

## CHAPTER THREE

# OLD IRANIAN

*Prods Oktor Skjærvø*

### 1 INTRODUCTION \*

#### 1.1 The Old Iranian languages

The Old Iranian languages known from texts are Old and Young Avestan and Old Persian. Comparative study of these three languages permits the reconstruction of proto-Iranian as a branch of the Indo-Iranian languages, an eastern branch of the Indo-European languages that may have been spoken in the area south and south-east of the Aral sea in the third millennium BCE, splitting into Iranian and Indo-Aryan some time before 2000 BCE. Geographical names contained in the *Young Avesta* confirm this location and also show that, by the time of the Achaemenids, the Avestan speakers had moved farther south as far as the Helmand valley in modern south Afghanistan (Skjærvø 1995: 163–66). See also section 1.4.

The Avestan texts contain no historical allusions, so they cannot be dated on such grounds, but Old Avestan (see below) is closely similar in grammar and vocabulary to the oldest Indic language as seen in the oldest parts of the Rigveda and should therefore probably be dated to about the same time. Similarly, Young Avestan must have been quite similar to Old Persian, which suggests it was spoken in the first half of the first millennium BCE.

Iranian tribes calling themselves Parswa and Mada are found in (north)western Iran from the ninth century BCE onward (see Waters 1999), but the extant Old Persian texts, written in a cuneiform script, are from the Achaemenid period (ca. 558–330 BCE; the texts date from between 522 and ca. 350 BCE). Thus, while the language of the Avesta probably belonged to tribes from north-eastern Iran, both history and linguistics indicate that Old Persian was the language spoken in southern (south-western) Iran.

Other Iranian languages, beside Old Persian and Avestan, were spoken in the first millennium before our era, about two of which we have some information:

Median was spoken in Western and Central Iran by the Medes, who ruled Western Iran ca. 700–ca. 558 BCE, and presumably used their language in official proclamations. Numerous non-Perside words in the Old Persian inscriptions are from a dialect that shared important phonological isoglosses with Avestan, rather than Old Persian, and are assumed to be from Median. Sometimes, both the Median and Old Persian forms of words are found.

Scythian (Saka) dialects were spoken by tribes in Central Asia.

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\* Marking reconstructed older forms with an asterisk (\*) has been dispensed with, as they will be easily recognisable as such by their orthography and by '<' (coming from) and non-reconstructed forms will be marked throughout (OAv., etc.). The asterisk has therefore been reserved for restored (and uncertain) forms. Note the convention '-S-' for the alternating *-h/-š/-s-*.

### 1.1.1 *The Old and Young Avesta, Old and Young Avestan*

The Avestan languages are known from the *Avesta*, the sacred book of the Zoroastrians (Mazdeans, Mazdayasnians), a collection of mostly ritual texts assumed to have been composed in the second and first millennia BCE. The texts were orally transmitted until committed to writing some time in the late Sasanian period (ca. 224–651 CE; see Skjærvø 1995, 2006; Kellens 1998). The extant Avestan texts represent only a part of the *Avesta* known at that time.

Avestan falls into two chronologically distinct layers: Old Avestan (OAv.) and Young Avestan (YAv.). Young Avestan represents a more developed form of the language than Old Avestan, especially in phonology, but also in morphology and syntax. Thus, Young Avestan is typologically closer to Old Persian (OPers.), and the simplest assumption is that these common developments had taken place before the Old Persian-speaking tribes migrated out of Central Asia at about the turn of the millennium (Skjærvø 2003–2004). Old Avestan and Young Avestan are apparently not simply different stages of the same language, as there are phonological and morphological isoglosses separating them (ibid.; de Vaan 2003: 5–10; Panaino 2007).

### 1.1.2 *The oral background of the Avestan text*

The extant text of the Avesta does not represent a text composed in writing in ancient times. Rather, it is a compilation of mainly ritual and a few didactic texts that had been transmitted orally for centuries and even millennia before being written down some time after ca. 600 CE, though not all, necessarily, at the same time. During this time, the texts had been, presumably, judging from what we know of oral poetry, first been composed and recomposed in memory and performance; then, at some time committed to memory so as not to be recomposed or changed in any way ('crystallised'). This happened, at different times, to both the Old Avestan and the Young Avestan corpora. Nevertheless, over time, the priests by necessity interfered with the text, both intentionally and unintentionally, as it was passed down through the generations and as the Iranians moved into new areas and maybe, even, changed dialects. What the situation was in the late sixth century, therefore, when it was decided to write the tradition down, we can only speculate about. It seems reasonable, however, to assume that the two principal texts, the liturgies of the *yasna* and the *videvdad sade* ceremonies, were well known by the priests among whom the alphabet was devised and so represent 'official' texts. The same may be the case of the principal texts recited at festivals to individual deities (the *yašt*s) and some others, but it is not reasonable to think that all the texts were present at the religious centres; some were probably remembered only in some places by some priests, who may then have been called in to perform what they remembered to the newly educated scribes.

The oral background of the Avestan texts suffices to explain the grammatical inconsistencies and (from our point of view) erroneous forms and uses. The ideas, common throughout the twentieth century, that the 'errors' were due to the 'authors' and 'late' composition, was based on the notion that oral literature could be evaluated in this respect like written literature (see Skjærvø 2005–2006, 2006b: 112–15). Note also that the suggestion that Old Avestan might in fact be later than Young Avestan, adducing the comparison with the use of Latin in Europe long after it was no longer a spoken language, is faulty, as Latin was learned from existing manuscripts and grammars.

The most important fact to keep in mind is that the priests who performed the texts no longer spoke the languages and that their understanding of them was that of the secondary traditions as recorded later in the Pahlavi texts.

As a result, on the one hand, the Old Avestan texts contain many elements that are clearly borrowed from or influenced by Young Avestan and, on the other hand, Young Avestan texts contain both elements that are imitations of Old Avestan ('pseudo-Old Avestan') and later features introduced by the scribes (including from local spoken languages). This makes it a challenge to determine which of the sound changes we observe in our extant manuscripts already belonged to the 'original' two languages and which ones were introduced during the oral and written transmission of the texts. It renders even more problematic attempts to identify additional linguistic stages between Old and Young Avestan (see Tremblay 2006).

Nevertheless, although it is not likely that the texts in every detail reflect a genuine spoken language, research has shown that, in spite of all the inconsistencies of the extant text and contrary to the common opinion of pre- Second World War European scholarship, it reflects a real linguistic system (Morgenstierne 1942).

### 1.1.3 *The Avestan alphabet*

Some time during the Sasanian period a phonetic alphabet was invented, which was used to write down the known Avestan texts to ensure their correct recitation, crucial to the success of the rituals in which they were used. The alphabet was based on the Middle Persian (Pahlavi) script, of which various stages and styles are known. It is usually assumed that the Avestan script was primarily based upon the common Pahlavi script as known from the extant manuscripts, with the addition of forms taken from the Psalter script (see, e.g. Hoffmann 1988). We have no guarantee, however, that the script seen in the extant manuscripts is identical with that of the first manuscripts. It is just as likely that the shape of the Avestan letters developed together with those of the Pahlavi letters, for instance.

What the principles were that governed the phonetic analysis of the spoken text we do not know for certain, but they were probably the same that applied to the learning of the text. Thus, it is possible that the priests simply assigned a sign to each of the sounds they had been taught to utter during recitation, e.g.: 'to speak this word you say the sound X' > 'to write this word you use the sign X'.

The oldest manuscripts of the *Avesta* are from the thirteenth–fourteenth centuries (*Vispered* ms. K7a: 1278?; *Yasna* mss. J2 and K5: 1323; *Videvdad* mss. K1: 1324, L4: 1323; *Xorde Avesta* ms. Jm4: 1352), and, from the evidence of the manuscript colophons and mistakes common to all the manuscripts of a text, all go back to single manuscripts for each part of the *Avesta* that were in existence around 1000 CE.

Most manuscripts of the *Avesta* are much later, however, and, for some parts of the text, the manuscript tradition does not go back beyond the sixteenth–eighteenth centuries. This means that text criticism in the Classical sense can only restore the readings of manuscripts no older than 1000 CE, but mostly later.

A serious desideratum is a study of individual manuscripts in order to determine the scope of scribal variations in paleography and orthography. Until this has been done, no definitive descriptive orthography, hence also phonology and morphology, of Avestan can be written. Current and earlier descriptions are all, to a large extent, based upon the orthography of K. F. Geldner's critical edition, which is the one most often referred to for

grammatical purposes. It is not a completely ‘critical’ edition, however, since the relative importance of the manuscripts was not clear to him during the publication (see his *Prolegomena*). The edition can therefore not (as is now widely recognized) be used directly as the basis for grammatical analysis.

This situation also renders theories about dialect features in Young Avestan doubtful, such as that of Schindler (1982), who interpreted the different treatments of final *-aŋh* (< Iir. *-ans*) in terms of dialects, and Hoffmann, who ascribed features such as *hu* > *x*<sup>v</sup> instead of *huu-* (Hoffmann and Forssmann 1996, §6.2) and *VβV* > *V<sub>u</sub>V* to an Arachotian dialect (ibid., §63cg).

#### 1.1.4 Stages of Avestan

We may represent the history of the Avestan texts after the proto-Iranian stage schematically as follows (cf. Hoffmann 1970, Skjærvø 1994, Kellens 1998, de Vaan 2002: 11–15; Tremblay 2006: 276–77):

- Mid-second millennium BCE: Composition of ritual texts constantly recomposed and linguistically updated in performance, the last direct evidence of which are the extant Old Avestan texts.
- End of second / early first millennium: Composition of texts, constantly linguistically updated, etc. which resulted in the Young Avestan texts.
- Late Old Avestan period: Crystallisation of a set of Old Avestan texts as unchangeable, but, probably, with the introduction of editorial changes then and/or later. These were the ‘five *Gāōās* of Zarathustra’, as they are called in the Young Avesta, plus the *Yasna Haptaŋhāti*, the sacrifice in seven sections.
- First half of first millennium(?): Crystallisation of the Young Avestan text (containing the *Old Avesta*) as unchangeable.
- Up to ca. 500 CE: Transmission of the entire immutable text with introduction of linguistic novelties and changes by the oral transmitters.
- 600+: Creation of a phonetically unambiguous alphabet, in which the entire known corpus was written down (to the extent it was deemed worthy?).
- Ca. 600 to thirteenth century: Written transmission of the text (copying of manuscripts), still probably influenced by the oral tradition, and oppression of the religion and its texts by the Arab conquerors, all of which contributed to deterioration of the text. Ca. 1000 CE there was only single manuscripts in existence of each part of the extant Avesta.

Another problem is the ‘canonisation’ of the corpus, that is, the process of selecting which texts were to be part of the sacred corpus. The concept, however, is based on the canonisation process of the Bible and may not have the same relevance for the Avestan texts.

#### 1.1.5 Old Persian

We do not know when or how the Old Persian-speaking tribes came from Central Asia to south-western Iran, where they are found in the historical period from the ninth century onward. The extant Old Persian texts all date from the sixth to the fourth century BCE. They are written in a cuneiform script, probably invented under Darius for the purpose of recording his deeds. The Old Persian language as we know it from the inscriptions

(sixth–fourth centuries) was already about to change to ‘proto-Middle Persian’, the predecessor of Middle Persian as known from the first century BCE on, as we can see from the late inscriptions, in which ‘wrong’ orthography, especially endings, are common (Skjærvø 1999: 158–61). It is therefore probable that Old Persian had already been spoken throughout most of the first half of the first millennium BCE and had been more or less contemporary with Young Avestan.

### *1.1.6 The Old Persian script*

The Old Persian script is a cuneiform script, but differs from all the neighboring script of the time in having a small set of signs.

Opinions vary about who invented and first used this script, but strong arguments have been adduced that Darius invented it for his Behistun (Bisotun) inscription (520 BCE). On the one hand, it has been shown that the Old Persian version of his ancestor Cyrus’s inscription is a later addition to the Akkadian and Elamite versions, and those attributed to his grand- and great-grandfathers Arsames and Ariaramnes are probably modern, less likely antique, forgeries (Schmitt 2007: 25–31). On the other hand, in §70 of the Behistun inscription, Darius appears to say that he was the first to write ‘in Aryan’.

Although the orthography is relatively consistent, there is no particular reason to think that an orthographic standard had been established (e.g. that of the Behistun inscription) that was supposed to be followed both under Darius and after him and against which modern scholars are entitled to judge diverging spellings to be errors. This is all the more true for late inscriptions, which were obviously written by scribes who no longer spoke ‘the King’s Old Persian’ (see Skjærvø 1999b: 158–61).

### *1.1.7 Old Iranian grammars*

As the extant Avestan text cannot be assumed to represent actually spoken languages, any description of the two Avestan languages based upon this text will also not be of actually spoken languages. Let us sum up:

- the ‘crystallized’ text probably represents a language no longer spoken by the current generation;
- the oral transmission took place over a large territory, and we do not know from which local traditions the extant texts have come to us, which may all have left their imprints on the text in the form of dialect features;
- the oral transmission went on for centuries, and we do not know to what extent phonological and grammatical features may reflect the languages of the transmitters, rather than the original languages;
- the oral transmitters, at some stage, grew increasingly unfamiliar with the (whole) ‘correct’ text and would substitute passages they knew in places they did not belong, upsetting the grammar and the context (and metre);
- inferior oral traditions influenced the written tradition and, probably, vice versa. The most serious consequence of this situation is, of course, that no complete phonemic analysis of the two Avestan languages is possible, since it is a concept presupposing the possibility of capturing an actual linguistic state.

It must always be kept in mind that ‘Avestan’ always means ‘the Avestan text as presented by the manuscripts’. One consequence is that ‘Old Avestan’ does not

necessarily imply that a form is thought to have been spoken by the original speakers; it can also be a form modified by Young Avestan speakers. For instance, it is not likely that Old Avestan had OAv. *ha'θiiā̄m* beside *ha'θīm* = YAv. 'true, real'; it is, in fact, more likely that the 'original' form, that spoken by the composers, was \**haθjam*.

As for Old Persian, two features need to be kept in mind:

1. the lateness of the language of the inscriptions in the history of Old Persian warns against forcing phonetic and grammatical forms too much into an Old Iranian mould; instead one should consider Old Persian as suspended, as it were, between the Old Iranian and the Middle Iranian language types;
2. the mixed-language type prevents us from grasping the genuine South-West Iranian phonological system.

## 1.2 The phonology of Indo-Iranian

The traditional reconstruction of late Indo-European phonemes, after the laryngeals  $H_2$  and  $H_3$  had colored  $e$  to  $a$  and  $o$  (etc.), is set out in Table 3.1.1. A number of changes distinguish Indo-Iranian from this reconstruction.

TABLE 3.1.1: LATE INDO-EUROPEAN PHONEMES

Vowels and diphthongs				Syllabic liquids, nasals			
<i>i</i>	<i>e ē</i>	<i>a ā</i>	<i>o ō</i>	<i>u</i>	(ə)	<i>ɾ ʎ</i>	<i>n m</i>
	<i>ei ēi</i>	<i>ai āi</i>	<i>oi ōi</i>				
	<i>eu ēu</i>	<i>au āu</i>	<i>ou ōu</i>				
Consonants							
Labials	<i>p</i>	<i>b</i>	<i>b<sup>h</sup></i>	<i>ɸ</i>	<i>m</i>		
Dentals	<i>t̥</i>	<i>d</i>	<i>d<sup>h</sup></i>	<i>l r</i>	<i>n</i>	<i>s (z)</i>	
Palatals	<i>k</i>	<i>ḡ</i>	<i>ḡ<sup>h</sup></i>	<i>j</i>			
Velars	<i>k</i>	<i>g</i>	<i>g<sup>h</sup></i>				
Labiovelars	<i>kɸ</i>	<i>g<sup>ɸ</sup></i>	<i>g<sup>ɸh</sup></i>				
Laryngeals	<i>H<sub>1</sub></i>	<i>H<sub>2</sub></i>	<i>H<sub>3</sub></i>				

### 1.2.1 Consonants

#### 1.2.1.1 Iir. Velars

The IE. labio-velars *k<sup>ɸ</sup> g<sup>ɸ</sup> g<sup>ɸh</sup>* merged with the velars into one series, *k g g<sup>h</sup>*.

#### 1.2.1.2 Iir. Affricates

The IE. palatals *ḱ ḡ ḡ<sup>h</sup>* became the palatal affricates *č j j<sup>h</sup>* [tʃ dʒ dʒ<sup>h</sup>].

The velars *k g g<sup>h</sup>* produced the allophones *k<sup>y</sup> g<sup>y</sup> g<sup>yh</sup>* before *i, i, e*, which developed into (post-)alveolar affricates *č j j<sup>h</sup>* [tʃ dʒ dʒ<sup>h</sup>]; when IE. *e, a, o* merged into Iir. *a*, the conditioned variants became phonemes.

#### 1.2.1.3 Iir. š ž

Iir. *š* and *ž* developed from various sources:

- IE. *s* (*z*) became *š* (*ž*) after *i* and *u*, *r* and *ʀ* (<*r* and *l* and their syllabic variants), *k* and *g*<sup>(h)</sup>, and *p* and *b*<sup>(h)</sup> (the ‘*ru(p)ki*’ rule); this rule also worked after an intervening *n*, e.g. acc. plur. *-insš*, *-unš*, *-rnš* (Av. *-īšš*, *-ūšš*, *-əʀ<sup>(h)</sup>šš*);
- The resulting *š* became voiced *ž* before voiced stops, but also before vowels, notably in prefixes and before enclitic particles (Ir. *duž-*, *niž-*; *yūž-am*).
- The IIr. palatal affricates *č j j<sup>h</sup>* [*tš*, *dž*, *dž<sup>h</sup>*] became *š* and *ž<sup>(h)</sup>* before dentals and, probably, after labials.
- *š* and *ž* developed in the IE. ‘thorn’ groups, ‘*k̂p*, *kp*’, etc. > IIr. *čš*, *jž*, *kš*, *g<sup>h</sup>ž* > Ir. *š*, *ž*, *xš*, *gž* (all Ind. *kš*).

#### 1.2.1.4 IIr. The laryngeals

The IE. laryngeal *H*<sub>2</sub> aspirated the (voiceless) stops before vowels (*pH*<sub>2</sub> > *p<sup>h</sup>*, *tH*<sub>2</sub> > *t<sup>h</sup>*, *kH*<sub>2</sub> > *k<sup>h</sup>*).

Between vowels, laryngeals left a hiatus (or some kind of glide) and, between consonants, it is thought, a *schwa*-like central vowel *ə*. They were lost after vowel before consonant with lengthening of the vowel (e.g. *eH* > *ē*).

#### 1.2.1.5 IIr. Liquids and nasals

*r* and *l* (and syllabic *l* and *r*) merged, though *l* was preserved sporadically in dialects, both Iranian and Indic.

The syllabic nasals *ŋ* and *ŋl* merged with *a* and *ŋH* and *ŋlH* before consonants with *ā*.

#### 1.2.2 Vowels

*o* in open syllable became *ā* (Brugmann’s Law). IIr. forms with *a* instead of *ā* are often caused by a laryngeal following the syllable-closing consonant, e.g. *sauu-aiia-* ‘revitalize’ < *čauHaja-* vs. *srāuu-aiia-* ‘recite, sing’ < *črāuaja-*.

*ē ā ō* and the corresponding diphthongs *ēi*, etc. merged into *ā* and *āi*, etc.

The IE. qualitative ablaut *e* ~ *o* was lost by this merger and only partly replaced by the quantitative ablaut *a* ~ *ā*. See also de Vaan 2003, §§30.2–3.

#### 1.2.3 Proto-Indo-Iranian phoneme inventory

In overview, the reconstructed phoneme inventory of proto-Indo-Iranian was as set out in Table 3.1.2:

#### 1.2.4 Ablaut

A distinctive feature of IE. inflection was the qualitative and quantitative ablaut, correlated with stress patterns. While in Indo-Iranian the qualitative ablaut was lost after the merger of *ā ē ō*, the quantitative ablaut was retained albeit modified by these various developments, and ensuing analogies. The basic vocalic ablaut grades were thus as in Table 3.1.3, but other forms are found, as well, especially in connection with lost laryngeals (examples below).

TABLE 3.1.2: PROTO-INDO-IRANIAN PHONEMES

Vowels and diphthongs		Syllabic liquids				
<i>i</i>	<i>ə</i>	<i>u</i>	<i>r</i>	<i>r̄</i>		
	<i>a</i>	<i>ā</i>				
	<i>ai</i>	<i>āi</i>				
	<i>au</i>	<i>āu</i>				
Consonants						
Labials	<i>p</i>	<i>b</i>	<i>b<sup>h</sup></i>	<i>u</i>	<i>m</i>	
Dentals	<i>t</i>	<i>d</i>	<i>d<sup>h</sup></i>	<i>r (l)</i>	<i>n</i>	<i>s (z)</i>
Palatals	<i>č [tš]</i>	<i>ǰ [dž]</i>	<i>ǰ<sup>h</sup></i>			
Palato-Alveolars	<i>č̣ [tṣ̌]</i>	<i>ǰ̣ [dẓ̌]</i>	<i>ǰ̣<sup>h</sup></i>	<i>i</i>		<i>š (ž)</i>
Velars	<i>k</i>	<i>g</i>	<i>g<sup>h</sup></i>			
Laryngeal	<i>H</i>					

TABLE 3.1.3: PROTO-INDO-IRANIAN ABLAUT

long:	<i>ā</i>	<i>āi</i>	<i>āu</i>	<i>ār</i>	<i>ān</i>	<i>ām</i>
full:	<i>a</i>	<i>ai</i>	<i>au</i>	<i>ar</i>	<i>an</i>	<i>am</i>
zero:		<i>i / i</i>	<i>i / u</i>	<i>r / r̄</i>	<i>n / a</i>	<i>m / a</i>

### 1.3 The phonology of Proto-Iranian

Proto-Iranian shows the following typical changes separating it from proto-Indic:

- Ilr. interconsonantal *ə* was lost in Iranian in all positions (with sporadic development, helped by analogy, of anaptyctic vowels in initial consonant groups; see Beekes 1981, Ravnæs 1981, Mayrhofer 1981, Pirart 1988);
- Ilr. *r̄H* became Ir. *ar* in most contexts, but sometimes *r* (Av. *ər*) (acc. to Cantera 2001, in labial context when unstressed);
- The voiced and aspirated voiced consonants merged: *b, b<sup>h</sup> > b; ǰ, ǰ<sup>h</sup> > ǰ*, etc;
- The new aspirated stops *p<sup>h</sup> t<sup>h</sup> k<sup>h</sup>* and unaspirated stops *p t k* before consonants were spirantised to *f θ x* (e.g. *kt > xt*);
- A sibilant developed in the clusters dental + dental: *t-t, d-d, d-dh > t<sup>s</sup>t, d<sup>s</sup>d*;
- Dentals were lost before *s/z, ś/ž, š/ẓ̌*, including in the sequences  $T_1^{s/\acute{s}}T_2 > S/\acute{S}T_2$ : *t<sup>s</sup>t, d<sup>s</sup>d > st, zd*, and *čt, ǰd [tšt, džd] > št, žd*. This rule also affected voiced aspirated clusters that resulted from ‘Bartholomae’s Law’ (see section 2.3.2.1 b);
- Geminates were simplified, including those resulting from assimilation (*s-s > s, z-z > z, s-č > s, ǰž > ž, d-n > n, p-b > b*, etc.);
- Most significantly, also for later vocalic modifications and changes, *s > h* except before stops and *n* (see section 2.1.2.2).

### 1.4 Early Iranian dialects

Proto-Iranian split into at least four distinct proto-Iranian dialect groups, characterised, among other things, by the developments of the palatal affricates *č, ǰ* and the groups *č, ǰ* and the groups *č<sup>u</sup>, ǰ<sup>u</sup>* (see Schmitt 1989: 27–28).



The two dialect groups unattested by texts are:

- *Old Northwest Iranian*, represented by the later Alanic dialects and modern Ossetic, in which initial  $p > f$  and internal  $r_i > l$ ;
- *Old Northeast Iranian*, represented by Middle Iranian Khotanese and modern Wakhi, in which  $č^u$  and  $ǰ^u$  were assimilated to  $ś$  and  $ž$ .

The two attested groups are:

- *Old Central Iranian*, represented by most of the remaining dialects, including Avestan and Median, in which  $č$  and  $ǰ$  merged with Ir.  $s$  and  $z$ , respectively, but  $č^u$  and  $ǰ^u$  became  $sp$  and  $zb$ ;
- *Old South-West (Perside) Iranian*, represented in historical times by the dialects of Pārsa/Fārs, including Old Persian, in which  $č$  and  $ǰ$  merged with Ir.  $θ$  and  $d$ , but  $č^u$  and  $ǰ^u$  with  $s$  and  $z$ . Other Perside developments: Ir.  $θ > š$  before  $i$  and  $n$  (Av. *hdθiia-*, OPers. *hašiya-* ‘real, true’; Av. *araθni-*, OPers. *arašni-* ‘ell’);
- Ir.  $θr$  and  $čr >$  a sibilant  $<ç>$  of uncertain nature that later merged with  $s$  (Av. *puθra-*, OPers. *puça-*, MPers. *pus* ‘son’; Av. *sraiiia-* ‘to lean’, OPers. *ničāraya-* ‘give back’).

There are numerous ‘Median’ forms in OPers., e.g. *asan-* ‘stone’ vs. OPers. *aθd'ga* ‘stone’, *aspa-* ‘horse’ vs. OPers. *asa-*. In some instances, the Elamite transcriptions reflect Perside forms not found in the inscriptions (see, e.g. Hinz 1973; cf. section 3.6.3.3). As a rule, the Elamite transcriptions of Old Persian names show the Perside form, while the Akkadian ones show the Median forms, e.g. *ciça'taxma-*, but Elam. *ti-iš-šá-an-tam-ma = \*tiçantama*, with  $č - ç > t - ç$  (cf. Greek *Tissaphernēs* < OPers. *\*čiça-farnah-*).

At this stage, the consonant phonemes of the four groups were presumably identical except for the palatal sibilants in proto-North-East Iranian, see Table 3.1.4..

TABLE 3.1.4: EARLY IRANIAN CONSONANT PHONEMES

Consonants						
Labials	<i>p</i>	<i>b</i>	<i>f</i>	<i>u</i>	<i>m</i>	
Dentals	<i>t</i>	<i>d</i>	<i>θ</i>	<i>r (l)</i>	<i>n</i>	<i>s z</i>
Palatals				<i>i</i>		[ <i>ś ž</i> NE-Ir.]
Palato-Alveolars	<i>č</i>	<i>ǰ</i>				<i>š ž</i>
Velars	<i>k</i>	<i>g</i>	<i>x</i>			
Pharyng.-Glott.		<i>'</i>	<i>h</i>			

## 1.5 Writing systems

### 1.5.1 The Avestan script

The Avestan alphabet contains ca. 55 letters (Table 3.1.5), some being, apparently, only scribal and/or local and chronological variants. Each letter is usually written separately, although ligatures like those of Pahlavi are also found. There are fairly distinct differences in ductus between older and later manuscripts and from scribe to scribe, but no paleographic study has yet been made to investigate chronological and geographical trends. See, for instance, the three different handwritings in manuscript L4 in the British Library, London, the original manuscript from 1323 and the fairly recent additions (L4a, b) currently available online at [avesta.ana.usal.es/cataloges.htm](http://avesta.ana.usal.es/cataloges.htm).



TABLE 3.1.6: THE OLD PERSIAN SYLLABARY

Cu		Ci		Cu		Cu		Ci		Cu	
𐎠	<a>	𐎡	<i>	𐎢	<u>	𐎣	<na>			𐎤	<nu>
𐎥	<ā>					𐎦	<pa>			𐎧	<ru>
𐎨	<ba>					𐎩	<ra>			𐎪	<ru>
𐎫	<ca>					𐎬	<sa>				
𐎭	<ca>					𐎮	<ša>				
𐎯	<ca>					𐎰	<ša>				
𐎱	<da>	𐎲	<di>	𐎳	<du>	𐎴	<ta>			𐎵	<tu>
𐎶	<fu>					𐎷	<ta>				
𐎸	<ga>					𐎹	<θa>				
𐎺	<ha>					𐎻	<va>	𐎼	<vi>		
𐎽	<ja>	𐎾	<ji>			𐎿	<xa>				
𐎿	<ka>			𐏀	<ku>	𐏁	<ya>				
𐏁	<la>					𐏂	<za>				
𐏃	<ma>	𐏄	<mi>	𐏅	<mu>	𐏆	<: >				

  

𐎮	<AM <sub>1</sub> > = Auramazdā	𐎰	<DH <sub>1</sub> > = dahayāuš	𐎴	<BG> = бага
𐎱	<AM <sub>2</sub> > = Auramazdā	𐎲	<DH <sub>2</sub> > = dahayāuš	𐎵	<BU> = būmiš
𐎽	<AMha> = Auramazdāha	𐎿	<XŠ> = xšāyaθiya		

exist: <Ca-i, Ci-i> and <Ca-u, Cu-u> (exceptionally <Ci> = *Ci*). Frequently, we find <-u-va> for *ū* (<pa-ru-u->, <pa-ru-u-va-> = *parū* ‘much’), <i-ya> beside <i> before consonant in *nīyašādayam* <na-i-ya-ša°> ‘I set down’ beside *nīšādayam* <na-i-ša°>, presumably reflecting the development of *-iya-* > *-ī-*.

Final *ī*, *-ai* and *-ū*, *-au* were written <-i-ya> and <-u-va>, but the final *-v* or *-y* could be omitted when followed by an enclitic word (*hau-maiy*, beside *hauv-maiy* ‘he . . . me’, *tayai-šaiy* ‘who . . . his’, etc.). Beside *-ava-* and *-aya-*, we also find *-auva* (*bava-* and *bauva-* ‘become’) and *-aiya* (*dāraya-* and *dāraiya-* ‘hold’).

After *h*, an *i* was usually not written (transcribed as *hq-*).

The syllabic *r* (transcribed as *ṛ*) was also spelled <ra>, e.g. *vazarka-* ‘big’ > Mod. Pers. *bozorg*, vs. *martiya-* > Mod. Pers. *mard*.

Logograms can take case endings (e.g. < XŠ-ha-ya-a > = *xšāyaθiya-hayā* ‘the king’s’, <DH<sub>1</sub>-na-a-ma > = *dahayū-nām* ‘of the lands’, <BU-ya-a > = *būmī-yā* ‘of the earth’). See also section 2.2.

## 2 PHONOLOGY

### 2.1 The phonology of Avestan

The Avestan languages share some important features that give them their characteristic look, different from Old Indic and Old Persian: raising, lowering, rounding, and nasalisation of vowels, anaptyxis; spirants, palatalisation and labialisation of consonants, nasalisation of intervocalic *h*.

Thus, Avestan phonology is very complex. The exact inventory of phonemes is unclear, as the number of phonetic realisations and morphophonological variants is very large, though all part of an internally consistent phonological system, in many respects similar to those of later East Iranian languages (Morgenstierne 1942).

In the following, the phonologies of Old and Young Avestan are described as they had evolved through many layers of historical and redactory processes down to the end of the Sasanian period, when at least some of the texts were first written down, and beyond, during the written transmission. They are therefore the artifacts of a learned tradition, and can not be assumed to reflect the actual phonological systems of the languages when they were spoken.

In view of the uncertainties regarding the shaping of the Avestan phonology, I have refrained from providing a reconstruction of their phonemic systems. For a recent attempt, see de Vaan 2003: 615–29. Instead, Tables 3.2.1–2 contain the basic vowels and consonants, some of which are conditioned variants, differing in Old and Young Avestan.

### 2.1.1 Vowel systems

The letters *ā ā̇, ə ē, o ō, e ē*, and nasalised *q*, reflect the development and partial phonemisation of allophonic variants mainly from the basic low pair *a ā*, the diphthongs *ai, āi* and *au, āu*, and *r*. See Table 3.2.1.

TABLE 3.2.1: AVESTAN VOWELS

	Front	Central	Back, rounded	Nasal
High	<i>i ī</i>		<i>u ū</i>	<i>ī &lt;iiā, ī&gt; ū &lt;uuā&gt;</i>
Mid	<i>e ē</i>	<i>ə ē</i>	<i>o ō</i>	<i>ē &lt;ēā&gt;</i>
Low		<i>a ā</i>	<i>ā̇</i>	<i>q, q̄ &lt;q&gt;</i>
Syllabic <i>r</i>		<i>r &lt;ərə&gt;</i>		<i>r̄ &lt;ər̄q&gt;</i>
Diphthongs:				
	<i>aē</i>	<i>āi</i>	<i>ōi</i>	
	<i>ao, aō</i>	<i>āu</i>	<i>āu</i>	

#### 2.1.1.1 Notes on the vowels

For details on the Avestan vowels, see now de Vaan 2003.

All Avestan vowels except *e* and *ē* are found in initial position, but *o* and *ō* only in YAv. *oīm*, *ōiium*, etc. <*aiyam* ‘one’ and in a few words where *ōi-* is from *ui-* (e.g. *ōifra-* for *vifra-*?).

All vowels are also found in anaptyxis and epenthesis, particularly *ə*, *i*, and *u*, and may form secondary diphthongs.

#### 2.1.1.2 Vocalic length

Old Avestan probably maintained the length opposition longest in the high row, at least in part: *-iš*, *-uš* vs. *-īš*, *-ūš* (see de Vaan 2003: §§9, 13).

In Young Avestan (and to some extent in OAv.), the distribution of short and long *iī* and *uū* may be conditioned by phonetic context (not etymology); it may also be a matter of scribal preferences and local practice at different times. There is therefore no distinction between proto-Iranian short and long *i* and *u* and Avestan contraction products, *-im*, *-ūm*, and *-iām* all > *-iml-ūm* and *-um*, *-ūm*, and *-uām* all > *-uml-ūm* (ibid., §§8, 12).

The exchange of vowel length, *a/ā*, *i/ī*, *u/ū* is common and may, at least in some instances, be caused by shifts of accent (ibid., §30.1.1).

In final position, length opposition is neutralised in all three Old Iranian languages. Old Avestan final vowels are long; Young Avestan final vowels in monosyllables are long; in polysyllabic words, we have *-a*, *-i*, *-u*, *-e* and *-ə* (epenthetic), but *-ō*, *-ā*, and *-ō* (= OAv. *-ōiŋg*) and, rarely, *-ū* (< *-uuō*).  
 Short *ə* (in OAv. also written *ə*) is an allophone of *a* before nasals (*həŋti* ‘they are’) and before *uu* followed by *ilī*. Long *ā* is a phoneme in Young Avestan, since it is a distinctive ending: *-ā* with allomorph *-a*.

It is not known whether the length in *ā* was originally phonemic. The short < *ā* > is used in only one known manuscript to spell *a* before *ŋ* (see Hoffmann and Narten 1989: 31; de Vaan 2003, § 18). Here *ā* will be used for *ā*.

### 2.1.1.3 Diphthongs

*ai*. The diphthongs *aē* and *ōi* are partly in complementary distribution. YAv. *ōi* is preferred before consonant clusters, except *s* or *š* plus one consonant (Fortson 1996), whereas OAv. *ōi* is apparently also found before *s* and *š* < *ss* and *šš*: *dōišī* ‘you show’ < *daič-ši* (strongly doubted by de Vaan 2003: 352 n. 436). For Ir. *aij*, OAv. has *ōii* (*ōi*.) and *aii*; YAv. *aii* (e.g. OAv. *x<sup>3</sup>āθrōi.ā*, YAv. *x<sup>3</sup>āθrāiia* ‘in comfort’). Final *ai* in monosyllables became OAv. *ōi*, YAv. *-ē* (but *γōi*); in polysyllables, it became OAv. *ōi* and *-īē* (= *-ē* with preceding palatalisation), YAv. *-īe*. Before enclitics, both OAv. and YAv. have *-aē°*.

*au-*. OAv. prefers *āu*, YAv. *ao* (many mss. *aō*), but also *āu* in imitation(?) of OAv. (de Vaan 2003, § 16.1). In final position, *-au* became *\*-aō*, YAv. *-uuō* (also OAv.) but *-ao°* before enclitic (e.g. YAv. *drao-ca* ‘and in tree’; see Skjærvø, 2005a). The apparent diphthongs *au*, *ou*, and *aou* are the result of labialisation of *a* (see section 2.3.2.4a).

The Ilr. and Av. diphthongs *āi*, *āu* are indistinguishable in the script from Av. *ā* + epenthetic *i*, *u*.

### 2.1.1.4 Hiatus

In Old Avestan, long vowels and diphthongs resulting from laryngeal loss remain disyllabic: *ā*, *ā* < *a<sup>h</sup>ā*; *ā* < *a<sup>h</sup>ā*, *a<sup>h</sup>ō*; *-qm* < *-a<sup>h</sup>am* (e.g. plur. gen., opt. 1s); *aē*, *ōi* < *a<sup>h</sup>i*; *āi* < *a<sup>h</sup>ai*.

### 2.1.1.5 Ilr. *r*

The Ilr. syllabic *r* shows up in the later Ir. languages as *r* preceded by a vowel that varies according to the phonetic contexts, e.g. *ir*, *ur* (de Vaan 2003, §24). Avestan usually has *ər* followed by an anaptyctic *ə*, but *rš* after *t* (OAv. *ātrēm*), and sporadically elsewhere. Young Avestan has *arš* for OAv. *ər<sup>3</sup>š*.

### 2.1.1.6 Nasalised vowels

All vowels could at some stage be nasalised. Thus, *q* is a realisation of *an* and *ān* before spirants: *zqθβa-*, and sibilants: *vqs* < *vāns-t*, and of long *ā* before *n* or *m*: *nqma*, *nāma*.

The two signs for nasalised *q* may originally have denoted nasalised *ā* vs. nasalised *ā*; thus final *-ā* < *-aiŋh* may originally have alternated with *-ā* rather than with *-q*.

In Old Avestan, the spellings *iiq(n)* and *uuq* before *m* may represent nasalised *i*: *friiq(n)mahī* ‘we make (you) friendly’[?] < *fri-n-mahi*; and *u*: *huuqmahi°* ‘we press’ < *hu-n-mahi*. Similarly, the nasalised *ā* is written *āq* in OAv. *māq* (Y. 28.4). Nasalised *i* and *q* are written (or became) *ī* and *ū* before sibilant. In Old and Young Avestan, nasalised *r* is written *ərq* before *š* and *ž*.

## 2.1.2 Consonant systems

Old and Young Avestan, judging from the orthography, had the consonants set out in Table 3.2.2, which include phonemes and allophones with differing distribution in Old and Young Avestan. Note also that the convention ‘X became Old Avestan/Young Avestan Y’ is subject to the above caveats.

TABLE 3.2.2: AVESTAN CONSONANTS

	Stops/Affr.	Fricatives	Contin.	Nasals	Sibilants
Bi-labials	<i>p b</i>	<i>β</i>	<i>u</i>	<i>(<sup>h</sup>m) m</i>	
Labio-dentals		<i>f v</i>			
Dentals	<i>t d</i>	<i>θ δ</i>		<i>n</i>	<i>s z</i>
Alveolar			<i>(<sup>h</sup>r) r</i>		
Alveo-pal.	<i>č ĵ</i>				<i>š ž</i>
Retroflex (?)					<i>ṣ̌ ẓ̌</i>
Palatals		<i>y(?)</i>	<i>i</i>	<i>(<sup>h</sup>i)</i>	<i>ṣ̌</i>
Velars	<i>k g</i>	<i>x γ</i>		<i>ŋ<sup>h</sup> ŋ</i>	
Palato-velars		<i>č̣</i>		<i>ŋ<sup>h</sup> ŋ̣</i>	
Labio-velars		<i>x<sup>v</sup></i>		<i>ŋ<sup>h</sup> ŋ<sup>v</sup></i>	
Glottals	<i>(ʔ)</i>	<i>h</i>			

## 2.1.2.1 Notes on the consonants

*ɮ*. The letter *ɮ* probably represented an unreleased stop and was an allophone of /t/ and /d/ in final and pre-consonantal position: YAv. *janaɮ* ‘he killed’, OYAv. *ɮkaēša-* ‘\*guidance’, YAv. *ɮbaēšah-* ‘hostility’. In the manuscripts, *ɮ* alternates with *δ*: *aɮka-* and *aδka-* ‘coat’, *druuaɮbiiō* and *druuaδbiiō* < *druuant-* ‘possessed by the Lie’. – The rare final *-g<sup>ɮ</sup>* is etymological in OAv. *pa<sup>t</sup>tiiaog<sup>ɮ</sup>* ‘answering’, *yaog<sup>ɮ</sup>* < *yuj-* ‘to harness’, but may be a graphic representation of an unreleased final *-g* in YAv. *-hāg<sup>ɮ</sup>* ‘following’; *paraɮg<sup>ɮ</sup>* ‘away from’ (Hoffmann and Forssman 1996: 99).

*r* had a (pre)aspirated/unvoiced(?) allophone before *p*, *k*, *t*, apparently limited to stressed syllables in proto-Avestan (see section 2.3.4). Before *k*, *p*, it is written *hr*, while proto-Av. *\*hrt* became *ṣ̌* (see section 2.1.2.3). In final position *-r* takes a supporting vowel (*-r<sup>h</sup>*).

*n* was realised as a nasal of uncertain nature written *ni* or *n* before consonants (in editions, usually normalised as *ñ*), except *i* and *u*. Before *i*, possibly also *u*, *n* was palatalised to *ñ* (*ñ*), but the letter <*ñ*> is not consistently used in the manuscripts, e.g. *añiiō* ‘other’, *aniiō*, or *ainiiō*, *nitəmō* ‘nethermost’ or *ñitəmō*; in this description I am adopting the convention *anii-* but *aini-*.

*h* > *ŋ* (*h*). Intervocalic *h* and its palatalised and labialised allophones are usually preceded by their class nasal: *-āhā-* > *-āŋhā-*, *-āhiā-* > *-āñhā-*, and *-āhuā-* > *-āŋ<sup>v</sup>hā-*; similarly, *-hr* > *-aŋ(h)r-* (usually normalised as *-aŋr-*, but mss. often *-aŋhr-*). These clusters are indistinguishable from IIr. *ns* clusters: OAv. *māñhī* < *mansi* ‘I have thought’. The nasalisation is omitted in a not well-defined subset of words with internal *h*, often before *i*: loc. sing. *manahi* ‘in thought’, less often before *u*: neut. *vohu* (see section 2.3.1.2). – A similar nasalisation in Old Persian is suggested by Elam. < pat-ti-ya-man-ya-a > for OPers. *patiyāvahayaiy* (DB 1.55), but other explanations of the Elamite form are possible, and, if the nasalisation is genuine, the form may be ‘Avestan’ (cf. Av. *auuañhe* ‘to (my) aid’; see Skjærvø 1999a: 18–19).

$x^v$  vs. *huu* and  $-ŋ^v h-$ . The Avestan labialised velar fricative  $x^v$  is also an allophone of *h<sub>u</sub>*, alternating with *huu* and the labialised velar aspirated nasal  $ŋ^v h$ .

Initial *h<sub>u</sub>*- and *huu*- both became  $x^v$ - or *huu*-: Av.  $x^v afna-$  ‘sleep’ (<*h<sub>u</sub>a-*) and Av.  $x^v ā0ra-$  ‘good breathing space, comfort’ (<*hu-ā°*), but *huuaršta-* ‘well-done’ (<*hu-<sub>u</sub>a°*); OAv. *huuar<sup>s</sup>* ‘sun’, gen.  $x^v ēŋg$ , YAv. *hū* (all disyllabic).

Medial  $-h(u)u-$  became OAv.  $-x^v-$ , but YAv.  $-ŋ^v h-$ : OAv. *nəmax<sup>v</sup> d<sup>t</sup>tī-* ‘containing homage’, YAv. *baodaŋ<sup>v</sup> h<sup>a</sup>tī-* ‘conscious’; remained: OAv. dat. sing. *ahuiiē* ‘for the (new) existence’ (<*ahuuai*), YAv. *aŋ<sup>v</sup> he*; or became OAv.  $-ŋhuu-$ , YAv.  $-ŋ<sup>v</sup> h-$ : OAv. *aojōŋhuuąnt-*, YAv. *aojaŋ<sup>v</sup> hant-* ‘strong’. – In Young Avestan, the only examples of intervocalic  $x^v$  are *kax<sup>v</sup> arəda-* ‘sorcerer’ (cf. OInd. *kākhorda*), fem. *kax<sup>v</sup> ar<sup>v</sup> dī-*, and the country name *harax<sup>v</sup> tī-* ‘Arachosia’.

$x$  vs. *hii* and *ijh*. The Avestan palatalised velar fricative  $x$  is an allophone of *h<sub>i</sub>*, alternating with *hii* and the palatalised velar aspirated nasal *ijh*: initially and medially,  $x$  is common in Old Avestan, but rare in Young Avestan: OAv. 3s opt. *xiiāt*, YAv. *hiiāt* ‘may he be’, OAv. gen. sing. fem. *axiiā*, YAv. *ajhā* ‘her’; OAv. *vaxiiā*, YAv. *vajhā* ‘better things’; YAv. *xiiāona-* (ethnic); *daxiiuąm*, gen. plur. of *dajhu-* ‘land’. OAv.  $-xii-$  alternates with  $-hii-$  (perhaps a pre-stress variants, see below): OAv. gen. sing. *ašahiā* vs. *ašaxiiā-cā* (cf. YAv. *ašajhā-cā*).

### 2.1.2.2 Sibilants

The sibilants *s* and *z* are common before stops: *spaiia-* ‘throw’, *zbaiia-* ‘invoke’ (< $é^u$ ,  $ǰ^h$ ), *daste* ‘is given’, *dazde* ‘is placed’, and nasals: *snaēžza-* ‘to snow’, *vasna-* ‘exchange value, price’, *asman-* ‘sky, stone’; *s* is occasionally found before other consonants and in final position (Tremblay 1999), where it is the result of dental assimilation: OAv. *dasuuā* < *dad-sua*, nom. of *t*-stems:  $°tās$  <  $°-tāt-s$ , OAv. *stavas* ‘praising’ < *stauąnt-s*; OYAv.  $šs$  ‘was’ <  $šs-t$ .

### 2.1.2.3 ‘Shibilants’

The three sibilants  $š$   $šs$   $š$  had merged into one sound [š] by the time of our earliest manuscripts, but must originally have been separate:

- $š$  = [š] with the voiced allophone  $ž$  (*duš-* vs. *duž-*);
- $šs$ , written  $šš$ ,  $ššii$  must have been a palatal(ised) sibilant resulting from the palatalisation of  $č$  [tš] before *i*: *čīāti-* > Av.  $š(ii)ā<sup>t</sup>i-$  ‘joy’, OPers. *šiyāti-* (cf. Sogd. *šāt*, but Khot. *tsāta-* [ts<sup>h</sup>āda-] ‘rich’). The corresponding voiced sound has no letter in the alphabet and probably merged with  $ž$ : YAv. *družā-* (OAv. *drujiia-* ‘to lie’); *aži-* ‘dragon’ for *aži-* (OInd. *ahi-*);
- $š$  (<  $^hrt$ , see section 2.1.2.1) may originally have been a rhotacised alveolar sibilant, e.g. Av. *mašiiā-* ‘(mortal) man’ (rendered in Pahl. as *mašī*) or, perhaps, a retroflex or lateral affricate or flap (cf. Pahl. *mahlī*), but later a retroflex sibilant.

### 2.1.2.4 Distribution

Most consonants are found in initial position before vowel; exceptions include the voiced fricatives (and probably *f*), the velar nasals (*ŋ ij ŋ<sup>v</sup>*), and  $š$ .

In final position, we find *m* and *n*, *r*, the dental *t*, and the sibilants *s* and  $š$ . Final  $-s$  is also found in sandhi (see section 2.3.3). The consonants *r* and *s* (in *sandhi*) take  $ə$  as a supporting vowel as finals (e.g. *dātar<sup>v</sup>* ‘O creator!’, *kas<sup>v</sup> tē* ‘who for you?’).

## 2.2 The phonology of Old Persian

The Old Persian orthography does not express all the phonemic features of the language, as evidenced by transcriptions into other languages of the time and by comparison with Avestan and Middle and Modern Persian.

### 2.2.1 The vowels $\bar{a}$ , $\bar{i}$ , $\bar{u}$

In Old Persian, vowel length is expressed explicitly only in the case of non-initial  $\bar{a}$  < Ca-a>; in initial position, <a> spells *a-* and  $\bar{a}$ -. In final position, the distribution of *-a* and  $\bar{a}$  is historically based; OPers. *-a* < Ir. *-aC* (*-ah*, *-at*, *-an*); OPers.  $\bar{a}$  < Ir. *-a*,  $\bar{a}$ ,  $\bar{a}C$ . The quantity of final  $\bar{i}$  and  $\bar{u}$  cannot be determined (see section 1.1.6).

The Iranian diphthongs *ai* and *au* were probably monophthongised to  $\bar{e}$  and  $\bar{o}$  sometime during the Achaemenid period. Thus, the Akkadian, Elamite, and Greek transcriptions show little if any trace of diphthongs (e.g. *haumavarga-*, Elam. <u-mu-mar-ka>, Akk. <ú-mu-ur-ga-?>, Greek *amiúrgioi*, a tribe of Sakas/Scythians).

### 2.2.2 Consonants

The OPers. consonant system is set out in Table 3.2.3.

TABLE 3.2.3: OLD PERSIAN CONSONANTS

	Stops/Affric.	Fricat.	Contin.	Nasals	Sibilants
Labials	<i>p b</i>	<i>f</i>	<i>v(u)</i>	<i>m</i>	
Dentals	<i>t d</i>	$\emptyset$	<i>r, l</i>	<i>n</i>	<i>s, ç z</i>
Palatals	<i>č ĵ</i>	<i>y</i>	<i>(i)</i>		<i>š (ž?)</i>
Velars	<i>k g</i>	<i>x</i>			
Pharyngeal	<i>h</i>				

#### 2.2.2.1 Notes on the consonants

On  $\ç$  < Ir. *θr*, *čr*, see section 1.4.

Old Persian may have had a phoneme  $\check{z}$ , judging from *nijāyam* [nižāyam?] < \**niš-āyam* ‘I went out’, though it may be simpler to assign [ž] to the phoneme /j/ and assume that it was pronounced [dž] as written. Alternatively, OPers. <j> was actually pronounced [ž], and there may have been no phoneme /j/.

Elamite, Akkadian, and other transcriptions attest to etymological, but unwritten sounds, e.g. preconsonantic *n*: < ba-da-ka-> for *ba'daka* ‘bondsman’, cf. MPers. *bandag*; *ciča'taxma-*, proper name, Elam. <zi-iš-šá-an-tak-ma>, Akk. <ši-it-ra-an-tah-ma> (for Median *ciOrantaxma*); sequence <sup>h</sup>*u*: <sup>h</sup>*uwaipašiya* ‘self’, Av. *x'aēpa'θiia-*, MPers. *xwēbaš*. In some cases, the various transcriptions are inconclusive, e.g. *a<sup>h</sup>uramazdā*, Av. *ahura-mazdā-* (YH.), Elam. <u-ra-maš-da>, Akk. <ú-ra-ma-az-da, a-hu-ru-ma-az-da-?>, Greek *ōromasdēs*, MPers. *Ohrmazd*, *Hormezd*. Before *m*, *h* could be written or omitted (e.g. *a<sup>h</sup>miy* and *ahmiy* ‘I am’). Note also morphophonological variation such as pres. *ha<sup>h</sup>-taxša-* ‘be diligent’, imperf. *ham-a-taxša-*.

In final position, the only allowed (written) consonants (other than *y* and *v*) are *m* and  $\check{s}$ , perhaps also *s*. The spread of  $\check{s}$  as the ending of the 3s and 3p in *akunau-š* ‘he



did/made' (Av. *akər<sup>3</sup>nao-t*) and similar forms, however, indicates that the corresponding forms of *a*-stems in fact had no consonantal ending (see Allegri and Panaino 1995).

There appear to be the same kind of restrictions on initial and internal consonants as in Avestan, and the same kind of groups are found (e.g. *xšn*: initial and intervocalic). There are no examples of two-consonant groups in final position, and forms such as Av. *āfš* 'water' nom. sing. may have been transferred to the *i*-declension (*āpī[š]-šim* (?) 'the water . . . him', beside athematic inst.-abl. plur. *abiš* < *ap-biš*).

### 2.2.3 Late Old Persian

The inscriptions from Artaxerxes II (404–359) on are written in what is clearly a post-Old Persian/proto-Middle-Persian stage of the language (see Schmitt 1999: 59–118; Skjærvø 1999b [2002]: 158–61). Those from Artaxerxes I and Darius II are less clear; they are written in a late-Old Persian form, as seen from the thematic forms such as *dārayavaušahayā* and some grammatical constructions, but they are too short and formulaic to tell us much.

Among the (orthographic-)phonetic peculiarities of the post-Old Persian stage note (see Schmitt 1999): <Cy> for <Ci>: *nayāka-*, *abayapara*; use of *y* or *iy* to write long *ē*: *paradaydām* for *pardēd*<sup>(?)</sup> (MPers. *pālēz*); contraction of *iya* > *ī* in *martihayā* (A<sup>3</sup>?); *st* for *št* in *nistāya*; loss of final consonants and their preceding vowels in endings, as evidenced by the indiscriminate use of short and long vowels and omission of final *m*.

## 2.3 The morphophonology of Avestan and Old Persian

There are several kinds of synchronic alternations in Old Iranian: those inherited from earlier stages of the languages; those due to historical developments; those due to analogy; and, for Old Persian, those due to the existence of Median beside Old Persian forms.

### 2.3.1 Vowels

Most of the alternations in the vowels derive from the conditioned variants of *a* and *ā* before *h* and nasals and *i*/*ī* and *u*/*ū*. For details, see de Vaan 2003, Chapter 6.

#### 2.3.1.1 Centralising of *a*, *ā* > *ə* (*ē*)

*ah* > *ə* (*ē*). Ir. *h* caused centralising of a preceding *a*: OAv. *amēhmaidī* 'we have thought'; *vacē* 'speech' (but mostly *-ō* reintroduced from YA<sup>v</sup>?).

In Young Avestan, the *a* remained in initial and medial position (reintroduced into the OAv. text: *ahmat* 'us'), and final *-ah* became *-ō* (occasionally *ē*: *nəmē* 'homage'); in sandhi, the *a* reappears: *-a-s<sup>o</sup>*.

*aN* > *əN*. Short *a* was centralised before nasal, in more positions in Old than in Young Avestan; – initial: OAv. *ēnə'tī* 'no going', *ēmauuaṇt-* 'powerful' (YA<sup>v</sup>., *a'niti*, *amauuṇt-*); in final: OYA<sup>v</sup>. *-ēm*, *-ēn*.

Final *-an-h* > Ir. *-aṇh*. In Old Avestan, this became *-ēṇg*, notably in the thematic acc. plur. *daēuu-ēṇg* 'old gods' and the *n*-stem gen. sing. *x<sup>v</sup>-ēṇg* 'sun' (< *huu-aṇh*). In Young Avestan, it probably became nasalised *-ē̃* which developed variously to *-ē* and *-q*: acc. pl. *yazat-ē* 'gods', *aēsm-ṇ* 'firewood', gen. sing. *bar<sup>v</sup>sm-q* 'barsom'; final *-uē* in turn

became (*uu*)*ū*; acc. plur. *daēuu-ū* (*daēū*), gen. sing. *hū* (<*huu-ū*), etc. (see also Hoffmann 1970; de Vaan 2003: 492–93).

Final *-āh* > *ā*. Long *ā* became rounded long *ā* before *h* in final: *-āh* > *-ā*; the *ā* remains in sandhi: *-ā-s°*.

*āN* > *āN*. Long *ā* was centralised to *ā* before nasal in a few Old Avestan words: *xiiēm* ‘may I be’ and *strēm*, gen. pl. of *star-* ‘star’ (both disyllabic < *-a’am*). In both Old and Young Avestan, *āN* alternates with *-qN* in the manuscripts.

*au-* > *əuu-*. Ir. *au* became *əuu* sporadically in initial position: OAv. *ə.vaocaŋ* ‘he has said’, YAv. *əuuər°z°* ‘not producing’; and when followed by *ilī*, OAv. *kəuuitāt-* ‘the word/title of *kauui*’, YAv. *səuišta-* ‘richest in life-giving strength’, *huuəŋhəuuim* ‘\*comfort’ (<*huuəŋhəuuim*).

### 2.3.1.2 Rounding of *a*, *ā* > *ā* or *ō*

*a + u*. YAv. *a* became *o* before (primary or secondary) (*u*)*ū* (*uu*) in the following syllable, regularly before *r*: *po<sup>o</sup>ru-* ‘much’ < *paru*, *po<sup>o</sup>ruua-* ‘earlier’ < *paruuā-*, also when the *u* was the result of contraction: *po<sup>o</sup>rum* < *paruuam* (see Kellens 1986), sporadically elsewhere: OYAv. *vohū* ‘good’ (but *vanhu-*), *vohunī-* ‘blood’, YAv. *moγu°* ‘\*Magian’.

*a* in labial context. Change of *a* > *ā* or *ō* (also *ā* > *ō*) is found in Old Avestan, sporadically in Young Avestan, when *a* is in multiple labial context: *apō mā* vs. *apā*; YAv. dat. plur. *“ruuō<sup>i</sup>biiō* < *uruuan-* ‘soul’; dat. sing. *māuu<sup>i</sup>tia* ‘for me’ (OAv *ma<sup>i</sup>biiā*); note also *dəb<sup>o</sup>nao-* ‘deceive’ (2 syllables; OInd. *dabhno-*), *duž<sup>o</sup>z<sup>o</sup>bā* ‘making bad invocations’ < *duž-zbāh-* (<*-juā-*). In Young Avestan, final *-uuō* for *-uua* is found in a few cases, e.g. instr. sing. *bāzuuō* ‘arm’. OAv. *hōiθōi* < *haēθa-* ‘\*cordwork’, with *ōi* for *aē*, may be the result of assimilation.

*ā + u*. Labial umlaut of *ā* is found especially in Old Avestan when followed by *ū* (*u*) in the next syllable: *u-* stems: *jiiōtūm* < *jiiātu-* ‘\*livelihood’.

*a + r*. The sequence *-a + r-* (*-a + r°*) in derivatives of *fra-ər°* ‘move forth’ gave OYAv. *-ər°*: *frēr<sup>o</sup>tōi* ‘moving forth’, *frēr<sup>o</sup>nao-* ‘send on its way’; the OAv. abl. sing. *frēr<sup>o</sup>tōis* ‘from moving forth’ may show assimilation.

#### 2.3.1.2a Old Avestan initial *ā* > *a-lā-*

In several words with initial *ā* caused by one of the above processes, the original *a-lā-* were reintroduced: *ā<sup>o</sup>ādū* for *\*ādū* < *\*ādu* ‘?’ by *u*-umlaut; *ā<sup>o</sup>nū* for *anu* ‘along’, centralised before nasal or by *u*-umlaut; *ā<sup>o</sup>ŋhā* < *āhā* instr. sing. of *āh-* ‘mouth’, centralised before nasal or before *h*; *ā<sup>o</sup>ā* < *auua* ‘down’, by labial assimilation.

### 2.3.1.3 Raising of *a*, *ā* > *e*

*a* and *ā* can be raised (fronted) when preceded by *i* and followed by palatal or palatalised sounds.

*ia* became *ye-*, *-iie-*, *-iē* (< *-ai*):

- before palatal consonant: OYAv. *iōiejah-* < *ōijajah-* ‘danger’;
- before palatalised consonant: OYAv. *yezī* < *iazī* ‘for if’; – OAv. fem. sing. *yezuuī* ‘young’ < *iazīyī-*; – YAv. inf. ending *-iie<sup>i</sup>δiiāi* < *-ia-dīāi*; – *frāiieze* < *-iazīē* < *-iazai* ‘I sacrifice’; – OAv. loc. sing. *yesnē* < *iasn<sup>i</sup>e* (<*iasn<sup>o</sup>i*), Av. *yesniia-* < *yasn<sup>i</sup>iia-* ‘worthy of sacrifices (*yasna-*)’; – comp. fem. sing. *-iiehī* < *-iiahī-*; – 2nd and 3d sing. pres. ind. act./mid. *-iiehīle* < *-iiahīlē* and *-iie<sup>i</sup>til-iiete* < *-iatilīē*, *-iiejhē* < *iahīa* and *iahai*: Av. gen. sing. *yejrhē* < *iahīa* ‘whose’, OAv. inf. *-iiejhē* < *-iahai*;

- in final after *h, r, s* in some words: *ahe* ‘his’ < *ahīa* (also gen. sing. ending *-ahe*); *dre* ‘Aryans’ < *arīa*; *nase* ‘perish!’ < *nasīa*;
- *īāN* became *īeN* when followed by *i, ī, or -īē*: 1s pres. ind. act. *-iiemi* < *īāmi* subj. *-iieni* < *-īāni*, mid. *-iiene* < *-īānīē* (< *-īānai*).

#### 2.3.1.4 Combined centralising and raising and rounding of *a*

*a > ə > i*. After palatals, *ə* before nasal further became *i* in Young Avestan, sporadically in Old Avestan:

- after the palatals *c j* (but *a* was sometimes restored): OAv. *hacēnā* ‘company’ (instr. sing.), beside OYAv. *hacīntē* ‘they follow’, YAv. *raocana-* ‘window’ vs. *raocinauuant-* ‘\*bright’;
- *īaN* and *ūaN* regularly became OAv. *īēN*, *ūēN* or *īiN*, *ūīN* (the *a* occasionally remains), YAv. *īaN* or *īiN*, *ūiN*: OAv. *yām*, YAv. *yim* ‘whom’; OAv. nom.-acc. dual *yāmā* ‘twins’, YAv. *yima-* ‘Yima’ (but OAv. *yimas-cī* ‘also Yima’); OAv. *driiēmā*, YAv. *driiaman-* ‘Airriaman’; YAv. *po<sup>o</sup>rum* < *parūyam* ‘before, in front’; – in final syllable, Old Avestan often preserves the *ā* (*yām*, *-iiēm*; always *-iiēn*, *yēng*, *-iiēng*; *-uuēng*), but contraction of *īam > īm* is frequent: OAv. *aniiēm* ‘other’, YAv. *a<sup>o</sup>nim*; YAv. *haxāim* (< *-ājam*) ‘companion’; OAv. *hā<sup>o</sup>θiiēm* and *hā<sup>o</sup>θīm* ‘true, real’, YAv. *hā<sup>o</sup>θim*. Contraction to *-ūm* is found only in the 2nd plur. mid. ending *-dūm*.

*īaN* and *ūaN* after vowels: Young Avestan regularly has contraction, Old Avestan sporadically: *aīiN > aēN*, *āīiN > āiN*, *ūīiN > īN* (*iN*): OAv. *aīiēm* ‘this one’, YAv. *aēm*, 3rd plur. pres. inj. *-aēn* < *-aīan*. In the 3p opt. of *aīi-*stems, *-aīaīan* became *-aīiān*, occasionally preserved in the manuscripts, but most often replaced by *-aīiēn* (Skjærøen 1998: 191).

*aūuN > aoN* (*āuN*), *āūuN > āuN*, *uūuN > ūN* (*uN*): OAv. *kər<sup>o</sup>naon* (< *-aūan*) ‘they shall make’, YAv. *kərənāun*; YAv. *baon* ‘they became’; YAv. *adāuṇta* (< *dauua-*) ‘they spoke deceiving words’; OAv. *tuuēm* < *tuūam* ‘you’, YAv. *tum*; YAv. *bun* < *buūan* ‘they shall become’; YAv. *aū* < *aūaṇi* ‘them’.

The sequences *-aīum*, *-aīyam*, and *-aūyam* were simplified to YAv. *-aēum*, *-ōiium* (*-aoiium*), or *-aēm*: *vaiiu-* ‘Vaiiu’: acc. *vaēm*; *daēuua-*: acc. *daēum*, *vīdaēuua-* ‘discarding the old gods’: acc. *vīdōiium*; *haoīia-* ‘left’: *haoiium*, *hōiium*, *hōim*.

Combined labialisation and palatalisation is seen in YAv. *paō<sup>o</sup>rim* ‘first’ < *parūijam* (OAv. *pa<sup>o</sup>ruuīm*, trisyllabic).

The forms with *a* are frequently restored, especially in certain morphological categories; thus, YAv. 3p *-aīiēn* is more frequent than *-aēn*. OAv. *īant* before *ī, ē* (< *-ai*) remained or became *īēnt*, *uuant* remained. In Young Avestan, *īant* became *-iṇt-* (usually after *c, j*, sibilants, and *θ*), but was often retained, and its *a* could then be raised to *e*: *-iie<sup>o</sup>ṇti*, *-iieṇte*. YAv. *uant* became *-uṇt-*, but adjectives in *-ṇ<sup>o</sup>haṇt-* have analogical *-ṇ<sup>o</sup>haṇt-* beside regular *-ṇhuṇt-*.

In both Old and Young Avestan, diphthongs resulting from contraction of two syllables remain metrically disyllabic.

#### 2.3.1.5 Shortening of *ā* and lengthening of *a*

Ir. *ā* is shortened in Old Avestan under phonetic conditions, for rhythmic reasons, or as a result of stress movements: before *ii* or *uu*, in the gen. plur. ending *-anaṇt*; in the preverb *ā-*, in initial syllable when an enclitic was attached to the word, in antepenultimate or

earlier syllables or when the word was unaccented (?): *a-iiaghā* ‘you shall request’ < *ā-yā-*; *a-xštaŋ* ‘he will stand by’ < *ā-°*; *abiias-cā* ‘and to them’ < *ābiias°*; *uštānəm* vs. *uštānāi* < *uštāna-* ‘life breath’. It is shortened in Young Avestan in similar environments.

Ir. *a* is frequently lengthened in Old Avestan in initial syllables, occasionally in non-initial syllables: nom. plur. *kāuuaiias-cā* < *kauui-* ‘poet’; – after *iī*: 3rd sing. inj. mid. *maniīātā* ‘he thinks’ < *-jata-*; – after *ui*: instr. sing. *x’ēnuuātā* < *x’ēnuuant-* ‘containing the sun’; – sporadically elsewhere: gen. plur. *hātqm* < *hañt-* ‘being’.

Ir. *a* is lengthened in Young Avestan in initial syllables: *āiia* < *aia*: *xštāuuaiiō* vs. *xštāuiβiiō* < *xštāuii-* (ethnic name) and sporadically elsewhere.

For details, see de Vaan 2003, Chapter 2.

### 2.3.2 Consonants

#### 2.3.2.1 Assimilation and dissimilation

##### 2.3.2.1a Voice assimilation

The results of voice assimilation (voicing and devoicing) seen in Iranian occurred at various times and in various situations.

Devoicing affected unaspirated voiced stops before unvoiced sounds, mainly *t* and *s*, *š*: Av. *baxta-* ‘shared’ (< IIr. *b<sup>h</sup>ak-ta* < *b<sup>h</sup>ag-*); Av. *vista-* ‘found’ (< IIr. *uit<sup>h</sup>-ta-* < *vid-*), *baxša-* ‘distribute’ (< IIr. *b<sup>h</sup>akš-a* < *b<sup>h</sup>ag-*). On the analogical replacement of *bd*, etc. with *pt*, see section 2.3.2.1b.

Voicing was more common, unvoiced stops, affricates, and sibilants being assimilated to a following voiced stop or sibilant:

- stops: YAv. *upa-bdi* ‘on the foot-hill (of)’ (< *upa-* + *pad-*); YAv. dat.-abl. plur. *d<sup>h</sup>βiiō*, OPers. instr.-abl. plur. *abiš* < *āp-* ‘water’ + *-b<sub>1</sub>ah*, *-biš*; OAv. dat.-abl. plur. *drəguuō*. *d<sup>h</sup>βiiō* YAv. *druuqβiiō* < *druguat-* ‘possessed by the lie’ + *-b<sub>1</sub>ah*; instr. plur. Av. *azd<sup>h</sup>βiš* < *ast-* ‘bone’ + *-biš*;
- affricates: OAv. 2p inj. *0βar<sup>h</sup>š-dūm* < *0βar<sup>h</sup>s-* ‘to fashion’ (< IIr. *0uaré-*);
- sibilants: OAv. *zdī* ‘be!’ < *ah-ls-*; *mazdā-* ‘all-knowing < placing (all) in (his) mind’ < *mas-dā-* (< *m<sub>1</sub>s-*); – *niš-bər<sup>h</sup>ta-* ‘removed’ (< *niš-* + *bər<sup>h</sup>ta-*); *duš-zaotar-* ‘evil libator’ (< *duš-* + *zaotar-*).

Final *š* was voiced before vowels and voiced consonants in compounds and before suffixes (see also section 1.2.1.3: OAv. *ər<sup>h</sup>š-uxδa-* ‘straight utterance’ (but YAv. *arš-uxδa-*); *duš-ā0ra-* ‘with bad (constricted) breathing space’; *aβ<sup>h</sup>š-dāna-* ‘water container’ (< *āfš-* + *dāna-*).

##### 2.3.2.1b ‘Bartholomae’s law’

A special case of assimilation is ‘Bartholomae’s law’, according to which an IIr. final voiced aspirate of the stem passed both its aspiration and voice on to an initial *t* or *s* of an ending, so as to produce clusters of the type, e.g., *-b<sup>h</sup>-t-* > *-bd<sup>h</sup>-*, *g<sup>h</sup>-z* > *gž<sup>h</sup>* (with *ruki*, see section 1.2.1.3). The resulting clusters remain in Old Avestan: IIr. *aug<sup>h</sup>-ta* ‘to present oneself (as), say’ had 3s *aug<sup>h</sup>-ta* > *aog-d<sup>h</sup>a* > OAv. *aog<sup>h</sup>dā* and 2s *augž<sup>h</sup>-sa* > *aug-ž<sup>h</sup>a* > OAv. *aogžā*; from IIr. *uaj<sup>h</sup>-* ‘to convey’ we have *uaj<sup>h</sup>-tra-* ‘conveyor, draught animal’ > *uaj<sup>h</sup>-d<sup>h</sup>ra-* > OAv. *važdra-*; IIr. *dad<sup>h</sup>-* ‘place’ had 3s mid. *dad<sup>h</sup>-tai* > *dad<sup>h</sup>-d<sup>h</sup>ai* (see section 1.3 > OAv. *dazdē* ‘it is placed’ (vs. IIr. *dad-tai* ‘it is given’ > *dat<sup>h</sup>tai* > OAv. *dastē*, YAv. *daste*);

IIr. *d<sup>h</sup>ab<sup>h</sup>-* (> *dab<sup>h</sup>-*) ‘deceive’ had the desiderative stem *di-db<sup>h</sup>-sa-* > *di(d)bž<sup>h</sup>a-* > OYAv. *diβžā-* ‘seek to deceive’ (but OInd. *dipsa-* with elimination of ž).

In Young Avestan and Old Persian, these groups remain only in isolated words: YAv. *ubda-* ‘woven’ < *ub<sup>h</sup>-ta-* (< *uab<sup>h</sup>-*); OAv., OPers. *azdā* ‘known’ (OInd. *addhā*), but most often they are analogically replaced by unvoiced groups: YAv. *aoxta*, *vaštar-* ‘draught animal’, *dapta-* ‘deceived’ (for *dabda-*), *gər<sup>3</sup>fšā-* ‘grasp’ (for *gr<sup>3</sup>b-ž<sup>h</sup>a-* < *gr<sup>3</sup>b<sup>h</sup>-* ‘seize’); YAv., OPers. *basta-* ‘bound’ (OInd. *baddhā-*).

### 2.3.2.1c Geminates

Geminates resulting from internal sandhi and assimilation were simplified: YAv. *usnā-* ‘wash (up)’ < *us-snā-*; *višān-* < *viš-šān-* (< *vis-* + *hān-* ‘who gains a village’, with *ć-š* > *šš* > *š*).

Analogically restored forms are frequent, e.g. YAv. *viš.har<sup>3</sup>zana-* ‘abandonment of the villages’ for *višar<sup>3</sup>z<sup>o</sup>* (< *vis-* + *har<sup>3</sup>z<sup>o</sup>*).

### 2.3.2.1d Dissimilation

Dissimilation in point of articulation is perhaps to be seen before *m* in *vahma-* ‘hymn’ if from *vaf-* (pres. *ufiia-*) ‘weave’, and *daxma-* ‘burial mound’, if from *dafma-* < *d<sup>h</sup>ab<sup>h</sup>-* ‘construct’ (cf. Gk. *taphos*, Hoffmann 1975: 338; Skjærvø 2005b).

Voice dissimilation is found in the groups *fθr* > *fδr* and *xθ(r)* > *xδ(r)* (no examples of *fθV*): *naf<sup>3</sup>δrō* < *naptar-* ‘grandson, scion’; *uxδa-* ‘utterance’, *apāx<sup>3</sup>δra-* vs. *apāxtar-* ‘northern’.

### 2.3.2.2 Spirantisation

#### 2.3.2.2a Unvoiced stops and the unvoiced fricatives f θ x

The unvoiced fricatives *f θ x* are independent phonemes before vowels (see section 1.2.1.4), but allophones of *p t k* before consonants, e.g. IIr. *ku* > Ir. *xu* in YAv. perf. part. *vaox<sup>3</sup>ah-* ‘having spoken’ < *uā-u<sup>3</sup>k-uāh-* (see Skjærvø 1997a). The stops remain after sibilant: OAv. *āsk<sup>3</sup>ti-* ‘following’ (< *sak-* ‘follow’), gen. plur. *strēm* ‘stars’, *vāstriia-* ‘forager’.

In Avestan, Ir. *ft* appears to have reverted to *pt*: OAv. sing. nom. *ptā* ‘father’ vs. dat. *f<sup>3</sup>δrōi* < *fθrai*, YAv. *dapta-* ‘deceived’.

#### 2.3.2.2b Voiced stops b d g and voiced spirants β δ γ

The voiced stops *b d g* and the voiced fricatives *β δ γ* are in complementary distribution in both Old and Young Avestan.

In Old Avestan, the Iranian voiced stops *β* and *γ* are allophones of *b* and *d* before ž: *diβžā-*, *aγžāonuuamna-* ‘?’; otherwise the voiced stops remain unchanged; *β* replaces *u* after *θ*, and *δ* replaces *θ* after *x* and *f* (*xδ*, *x<sup>3</sup>δ*; *fδ*, *f<sup>3</sup>δ*).

In Young Avestan, the Iranian voiced stops remain regularly only initially and after nasals and sibilants (*z ž*), sporadically also in other words. Elsewhere they become the voiced fricatives *β δ γ*: *a<sup>3</sup>βi* preverb (OAv. *a<sup>3</sup>bī*), *duγda* ‘daughter’ (OAv. *dug<sup>3</sup>dā*), *driγu-* ‘poor’ (OAv. *driγu-*); *γ* is also found initially before nasals and sibilants: *γ<sup>3</sup>nā-* ‘woman’ (OAv. *g<sup>3</sup>nā-*), *γ<sup>3</sup>mata-* ‘gone’, *γžar<sup>3</sup>.γžar-* ‘flow’. Finally, *f* and *x* are voiced before ž: *aβ<sup>3</sup>ždāna-* ‘water container’, *vāγž(əli)biiō*, and *δ* is an allophone of *θ* in the groups *fδr* and *xδ*, see section 2.3.2.1d.

Later changes. The resulting Young Avestan voiced fricatives are all subject to further

contextual and chronological, possibly also dialectal, changes and variations:  $\beta$  tends to become  $\underline{u}$  >  $uu$ : *viiāuuca'tī-* 'shining' < *vi-ā-βā-* < *bā-* 'to shine', *auuara-* 'to bring' (< *ā-βara-*). In turn,  $\underline{u}$  may combine with preceding *a* to form the diphthong *ao*: *a'βi* 'to' > *auui* > *aoi* (mss. *aōi*, *aōui*, etc.; *ada'βiia-* 'not to be deceived': sing. nom. masc. *adaoiiō*, but acc. *adauim*).

$\delta$  vs.  $\theta$ : Sporadically,  $\delta$  alternates with  $\theta$ , notably in forms of *vaēθ-* (*vaēδ-*) 'to know' and in pres. *dadā-* (*daθā-*) < *dā-* 'to give, place', sporadically elsewhere.

$\gamma$  is lost before  $\underline{u}$  and sporadically before *u*: YAv. *druuaṇt-* < *druγuaṇt-* *drəguuaṇt-*); *rəuuī-* 'fast' < *rayūi-* (fem. of *rāγu-*); *raom* < *rayum*; *mo<sup>u</sup>rum* < *marγum* 'Merv', but *driyum*, *moyu<sup>o</sup>* (see Skjærvø 1997b).

### 2.3.2.3 Consonant groups and anaptyxis

Most Indo-Iranian consonant groups survived in Avestan, and anaptyxis does not create additional syllables as shown by the meter. The anaptyctic vowels is typically  $\text{ə}$ , but also *a*, *i*, *u* (often as conditioned variants of  $\text{ə}$ ). Anaptyxis is found in more contexts in Old than in Young Avestan and varies among the manuscripts. Following are some of the more unusual groups (others are common and trivial):

Stop + stop:

- initial: OAv. *pt-* in *ptar-* 'father' (nom. *ptā*, *p<sup>u</sup>tā*; acc. *p<sup>u</sup>tarēm*, *ptarēm*); *db-* in *d<sup>u</sup>bitā* '??' (< *dūtā*); *tk-* in *tkaēša-* '\*guidance'; YAv. *p<sup>(a)</sup>tar<sup>3</sup>ta-* 'winged'; – in Young Avestan, *pt-* in *ptar-* has been replaced by *pit-* and *db-* by *tb-*; – other groups have been simplified: *db-* > *b-*: *bitīm* 'second(ly)' (< *dbitiyam*, but *ā-tbitimlā-δbitim* 'a second time'); Ir. *pt-*, *kt-* > *t-*: YAv.: *tūrīia-* < *ptūrīia-* 'uncle', *kturīa-* (< *ktūrīa-*, cf. *caθrušī* 'fourth'; but *ā-xtūrīm* 'a fourth time');
- medial: OAv. *āsk<sup>3</sup>ti-* 'following\*' (< *ā-skti-*); gen. plur. *dug<sup>3</sup>draṃ* < *dug<sup>3</sup>dar-* 'daughter'; YAv. *hapta* 'seven', *aṭka-* (*aḍka-*) 'coat'; *ubda-* 'woven'; YAv. *ā-tbitimlā-δbitim* 'a second time'.

Stop + non-stop:

- initial, common: + continuants: OYAv. *br-*, etc.; + glides: *dii-*, *duu-*; OAv. also + fricative: *d<sup>3</sup>j-*; + nasal: OAv. *g<sup>3</sup>n*, *g<sup>3</sup>m-*, *d<sup>3</sup>m-*; – in Young Avestan less common: *dj-* > *j-*, *gn*, *gm-* > *γ<sup>3</sup>n*, *γ<sup>3</sup>m-*, *dm-* > *nm-*.

Fricative/sibilant + continuant, common:

- initial and medial: *fr-*, *fi-*, *fš-*, *sr*, *zr-*, *γž-*, *f<sup>3</sup>δr* (< *fθr*) and medial *x<sup>3</sup>δr* (< *xθr*: OAv. *f<sup>3</sup>raša-*, YAv. *fraša-* 'filled with (life-giving) juices'; YAv. *fii<sup>3</sup>η<sup>3</sup>ha-* 'to hail', OYAv. *fšūiiaṇt-* 'cattle tender'; OAv. *s<sup>3</sup>raoša-*, YAv. *sraoša-* 'readiness to listen, Sraoša'; OYAv. *z<sup>(e)</sup>razdāiti-* 'reliance'; YAv. *γžara-* 'flow');
- medial: OYAv. *vax<sup>3</sup>δra-* 'speech organ', OAv. *raf<sup>3</sup>δra-* 'support'; YAv. gen. sing. *naf<sup>3</sup>δrō* < *naptar* 'grandchild, scion'.

Two fricatives + consonant. Initial groups of two fricatives (fricative + sibilant) + consonant are found occasionally: OAv. dat. sing. *f<sup>3</sup>δrōi* < *ptar-* 'father', *f<sup>3</sup>ratū-* '??'; YAv. *fštāna-* '(woman's) breast', *xštuaa-* 'sixth', *xšnūman-* 'favour', *xšmākəm* 'your (plur.)'.

Final groups with *š* or *t*: *kə<sup>3</sup>fš* 'body', *vāxš* 'word'; *vaxšt* 'he has grown'.

Final *-t* is, from a synchronic perspective, sometimes dropped after a sibilant.

Historically, we must distinguish between two cases: 1. *-t-t* > *-t<sup>3</sup>-t* > Av. *-s-t*: OAv. *“rūraost* 'howled' < *“raud-t*; YAv. *nāist* 'scorned' < *nāid-*; 2. *-s/š-t* > Av. *-s/š*: OAv. *ās*

‘was’, *vaxš* ‘he has overcome’ < *vān-s-t*; *xšnāuš* ‘he has favoured’ < *-š-t*. The *-t* was then reintroduced by analogy: OAv. *cōiš-t* ‘he has pointed out’, *vaxš-t*, YAv. *tāš-t* ‘he fashioned’ (Tremblay 1999).

### 2.3.2.3a Groups at morpheme boundary

Groups found only at the morpheme boundary include in principle all combinations of any final group + *C* or any initial group: dat.-abl. *vāyž<sup>h</sup>biiō* < *vak-ivac-* ‘word’, *frādaṭ.fšau-* ‘cattle-furthering’, *Orafs-ca* ‘and satisfaction’, *afš-tacin-* ‘flowing with waters’, *afš-ciOra-* ‘containing the seed of water’, *kəṛ<sup>h</sup>fš-x<sup>h</sup>ar-* ‘body-eater’; *fraor<sup>h</sup>t-fraxšnini-* ‘(a mind) with foreknowledge of and turned toward the reward(?)’.

### 2.3.2.3b Anaptyxis in Old Persian

Anaptyxis is found in OPers. only in groups containing *d* in the vicinity of *u*: *d<sup>h</sup>ruwa-* ‘healthy, whole’, *sug<sup>h</sup>da-* vs. *sugda-* ‘Sogdian’.

### 2.3.2.4 Palatalisation and labialisation of consonants

In the Avestan text, palatalised and labialised consonants are indicated either by special letters (*ń, ř, ́, ́́* and *ř<sup>h</sup>, x<sup>h</sup>*) or by writing *i* and *u* before the consonants (*i-* and *u-*epenthesis). The exact phonetic nature (and age) of the phenomenon is not known. The sibilants are not marked for palatalisation (*s, z, š, ž*), but permitted palatalisation of preceding *a* (see section 2.3.1.3), and *m* was not affected. Labialisation affected only *r* and proto-Ir. *h*. For details, see de Vaan 2003, Chapter 7.

Palatals + *i*: The alveo-palatal consonants *c, j* usually remained before *i*, e.g. *ci-* ‘who, what?’, but were palatalized before vowel:

- *ci* > *š(ii)*: YAv. *š(ii)āiti-* ‘happiness’ < *čjāti-* (also OPers. *šiyāti-*); fem. *apaši* ‘backwards’ < *apāčī*;
- *j<sup>h</sup>, ji* > *ž, ži* (rare): YAv. *družā-*: OAv. *drujiia-* ‘to lie’; *aži-* ‘dragon’ < *aji-* (OInd. *ahi-*).

#### 2.3.2.4a *i-* and *u-*epenthesis in Avestan

*i*-epenthesis occurs regularly before *r*, dentals, and labials and in consonant groups: Av. *rixta-* ‘left’, OAv. *gādī* ‘come!’, 1p mid. ending *madē*; YAv. *stao<sup>h</sup>ti* ‘praises’, *vand<sup>h</sup>nī-* ‘victorious’ (fem.); *ōiiejah-* ‘danger’; *a<sup>h</sup>pī, a<sup>h</sup>bī, a<sup>h</sup>biiō*; – between compounds: *tarō<sup>h</sup>dīti-* for *tarō.dīti-* ‘scorn’; – in consonant groups: dat.-abl. plur. *vāyž<sup>h</sup>biiō* (< *vāk-* ‘word’); *a<sup>h</sup>rime* ‘in peace and quiet’ (< *ar<sup>h</sup>m<sup>h</sup>e*, cf. *armaē<sup>o</sup>*); – vocalic *ə<sup>h</sup>*: *miriia-* ‘die’ < *m<sup>h</sup>-ia-*;

*u*-epenthesis. This occurs regularly before *r*: YAv. *rūraod-* ‘howl’, *a<sup>h</sup>ruša-* ‘rosy white’, *po<sup>h</sup>ru-* ‘much’; OAv. *pa<sup>h</sup>ruuia-* ‘first’.

Combined *i-* and *u-*epenthesis. This occurs before *r*: YAv. *pao<sup>h</sup>riia-* < *parūia-* ‘first’; *pao<sup>h</sup>rī-* < *parūī-*, fem. of *po<sup>h</sup>ru-* ‘much’; – vocalic *ə<sup>h</sup>*: *tūriia-* ‘father’s brother; fourth’ (< (*plk*)*trūia-*), dat.-abl. plur. *nəruuiō, nuruiō* ‘for the men’ (< *n<sup>h</sup>-ūiō* < *n<sup>h</sup>-biāh*).

#### 2.3.2.4b Dissimilation of *iī* and *uu* to *əi*, *aī* and *əu*

In a further development, the sequences *ii* (*iī*) and *uu* (*ūū*) resulting from epenthesis were dissimilated to *əi*, *aī* (*əi*, *aī*) and *əu* (*əu*): OAv. *ənə<sup>h</sup>ti-* ‘non-going’ (< *an-<sup>h</sup>i<sup>h</sup>ti*; cf. *x<sup>h</sup>tīcā* ‘and good going’); *da<sup>h</sup>dūiaṭ* ‘shall she see’ (< *d<sup>h</sup>dūiaṭ*?).

On absence of epenthesis due to stress, see section 2.3.4.

## 2.3.2.4c Epenthesis in Old Persian

Possible examples of epenthesis include *pa'siyā* 'before' (MPers. *pēš* if from *paθiā(k)*) and *yāu<sup>h</sup>mani-* and *yāu<sup>h</sup>ma'ni-* 'in control(?)' if from *yau<sup>x</sup>-man-* 'harnessing' (< *yaug-*; several other interpretations have been proposed, see, e.g. Hoffmann 1975: 56–57, 1976: 633 n. 20).

## 2.3.2.5 Glides

The glides–initial *y-*, *v-* and intervocalic *i*, *u*–are in complementary distribution.

*i*, *u* > *ī*, *ū*. Both postconsonantic and postvocalic *i* and *u* were apparently realised (by the time of our mss.) as *īj* and *ūj* (including *ūj* < *uβ*), written *īi* and *ūu*; note OAv. *ōi-i* = YAv. *ai-i* for *ai-ī*. In Old Persian, < *iy*, *uv* > is written for postconsonantic (*ī*)*ī*, (*īī*)*ū*.

*a-uC* > *aoC* or *āuC* at the morpheme boundary (reduplication, prefixes): Av. perf. stem *vaon-* < *ua-ūn-* < *van-* 'to win', OAv. *vāunu-* '\*winner'; YAv. *vaox'ah-* 'having spoken' < *ua-uk-uah-* < *vak-* 'speak'.

Initial *īi-* > *īi* and *ūu-* (< \**uβ-*) > *uu*. These are rare and are often written *y-* (*ī-*), *v-* in the manuscripts: *īiēiān* (*īēi-*, Y. 42.6), subj. of the perf. stem *īi-āi-* < *ai-* 'go' (cf. OInd. *iyāy-*), *uua* (*īuā*) < *uβa* 'both'.

*īu* and *ūi*. These groups (also with *u* < *β* and *u*) survive occasionally in the manuscripts (only *īuu*; no examples of *ūii*?), but sometimes were resolved by anaptyxis (or dissimilation?): initial, *viēmi* and *v<sup>u</sup>iēmi* < *vīa-* 'pursue', *y<sup>u</sup>uua* = *yūua* (*yūua* < *yūuan-* 'youth'); – medial, *hāuu<sup>u</sup>iia*, *hāuu<sup>u</sup>iia-ca* 'left (hand)' (cf. fem. *haoiā-*); *driuu<sup>u</sup>iās-ca* (< *driuu<sup>u</sup>i-* fem. of *driyu-* 'poor'; see Skjærvø 1997b). Often they were simplified to *īu* < *iuu*>. Final *-īuō* (< *-īau*) appears as *-īiō*: voc. *maniiō-* < *maniiu-* 'spirit'; loc. *daṛjḥō* < *daṛjḥu-* 'land'; see de Vaan 2003, §25.10; Skjærvø 2005a: 202–3).

*du*. The initial cluster *du-* shows up variously (see section 2.3.2.3): OAv. *duuaēšah-* 'hostility', *d<sup>u</sup>bišīia-* 'be hostile', YAv. *ṭbaēšah-*, *ṭbišīia-*, but perf. *diduuaēša* 'I have been hostile'; OAv. *d<sup>u</sup>bitīia-* 'second', YAv. *bitīia-*, but *āṭbitīm* 'a second time', OPers. *duviīya-*. Intervocalic *du*: 2nd plur. mid. *-duam* > OAv. *-dūm*, YAv. *-δβəm*; YAv. *ə<sup>r</sup>δβa-* 'upright', beside *ə<sup>r</sup>duua-*.

*ou*. The cluster *ou* became Av. *oβ*: *ratuš* 'model' vs. gen. *raθō*, but loc. *gātuiō* < *gātau* < *gātu-* 'place'.

In Old Persian, the *o* also spread to the rest of the paradigm: *xratu-* 'intelligence' (MPers. *xrad*) and *xraou-*, but only *gāou-* attested (MPers. *gāh*).

## 2.3.2.6 Simplification of consonant groups

Certain consonant groups lose one consonant. The loss may have been early (e.g. earlier than the IIr. *ru(p)ki* rule) or late: OYAv. *diβžā-* 'seek to deceive' < *di-dbžā-* (OInd. *dipsa-*); OAv. loc. plur. *naššū* < *nap(t)-šū* < *napāt-* 'grandson'; YAv. *°fšm-* 'with ... breasts' (cf. *fštāna-* 'breast'); YAv. *sāθr-* vs. *sāstar-* '(false) teacher' (see also section 2.3.2.1a).

Final *-ant-s* regularly became Av. *-qs* (*cuuqs* 'how great?'), but appears to have been simplified to *-an-s* early enough to develop like IIr. *-an-s* in the nom. sing. of active present participles > proto-Ir. *-aṅh* (OInd. *-am* before vowels): YAv. *ja'diūq* and *framrū* (< *°mruyanh*); the YAv. nom. sing. ending *-ō* may then have been substituted for *-ō*. (Schindler 1982 proposed dialect influence in these forms.)



### 2.3.3 Sandhi

Stem-initial or -final consonants or vowels are regularly modified by preceding or following sounds after prefixes or before suffixes (derivational or inflectional), as well as, more generally, between members of compounds, according to the rules discussed above.

Changes to a word-final consonant or vowel are usually caused by enclitics, mostly Ir. *-ca*, *-cit*, occasionally pronouns with initial *t-*, and, exceptionally, before nouns with initial *t-*. This sandhi principally affects final vowels and final Ir. *-asl-ah*:

- before enclitic Ir. *-ca*, *-cit*: OAv. *manas-cā* ‘and thought’, *gaē0âs-cā* ‘and living beings’, *yimas-cī* ‘even/also Yima’; YAv. *mi0ras-ci* ‘even/also Mi0ra’, *haomqs-ca* ‘and the haomas’, *vīspâs-ca* ‘and all’; OPers. (with *-s-c-* > *-š-c-*): *manaš-cā* ‘and thought’, *kaš-ciy* ‘anybody’;
- before enclitic pronouns and nouns: OAv. *yāngs-tū* ‘whom you’, YAv. *ōiy<sup>3</sup>matas tūrahe* (proper name).

In compounds: OAv. *rāniīō.skər<sup>3</sup>tī-* ‘joy-making’ (< *-as-k-*); YAv. *drujas-kanā-* ‘den of the Lie’; OPers. *vahayaz-dāta-*, proper name: ‘given as the better (of the two)’.

Final *-t* was probably assimilated to following sibilants and affricates, but in Avestan it was restored as *-t*; in Old Persian, it was also analogically replaced by *-š-c-*: YAv. *aṭ-cī*, *yaṭ-cī*; OPers. *aciy*, *yacy*, but *aniyaš-ciy*, *avaš-ciy*, *ciš-ciy*.

#### 2.3.3.1 Anaptyxis in sandhi

Anaptyxis in sandhi occurs after OAv. final *-m* before fricative or sibilant: *yām<sup>3</sup> spašu0ā* ‘whom you \*regard’, *hām<sup>3</sup>.fraštā* ‘he consulted with’; – after final *-s/-š* before consonant: OAv. *vasas<sup>3</sup>.xša0ra-* ‘having command at will’, YAv. *us<sup>3</sup>.hištən* ‘they stood up’, *nəmas<sup>3</sup> tē* ‘homage to you!’, *yas<sup>3</sup> 0βqm* (‘half’ -sandhi: < *yas* + *0βqm* for \**yas tuuqm*), *aījhās<sup>3</sup> tanuuō* ‘of this body’.

#### 2.3.3.2 Final vowels and diphthongs in sandhi

Before enclitic *-cā*, vowel quantities may change and, at least in Old Persian, original quantities reappear: OAv. *sauua-cā* vs. *sauuā* ‘life-giving strengths’, *x<sup>3</sup>ūti-cā* ‘and good going’ vs. *ənə<sup>3</sup>tī* ‘non-going’; – YAv. *mašiiā-ca* vs. *mašūa* ‘mortal men’, etc.; – OPers. *mana-cā* vs. *manā* ‘of/to me’; *avahāya-rādiy* ‘on account of that’ vs. *avahāyā*.

In Avestan, monophthongised final diphthongs reappear: *taē-cī* ‘they too’ vs. OAv. *tōi*, YAv. *tē*; YAv. *drao-ca* ‘and in tree’ vs. \**druuō*.

### 2.3.4 Stress-related alternations

Changes in vowel length are found frequently throughout the Avestan corpus (see section 2.1.1.7e). At least some of these changes seem to be due to stress, which is sometimes termed ‘rhythmical shortening/lengthening’. Other cases of lengthening and shortening of vowels includes final *ā*, *ī* and *ū* before enclitics.

We do not know what the actual stress patterns of Avestan and Old Persian were, although stress must have been responsible for several morphophonological alterations, both in the case of vowels and of consonants. Vowel quantities often change when words receive an enclitic particle or in the course of declension or conjugation. Enclisis also

seems to have affected the palatalisation and labialisation of consonants and the use of anaptyxis, as well as the distribution of alternate consonants.

Epenthesis appears to be omitted in words with enclitics: OAv. *ən-ə'ti-* (< *anī'ti-*) vs. *x<sup>v</sup>-īti-cā*; *buud'ntī* 'they shall become' vs. *buuanti-cā*; *ma'ni-madi-cā* 'and we think' vs. *vā'rōi-ma'dī* 'may we \*classify'; YAv. *frādati-ca* 'and he furthers', *vīsati-ca* vs. *vīsati* 'twenty' (see de Vaan 2003: Chapter, 7).

Absence or presence of anaptyxis in Old Avestan may depend on stress patterns: *ušə'rū* (< *ušu'ru-*) vs. *ušuruiē*; *d'riiamnā* vs. *d'riiam<sup>m</sup>nas-cā*; *ə<sup>r</sup>ž-jīš* vs. *ə<sup>r</sup>ž<sup>ə</sup>-jiiōi*.

The (pre)aspirated/unvoiced allophone of *r* before *p*, *k*, *t* (<sup>h</sup>*r**p*, <sup>h</sup>*r**k*, <sup>h</sup>*r**t* > *š*) is apparently limited to syllables which bore the stress in proto-Avestan: acc. *kəhrpəm* 'body' vs. *hukə<sup>r</sup>pta-* 'having a good body'; *mahrka-* 'destruction' vs. *amə<sup>r</sup>xti-* 'absence of destruction'; *aša-* 'Order' vs. *astuuə.ə<sup>r</sup>ta-* 'he through whom Order will have bones', acc. *ašim* 'reward' vs. *ā<sup>r</sup>tim-ca* < *artim-ca* (P. 39) beside *ašim-ca*; *bāšar-* 'rider' < *bar-tar-* vs. *bar<sup>r</sup>tar-* 'carrier' (corresponding to *bara-* mid. 'ride' vs. act. 'carry'). For details, see de Vaan 2003, §29.

### 2.3.5 Metro-phonology

Certain (morpho-)phonological phenomena expected from the history of the language are illuminated by the Avestan meters.

The Old Avestan meters are syllable-counting and based on rhythmical units of (more or less) identical numbers of syllables. Stanzas contain three to four rhythmical units ('lines') composed of two smaller units ('half-lines') divided by a cesura.

The Young Avestan meter is based on regular rhythmical units of eight syllables. Next in frequency are probably units of seven and nine syllables. Set formulas tend *not* to be adjusted to the meter and frequently causes the number of syllables to differ from the standard eight (see Lazard 1984, 1990, 2002).

The principal phonological features revealed by the Old Avestan meter are disyllabic long vowels and diphthongs and 'Siever's Law' (section 2.3.5.2). In the Young Avestan octosyllabic meter, contracted vowels and Siever's Law apparently provided the poets with flexibility of syllable count, and often, apparently, they scanned these words according to the needs of the meter. Whether they actually did this cannot, of course, be verified.

#### 2.3.5.1 Disyllabic long vowels and diphthongs

Disyllabic long vowels and diphthongs are found in laryngeal-stem nouns and verbs, in compounds, and between preverb and verb, as well as in certain morphemes which may or may not have contained laryngeals. Examples:

Nouns: neut. *h*-stem *dā* = *daō* 'gift'; *Han*-stem *maqōrā* = *maqōraā* 'keeper of the *maqōra*' (< *manōra-Han-*, but obl. *maqōrān-* < *manōra-Hn-*); gen. plur. *-qm* (*-əm*) (always disyllabic); *-ārmāti-* 'humility' has a disyllabic initial *ā-* (cf. OInd. *arāmati-*).

Verbs: subj.: *dā'tī* = *da'tī* 'he shall give/place' (< *daH-ati*; but *dada'tī* 'they give/place' < *da-dH-ati* < *da-dH-nti*).

Compounds: *f<sup>3</sup>rašaōstrāi* = *frašaūstrāi*, *vīštāspa-* = *vīšta'aspa-*, *d<sup>3</sup>jāmāspa-* = *djāmā'aspa-*, all proper names, but *spitāma-* 'Spitamid' < *spita-Hma-* 'having fattened strength (*Hama-*)', *darəgāiiu-* < *darga-Hīu-* 'giving a long life span (*āiiu-*)'.

Between preverb and verb: *āiiaṭ* = *ā-aiṭ* ‘he shall come’, *āitē* = *ā-itē* ‘to come’, *āiōi* = *ā-iōi* ‘I request’.

Optional disyllabic scansion: the thematic dat. sing. ending *-āi* is most often disyllabic; – the thematic subj. endings 1s *-ā*, *āi*, 3s *-āi*, 3p *-an* are mono- or disyllabic.

### 2.3.5.2 Siever’s law

In Ir. *i* and *u* after consonant were realised as *i* and *u* or *ij* and *uj* according to whether the preceding syllable was light or heavy: if *i* and *u* were preceded by short vowel plus one consonant (light syllable), the phonetic realisation was *i* and *u*; if *i* and *u* were preceded by a syllable with a long vowel or diphthong plus one or more consonants or by short vowel plus more than one consonant (heavy syllable), it was *ij* and *uj*.

In Iranian, stops before consonantal [j] and [w] were then spirantised, but remained before [ij] and [uj]. This is still the situation in Old Avestan:

- after light syllable, disyllabic: *ufiia-* ‘weave’ < *uf-ia-*, *mər’ōiiu-* ‘death’ < *mṛt-iu-*;
- after heavy syllable, trisyllabic: *vaēpiia-* ‘a \*trembler’ < *uap-iia-*, *mašiiia-* ‘mortal man’ (< *mart-ijia-*).

The endings in *-du-*, however, apparently do not cause Siever’s Law: OAv. *vīduiē* ‘(in order) to know’ (< *uiduai*, light) *mər’ngduiē* ‘(in order) to be destroyed’ (< *mṛng-duai*, heavy; there are no examples of the 2p ending *-dūm* < *-duam* after consonant in metrically unambiguous positions).

In Young Avestan, there are many exceptions: suffix *-tuua-*, *-ōβa-* (see section 4.6.2): *maōβa-* ‘that ought to be thought’ < *man-ōua* and *frāiias’ōβa-* ‘that ought to be sent forth in sacrifice’ (for *’ias-tuua-*); – suffix *-uant-* (see section 9.1.1.1): *āfənt-* < *āfuiant-* ‘rich in water’ (for *āp-uuant-*); – *tu-*stems: gen. plur. *yāōβam* < *yātu-* ‘sorcerer’ (for *iāt-uua’ am-*).

### 2.3.6 Phonological changes associated with inflection and endings

(Morpho)phonological changes associated with inflection and nominal and verbal endings affect vowels and consonants, among them the following.

Important vowel changes include *a*, *ā* > *e* (see section 2.3.1.3); *-an-* > *-ən* and *-in-* and *-aijaN-* > *-aēn*, *-aijaN-* > *-aijāN*, and *-auaN-* > *-aon* (see section 2.3.1.4).

Consonant changes are found in stems (caused by the IE.-Irr. ablaut) and include spirantisation (see section 2.3.2.2); palatalisation (see section 1.2.1.2); dental assibilation (see section 1.3); assimilation (see sections 1.3, 2.1.2.2., 2.3.2.1); voice dissimilation (see section 2.3.2.1); and the modifications of Irr. *é* and *í* and Irr. *s(z)*.

Spirantisation of voiceless stops (*plb*, *klg*); nom. sing. *āf-š* < *ap-* ‘water’, *vāx-š* < *uak-* ‘word’ *druux-š* < *drug-* ‘(cosmic) Lie’; loc. plur. *af-šu* < *ap-*; aor. 1p *ioux-madi*, past part. *iux-ta-* < *ioug-* ‘harness’; weak perf. stem *ča-xr-* < *kar-* ‘do’, *čā-xn-* < *kan-* ‘love’; *ci-cit-* < *kait-* ‘distinguish’.

Palatalisation of velars before Irr. *e*, *i*; acc. sing. *uāc-am* < *uak-*; pres. *jan-lgn-* ‘strike down’, aor. *jam-*, past part. *gmata-* < *gam-* ‘come’.

Dental assibilation: pres. act. 3s *das-tai* < *da-d-t°*, *daz-dai* < *da-d<sup>h</sup>-t°*, imp. act. 2s *daz-di*, mid. 2p *daz-duam* < *da-d-d°* < *dā-* ‘give’, *d<sup>h</sup>ā-* ‘place’; inj. 3s *nāis-t*, imp. 2p *nīs-ta* < *naid-* ‘scorn’ (but *nāis-mi* analogical for *\*nāin-mi*); past. part. *uis-ta-* < *uaid-* ‘find’, *bas-ta-* (analogical for *\*baz-da-*), *band<sup>h</sup>-* ‘bind’.

Assimilation of voiceless stops before (Iir. aspirated) voiced stops: instr. plur. *abiš* < *ap-biš*; *azd-biš* < *ast-* ‘bone’; – before *ž*: *aug-ža* < *aug-*.

Assimilation of sibilants: nom. sing. *haruātās-* < *haruātāt-* ‘wholeness’; pres. 2s *vaši* < *vač-ši* (*vaš-ši*) < *vač-* ‘wish’; imp. mid. 2s *frač-šua* < *frašua* < *parč-lfrač-* ‘ask’.

Voice dissimilation of *xθ* > *xđ* is found, e.g. in *tar*-stems: *f-θr-ai* > *fādrōi* < *ptar-* ‘father’; perfect 2s: *ua-uax-θa* > *vauuax’đa* < *wak-* ‘speak’; and in the suffixes *-θa-*, *-θra-*: *vax’đra-* ‘speech organ’.

Modifications of Iir. *é* and *j*: plur. acc. *ašn-ah* < *asan-* ‘stone, heaven’; pres. 3s *vaš-ti*, 2p *uš-ta* < *vač-*; OAv. *ər’š* ‘straight’ (adv.) < *Hrj’š* (cf. *ər’zu-* ‘straight’ adj.); sing. instr. *baršn-ā* < *barj’han-* ‘height’.

Modifications of Iir. *s* (*z*): nom. sing. *vāx-š* < *uak-*, loc. plur. *af-šu* < *ap-*; loc. plur. *anj’ahu* < *anj’ah-hu* ‘in constrictions’; pres. 1s *ah-mi*, 2s *ahi*, 3s *as-ti*, 3p *h-anti*, imp. 2s *z-di* < *ah-* ‘be’; pres. inj. 2s *bar-a-h* < ‘you carry’, opt. 2s *bar-ai-š*; imp. mid. 2s *-šua*: pres. Av. *yāsa-ŋ’ha* < *yā-sa-* ‘request’, *dasua* < *da-d-sua* < *dā-* ‘give’; aor. *kṛ-šua*, pres. *kṛ-nu-šua* < *kar-* ‘do’; *s-aor.* inj. mid. 1s *maŋ-h-i*, 3s *man-s-ta* < *man-* ‘think’; imp. 2p *Orā-z-dyam*; 3s act. 3p *stā-h-at* < *stā-* ‘stand’; subj. 3s *nai-š-a-t* < *nai-* ‘lead’; perf. stem *hu-šuf-* < *hupa-* ‘sleep’.

### 3 MORPHOLOGY I: NOMINAL MORPHOLOGY

The morphological categories of nouns, verbs, etc. are the same in all three Old Iranian languages and are largely identical with the inherited Indo-Iranian system. They are much less well known than the Old Indic system, however, because of the limited material.

There are some modifications: in Young Avestan and Old Persian, the abl. sing. is marked in all declensions. In Old Persian, the genitive merged with the dative and the instrumental with the ablative into two cases: gen.-dat. and instr.-abl. In Young Avestan and Old Persian, a ‘preterital optative’ developed.

Note also that Old Persian shares morphological (also lexical) isoglosses with Middle and Modern Iranian languages remaining in Central Asia, so-called ‘Randsprachen’ phenomena.

Typically, the morphological categories are defined by the type and morphology of the inflection and derivation. Both nominal and verbal stems may consist of a root or root + formant, to which inflectional endings are attached: R-(f)-E.

Both nominal declension and verbal conjugation are characterised by complex patterns of quantitative ablaut in the so-called athematic classes, affecting the root, and/or the formant, and/or the ending, as opposed to the absence of ablaut in the nominal and verbal so-called thematic classes, both marked by a thematic vowel *-a* (< ablauting IE. *-o/-e*). The various ablaut patterns result in the extremely complex inflectional morphophonology described above and below.

It is useful to classify nominal and verbal stems as strong and weak (occasionally also middle). The strong stem, if possible, takes the lengthened grade of the root or stem formant, the weak one the full or zero grade. Strong cases are the nom., acc. sing., nom.-voc.-acc. dual, and the nom. plur.

Pronouns have several endings not found in nouns.

### 3.1 Nouns

Iranian, on the whole, maintains the inherited the system of vocalic and consonantic declensions in nouns and adjectives; the triple gender (masc., fem., neut.) and number (sing., dual, plur.) systems; and the eight cases.

#### 3.1.1 Gender

The distribution of the genders in nouns, adjectives, pronouns, nominal forms of the verb, and numerals is that of Indo-Iranian, with some individual Iranian features, e.g. *vak-ivac-* is feminine in Old Indic (Latin *vox* fem.), but masculine in Avestan.

A few words have both feminine and neuter forms (not in complementary distribution), e.g.:

- fem.-neut.: YAv. *zaoθrā-* ‘libation’; *pəṣānā-* ‘battle’; OP. *<sup>h</sup>unarā-* ‘skill’;
- YAv. neut. *a*-stems frequently have fem. plur., e.g. sing. *nmānəm* ‘house’, plur. *nmānā*;
- masc.-fem.: OAv. *mąθrā-* ‘poem’ (fem. *Yasna* 43.14).

See also section 3.1.3.1 Derived feminines.

#### 3.1.2 Number and case

There are three numbers: singular, dual and plural. The few dual forms found suffice to show that this category was of the old Indo-Iranian type, but with distinct genitive and locative forms in Old Avestan. See Tables 3.3.1–2

Proto-Iranian had eight cases: nominative, vocative, accusative, genitive, dative, ablative, instrumental, and locative. All are preserved in Avestan, while in Old Persian they were reduced to six, the genitive being also used for the dative and the ablative having merged with the instrumental.

Case syncretism is common: vocative = nominative in dual and plural; genitive = ablative except in the *a*-stems (in YAv. and, partly, OPers., the abl. was distinguished from the gen.); nominative = accusative in the feminine plural; nominative = accusative (no voc.) in the neuter singular, dual, and plural; dative = ablative in the plural; dative = ablative = instrumental in the dual; Old Persian (and Young Avestan?), genitive = locative in the dual.

#### 3.1.3 Stem classes and declensions

Synchronically, stems can be classified as vowel stems (ending in *a*, *ā*, *i*, *ī*, *u*, *ū*, *ai*, and *au*) and consonant stems (most commonly ending in *n*, *r*, *h*, but also *p*, *t*, *nt*, *d*, etc.). The main difference is between *a*-stems and all the others: only *a*-stems had distinct forms for the gen. and abl. sing. in Indo-Iranian and proto-Iranian (elsewhere, gen. = abl.) and a gen. sing. not ending in *-hl-š*. Another useful classification is declensions with and without *-hl-šl-s* (*-S* in the following) in the nom. sing.

Diachronically, several of the ‘vowel’ stems are laryngeal stems, with *ā* < *ā* or *aH*, *ī* < *iH*, and *ū* < *uH* and are still declined as consonant stems. The feminine *ī*-stems fall into two groups, the so-called *vṛkī*-type, with the invariant formant *-i-H-* (> *-īC*, *-iḡV*), and the so-called *devī*-type, with ablauting formant *-ī-l-iḡ-* < *-iH-l-iaH-*. The feminine

$\bar{a}$ -declension apparently acquired several features from this type, including the voc. sing. in *-ai* and the element *-jā-*.

Iranian declensions are on the whole inherited from Indo-Iranian, sharing both regular paradigms and archaic singularities with Old Indic, from which they differ mainly because of the phonological developments described above.

Special Iranian features include the protero-, hystero-, and holo-kinetic declensions (see section 3.1.1.6b).

The principal innovations are the extension of the abl. sing. ending *-t* in Young Avestan and Old Persian and the syncretism of cases in Old Persian.

### 3.1.3.1 Derived feminine adjectives and nouns

Feminine forms of most *a*-stem adjectives are declined according to the  $\bar{a}$ -declension: Av. *sūr-a-* ‘rich in life-giving strength’, fem. *sūr-ā-*.

Some *a*-stem adjectives, notably those denoting material, have ‘*vrkī*-type’ feminine forms: YAv. *maniiauu-a-* ‘belonging to the world of thought’, fem. *maniiauu-ī-*; *zarānaēn-a-* ‘of gold’, fem. *zarānaēn-ī-*, OPers. *aθa'gain-a-* ‘of stone’, fem. *aθa'gain-ī-*; female patronymics in Av. *-f<sup>o</sup>δr-ī-* ‘daughter of’.

The *u*-stems and consonant stems have ‘*devī*-type’ feminines with zero grade of ablauting suffixes: YAv. *pour-u-* ‘much’, fem. *pao'r-ī-* (<*par-u- parū-ī-*). In this type, the final *-ī-* probably palatalised a preceding *k* > *č* and further to *š*: *apaš<sup>š</sup>-i* ‘backwards’ < \**apāč-ī* < *apānk-* (only example).

Non-ablauting suffixes: present participles of thematic verbs in *-a'nt-ī-*, *-ənt-ī-*: *van-a'nt-ī-* ‘winning’, *bar-ənt-ī-* ‘carrying’; comparatives in *-iiah-*, fem. *-iieh-ī-*: *maz-iiah-* ‘greater’, fem. *maz-iieh-ī-*;

ablauting suffixes: adjectives and present participles of athematic verbs in *-ant-*, fem. *-a't-ī-*: *bə<sup>r</sup>z-ant-* ‘high’, fem. *bə<sup>r</sup>z-a'tī-*; perf. part. *-uuah-*, fem. *-uš-ī-*: *dad-uuah-* ‘creator’, fem. *dad-uš-ī-*; agent nouns in *-tar-*, fem. *-Or-ī-*: *bar<sup>r</sup>-tar-* ‘carrier’, fem. *bar<sup>r</sup>-Or-ī-* ‘womb’.

Fem. (and neut.) forms of *i*-stem adjectives are declined as *i*-stem nouns: masc., fem., neut. *āhu'r-i-* ‘belonging to Ahura Mazdā’.

Neut. adjectives are declined like neut. nouns: nom.-acc. sing. Av. *sūr-əm*, *āhu'r-i*, *voh-u* ‘good’, OPers. *fraš-am* ‘perfect’, *par-uv* ‘much’.

Pronouns and the numerals ‘3’ and ‘4’ have some special masc. and fem. morphemes (see section 3.6.1).

### 3.1.4 Protero-, hystero- and holo-kinetic declensions

In these declensions, full and zero grades in formants and endings alternate. Proterokinetic forms have stem formant in the full grade and the ending in the zero grade; hystero-kinetic forms have stem formant in the zero grade and ending in the full grade; and holokinetic forms have two full grades or two zero grades.

Avestan has a greater incidence than Old Indic of the proterokinetic as opposed to hystero-kinetic, including from *n*-stems (*r/n*-stems), e.g. hystero-kinetic gen. sing. *-i-ah*, *-u-ah*, *-n-ah*, but proterokinetic *-ai-š*, *-au-š*, *-aŋ-h*.

### 3.1.5 Case endings

The basic case endings as reconstructed for proto-Iranian are set out in Tables 3.3.1–2. Note, again, the convention *-S = -h/-š/-s*. Laryngeals are not always noted.

For actual Avestan and Old Persian endings, see on vowel and consonant changes (see sections 2.3.1–2). Note in particular assimilations between final consonants of stems and initial *S*- and *b*- of endings.

Note also that the new YAv. abl. forms are formed by replacing the proto-Av. gen. ending *-S* by *-t*: *gāri-* ‘mountain’: Ir. gen. *garai-š* → *garai-t* > *garōi-t*; *nar-* ‘man’: Ir. gen. *nr̥-š* → *nr̥-t* > *nər̥-t*; *bar<sup>2</sup>sman-* ‘barsom’: Ir. gen. *barsman-h* → abl. *barsman-t* > *bar<sup>2</sup>smən* (the ending reappears before the postposition *-a*: *vaēsmənd-a* ‘up to the entrance hall’).

TABLE 3.3.1: CASE ENDINGS: CONSONANT STEMS

	Basic	Consonant stems
Sing.		
V	-∅	-∅
N	-S, -∅	-hl-sl-š, -∅
A	-m, -am	-am
NAn	-am, -∅	-∅
G	-ah, -S	-ah, -hl-š
Ab	-t	-atl-t
D	-ai	-ai
I	-ā, -H	-ā
L	-i, -∅	-i
Plur.		
NV	-ah	-ah
A	-ah, -nS	
NAn	-i, -H, -∅	-i, -H, -∅
G	-ā <sup>2</sup> ām	-ā <sup>2</sup> ām
DAb	-b <sup>2</sup> jāh	-b <sup>2</sup> jāh
I	-biš	-biš
L	-Su	-hul-sul-š <sup>u</sup>
Dual		
NAV	-ā	-ā
NAn	-ai, -ī	-ai
G	-āh	-āh
DIAb	-b <sup>2</sup> jā	-b <sup>2</sup> jā
L	-ah	-ah

### 3.1.5.1 The zero ending

No ending is typical of several cases and declensions, sometimes accompanied by ablaut of the stem formant. Among the noteworthy instances are the following:

- nom. sing. masc. *h*-, *r*-, *n*-, and *ai*-stems, which also drop the final consonant: YAv. *na're.man-ā* (< *-āh*) ‘having manly thoughts’, OAv. *p-tā* < *p-tar-* ‘father’, *a'riiā-mā* < *a'riia-man-* ‘A'riiāman’, *kauu-ā* ‘kauui, poet’;
- nom.-acc. sing. neut. *n*- and *r*-stems have zero grade of the formant: *nā-mā* ‘name’ < *nā-mn̥*, *aii-ar<sup>2</sup>* ‘day’ < *ai-r*;
- nom.-acc. plur. neut. *h*-, *n*-, and *r*-stems have lengthened grade: YAv. *nā-mān* ‘names’, OAv. *aii-ār<sup>2</sup>* (YAv. *aii-ān*), *vaxii-ā* < *uahi-āh* ‘better things’;
- loc. sing. neut. *n/m*-stems also have (apparently) lengthened grade beside *-i*: OAv. *caš-mān* ‘in the eye’ (also *caš-mān-ī*), OYAv. *dām* ‘in the house’ (YAv. also *dām-i*).

TABLE 3.3.2: CASE ENDINGS: VOWEL STEMS

Vowel stems	<i>a</i> -stems	<i>ā</i> -stems	<i>ī</i> -stems	<i>i-lai</i> -stems	<i>u-lau</i> -stems
Sing.					
V	- <i>a</i> -∅	- <i>ai</i> -∅	- <i>i</i> -∅	- <i>ai</i> -∅	- <i>au</i> -∅
N	- <i>a</i> - <i>h</i>	- <i>ā</i> -∅	- <i>ī</i> -∅	- <i>i</i> -š, - <i>ā</i> -∅	- <i>u</i> -š, - <i>āu</i> -š
A	- <i>a</i> - <i>m</i>	- <i>ā</i> - <i>m</i>	- <i>īm</i>	- <i>i</i> - <i>m</i> , - <i>āi</i> - <i>am</i>	- <i>u</i> - <i>m</i> , - <i>āu</i> - <i>am</i>
NAn	- <i>a</i> - <i>m</i>			- <i>i</i> -∅	- <i>u</i> -∅
G	- <i>a</i> - <i>hja</i>	- <i>ā</i> - <i>iā</i> - <i>h</i>	- <i>iā</i> <i>h</i>	- <i>ai</i> -š, - <i>i</i> - <i>ah</i>	- <i>au</i> -š, - <i>u</i> - <i>ah</i>
Ab	- <i>āt</i>	[- <i>ā</i> - <i>iā</i> - <i>t</i>	- <i>iāt</i>	- <i>ai</i> - <i>t</i>	- <i>au</i> - <i>t</i> , - <i>u</i> - <i>at</i> ]
D	- <i>āi</i> (- <i>a'</i> <i>ai</i> )	- <i>āi</i> (- <i>ā</i> - <i>iā</i> - <i>i</i> )	- <i>iāi</i>	- <i>ai</i> - <i>ai</i> , - <i>i</i> - <i>ai</i>	- <i>au</i> - <i>ai</i> , - <i>u</i> - <i>ai</i>
I	- <i>ā</i>	- <i>ā</i> (- <i>a</i> <i>i</i> - <i>ā</i> )	- <i>ī</i>	- <i>ī</i>	- <i>ū</i> , - <i>uā</i>
L	- <i>a</i> - <i>i</i>	- <i>ā</i> - <i>i</i> - <i>ā</i>		- <i>ā</i> -∅	- <i>au</i> , -∅
Plur.					
NV	- <i>ā</i> (- <i>ā</i> <i>hah</i> )	- <i>ā</i> - <i>h</i>	- <i>ī</i> š	- <i>ai</i> - <i>ah</i> , - <i>āi</i> - <i>ah</i>	- <i>au</i> - <i>ah</i> , - <i>āu</i> - <i>ah</i>
A	- <i>a</i> - <i>ṇh</i>	= N	= N	- <i>i</i> - <i>n</i> š	- <i>u</i> - <i>n</i> š
NAn	- <i>ā</i>			- <i>ī</i>	- <i>ū</i>
G	- <i>ān</i> - <i>a</i> ā <i>m</i>	- <i>ān</i> - <i>a</i> ā <i>m</i>	- <i>īn</i> - <i>a</i> ā <i>m</i>	- <i>i</i> - <i>n</i> - <i>a</i> ā <i>m</i>	- <i>u</i> - <i>n</i> - <i>a</i> ā <i>m</i> , - <i>u</i> - <i>a</i> ā <i>m</i>
DAb	- <i>ai</i> - <i>b</i> <i>jah</i>	- <i>ā</i> - <i>b</i> <i>jah</i>	- <i>ī</i> - <i>b</i> <i>jah</i>	- <i>i</i> - <i>b</i> <i>jah</i>	- <i>u</i> - <i>b</i> <i>jah</i>
I	- <i>āi</i> š	- <i>ā</i> - <i>bi</i> š	- <i>ī</i> - <i>bi</i> š	- <i>i</i> - <i>bi</i> š	- <i>u</i> - <i>bi</i> š
L	- <i>ai</i> -š <i>u</i>	- <i>ā</i> -š <i>u</i>	- <i>ī</i> -š <i>u</i>	- <i>i</i> -š <i>u</i>	- <i>u</i> -š <i>u</i>
Dual					
NAV	- <i>ā</i>	- <i>ai</i>	- <i>ī</i>	- <i>ī</i>	- <i>ī</i>
NAn	- <i>ai</i>				
G	- <i>ai</i> - <i>ā</i> <i>h</i>	- <i>ai</i> - <i>ā</i> <i>h</i>		- <i>i</i> - <i>ā</i> <i>h</i>	- <i>u</i> - <i>ā</i> <i>h</i>
DIAb	- <i>ā</i> <i>bi</i> ā	- <i>ā</i> <i>bi</i> ā	- <i>ī</i> - <i>bi</i> ā	- <i>ī</i> - <i>bi</i> ā	- <i>u</i> - <i>bi</i> ā
L	- <i>ai</i> - <i>ah</i>				- <i>u</i> - <i>ah</i>

Note that the endless instr. sing. and the nom.-acc. plur. neut. probably had an original final laryngeal *-H*.

### 3.1.5.2 Endings in *b*-

Several endings have an original initial *b*- (see Tables 3.3.1–2; pronominal forms, see Table 3.3.5). In Young Avestan, the forms with *b* are common in all positions, but must be due to analogy, as the forms with *-b*- are phonetically expected only after consonant (-*ṇbi*š, -*i*.*bi*š, etc.). After vowels, *b* became *β* > *u* (*uu*), which is still frequently preserved (see Skjærvø 2007a): dat.-abl. plur. *xštəuui-βiiō* (<*xštəuui*-, a mythological people), *vōiyṇā-ūiiō* < *vōiyṇā*- (a kind of natural disaster, flood?), *rasma-oiō* (<*rasman*- ‘battle line’); note also the pronominal dat. sing./plurs. *māuuōiia* (<*maβiā* ‘for me’), etc.; – dat.-abl.-instr. dual *bāzu-βe* < *-biā* < *bāzu*- ‘arm’; – instr. plur. *-βi*š > *-u*iš (\**-aoi*š): *vaṇuhi*š < *vaṇhu*- ‘good’. The forms *vāγž’l’biō*, instr. *vāγžibi*š < *vak*- ‘word’ must have replaced forms such *vāγ-βiō* and \**vāγ-βi*š > \**vaoiō* and \**vauui*š.

The *n*-stem forms such as *nāmēni*š < *nāman*- ‘name’, *ašaonī*š < *ašaouan*- ‘Orderly’ I believe are analogical replacements for *nāməu*iš, *ašaəu*iš (see Skjærvø 2007a).

The expected forms of the *ah*-stems, \**-az*-*bi*š and \**-az*-*b**jah*, were replaced by *-ēbi*š, *-ēbiiō*, as if *-ah* + *bi*š.



### 3.1.5.3 Added -ǎ

In Young Avestan, a final -ǎ can be added to the acc. sing. (*vārəm-a* ‘\*according to pleasure’) and the abl. sing. (-ǎδ-*a*, -*mənd-a*), with the specific meaning ‘all the way to, up to and including, throughout’ (see section 5.4.6.3). Old Avestan also has dat. sing. -*āi* and -*āi.ā*.

In the loc. sing./plur. we find the particle in all three languages: OAv. (only sing.) *xʷā0rōii-ā* ‘in good breathing space’; YAv. *gātauu-a*, OP. *gā0av-ā* ‘in place’; – YAv. *gātušuu-a*, OP. *dahyušuv-ā* ‘among the lands’.

This particle may be identical with OAv. *ā*, used to emphasise ‘here and now/there and then’(?), which is combined with a variety of local (temporal) cases.

### 3.1.6 Individual declensions

Following are some notes on special features of individual declensions. For further details, see Hoffmann and Forssman 1996, Skjærvø 2007b.

#### 3.1.6.1 The *i*- and *u*-stems

Most *i*- and *u*-stems have ablauting (proterokinetic) stem formants -*i-l-ai-* and -*u-l-au-*, except a small set with hysterokinetic ablaut -*i-l-ia-* and -*u-l-ua-* (see section 3.1.1.4, Table 3.3.3).

The forms are distributed somewhat differently in Old and Young Avestan; thus, some masc. *u*-stems have gen. sing. from -*aus* in Old Avestan, but from -*uah* in Young Avestan: OAv. *xrat-əuš*, *pas-əuš*; YAv. *xra0β-ō*, *pas-uūō* < *xratu-* ‘wisdom’, *pasu-* ‘sheep’; OAv. instr. sing. *xratū*, OYAv. *xra0β-ǎ*. The masc. *pasu-* ‘sheep’ also has the irregular nom.-acc. plur. *pas-uūō* (OInd. acc. plur. *paśvas*).

On various aspects of *u*-stems see also Pirart 1993; Tremblay 1998; de Vaan 2003, §§16.3.1–2; Skjærvø 2005a.

A special hysterokinetic *i*-stem is *raǐ-* ‘wealth’ < *raHi-*, which has the two stems *raē-* < *raHi-* and *rāii-* (shortened *rāii-*) < *raHǐ-*.

#### 3.1.6.2 Monosyllabic and polysyllabic *ai*- and *au*-stems

Monosyllabic *au*-stems include the well-attested *gau-* ‘cow’ and *dǐau-* ‘heaven’ (only gen. sing. *dǐiaoš*); *nau-* ‘ship’ is absent from the OIr. corpus; *gau-* is inflected as consonant stem, with standard strong and weak case forms, but acc. sing. *gqm*, plur. *gǎ* (OInd. *gām*, *gās*).

Old Iranian has a few polysyllabic *ai*- and *au*-stems (traditionally classified as subsets of *i*- and *u*-stems), which take the long grade of the stem formant in strong cases and proter- or hysterokinetic forms in the weak cases (the distribution of lengthened and full grade in Avestan is obscured by shortening and lengthening of *a* and *ā*), among them the proterokinetic *hax-ai-* ‘companion’ with strong stem < *sakH-ai-*, weak stem *haš-* < *hač-ǐ-* < *sakH-ǐ-*, and *kau-ai-* ‘poet’; and the hysterokinetic *dahi-au-* ‘land’. See Table 3.3.3 (only attested forms).

Old Avestan also has *hi0-au-* ‘\*cord-master’ with nom. sing. *hi0-āu-š*, acc. sing. *hi0-ctm*, and proterokinetic YAv. abl. sing. *hi0-uua-tt* (?).

TABLE 3.3.3: *ai-* AND *au-* STEMS, PROTEROKINETIC *i-* AND *u-* STEMS

	<i>ai-</i> stems endings	<i>kau-ai-</i>	<i>hax-ai-</i>	<i>au-</i> stems endings	<i>dahj-ai-</i> Avestan	Old Persian
Sing. V						
N	-ā	<i>kauuā</i>	<i>haxā</i>	-āu-š	<i>dahjuš</i>	<i>dahayāuš</i>
A	-āi-am	<i>kauuaēm</i>	<i>haxāim</i>	-āu-am	<i>dahjaom</i>	<i>dahayāum</i> , <i>dahayāvam</i> (° <i>dahayum</i> )
G				-au-š	(OAv. <i>daxiiūm</i> ) <i>dahhaoš</i>	<i>dahayauš</i>
Ab				-au-t	<i>dahhaoṭ</i>	
D	-i-ai		<i>haše</i>	-au-ai	<i>dahhaoe</i>	
L				-au	<i>dahhō</i>	<i>dahayauv-ā</i>
Plur. NV	-āi-ah	<i>kāuuaiiō</i>	<i>haxaiiō</i>	-āu-ah		<i>dahayāva</i>
A				-ū-š		<i>dahayāva</i>
G	-i-a'ām	<i>kaouiqm</i>	<i>hašqm</i>	-ū-na'ām	<i>daxiiunqm</i>	<i>dahayūnām</i>
L				-u-šu		<i>dahayušuv-ā</i>
Dual NAV				*-ā-u-ā	<i>dahju</i>	
	Proterokinetic <i>i-</i> stems endings	<i>pai-, kaui-</i>	<i>ra'i-</i>	Proterokinetic <i>u-</i> stems endings	<i>xratu-, pasu-</i>	
Sing. N			<i>raēš</i>			
A			<i>raēm</i>			
G	-i-ah		<i>raiiō</i>	-u-ah	<i>xraθβō</i>	
D	-i-ai	<i>pa'oe</i>		-u-ai	<i>xraθβε</i>	
I	-i-ā		<i>raia</i>	-u-ā	<i>xraθβā</i>	
Plur. NA			<i>raiiō</i>	-u-ah	<i>pasuuō</i>	
A			<i>raēš</i>			
G	-i-a'ām	<i>kaouiqm</i>	<i>raiqm</i>	-u-a'am	<i>xraθβqm</i>	

## 3.1.6.3 Holo-kinetic stems

These include the following stems:

- the laryngeal stem *pantā-lpaθ-* 'path' (<*pant-aH-*, *pnt-H-*): nom. sing. *pant-ā* (<*pant-ā-h* <*pant-aH-s*) acc. sing. *pant-qm*, instr. sing. *paθ-ā* (<*pnt-H-ā*);
- a few nouns with stem formant *-Han-*: *marta-Han-* 'accompanied by death(?)': nom. plur. *mar<sup>o</sup>t-ān-ō* (<*marta-Hān-as*), gen. sing. *mar<sup>o</sup>θ-n-ō* (<*mart-Hn-as*);
- a few neut. *u-* stems: *dā<sup>o</sup>r-u-* 'tree, wood', *āii-u-* 'life span', *zān-u-* 'knee' (sing. nom.-acc. YAv. *dā<sup>o</sup>r-u*, *āii-u*, gen. *drao-š*, *yao-š*; dat. *yauu-e/yao-e*, instr. *yauu-a*, loc. *drao<sup>o</sup>*; plur. dat.-abl. *žnu-biias<sup>o</sup>*; cf. Gk. *doru* 'wood', *gonu* 'knee').

3.1.6.4 *r-* stems

The masc. *r-* stems have nom. sing. with lengthened grade of the formant and zero ending. The *r-* stems comprise the following (relatively few forms attested):

- words denoting kinship: OAv. *p<sup>(tu)</sup>tar-*, YAv. *pitar-*, *mātar-*, OAv. *dug<sup>3</sup>dar-/YAv. duγ<sup>3</sup>dar-*, *x<sup>3</sup>aγhar-*, *brātar-*, *naptar-* ‘grandson’, as well as *nar-* ‘man’; these have full grade *-ar-* in strong cases and zero grade *-r/ṛ-* in weak cases;
- agent nouns in *-tar-*: *pātar-* ‘protector’, *dātar-* ‘maker, creator’, as well as *star-* ‘star’ have lengthened grade *-ār-* in strong cases.

Both types behave partly like vowel and partly like consonant stems: nom. sing. *-ā-*; hysterokinetic sing. gen. *-rah*, *-rai* (YAv. *piθrō*, OAv. *f<sup>3</sup>δrōi*, YAv. *dāθrō*, *dāθre*); acc. plur. *-ah*; – acc. plur. *-ṛnš* (OAv. *nəraqš*); proterokinetic gen., dat. sing. *-ṛš*: OAv. *nə<sup>3</sup>š*, YAv. *narš*; *sāstarš* < *sāstar-* ‘false teacher’ (weak stem *sāθr-*).

*ātar-* ‘fire’ was probably originally a neuter *r*-stem, with nom.-acc. sing. *\*ātṛ*, to which masc. endings were added: nom. *ātṛ-š*, acc. *ātṛ-am* > Av. *ātarš*, *ātrəm* (Hoffmann and Narten 1989: 73 n.126).

### 3.1.6.5 Stem-formants containing *n*

These comprise the stem formants *-an-*; *-jan-*; *-yan-*, *-man-*; *-ant-*, *-yant-*, *-mant-*; *-ank-*, *-jank-*.

In the zero grade of the formant, the *n* when between consonants is vocalised to *ṇ* > *a*, producing the alternations *-ān-l-an-l-n-l-a-*; *-ānt-l-ant-l-at-*; *-ānk-l-ānc-l-āk-l-āc-* (*-ac-*), *-i<sup>3</sup>ānk-l-i<sup>3</sup>ānc-l-īk-l-īc-*.

#### 3.1.6.5a Stems in *-an-*

YAv. f. *xšapan-* ‘night’ and m. *asan-* ‘stone, sky’: sing. nom. *xšapa*, acc. *xšapanəm*, *asānəm*, gen. = plur. acc. *xšafnō*, *ašnō*, plur. loc. *xšapōhuua* (< *xšapahu* + *-a*).

#### 3.1.6.5b Stems in *-jan-*

The masc. and fem. *jan*-stems have nom. sing. in *-jā* > Av. *-je*: m. *fraγrasiiān-* (proper name): sing. nom. *fraγrase*, acc. *fraγrasiiānəm* (only forms); – f. *kaniian-* ‘young woman’: sing. nom. *ka<sup>3</sup>ne*, acc. *ka<sup>3</sup>nīnəm*, gen. = plur. nom. *ka<sup>3</sup>nīnō* (sing. gen. also *kanii<sup>3</sup>*).

#### 3.1.6.5c Stems in *-yan-*, *-man-*, *-Han-*

Example: *ašāuuān-* m. ‘righteous’: sing. nom. *ašāuuā*, acc. *ašāuuānəm*, sing. gen. = plur. acc. *ašāonō* and *ašāunō* (< *-yan-*), plur; dat.-abl. *ašāuuabiīō* (< *-ṇb-*); *manθraHan-* ‘keeper of the *maqθra*’: sing. nom. *maqθrā* = *maqθra<sup>3</sup>* (< *manθra-Hā*), dat. *maqθrāne* (< *manθra-Hn-ai*).

The neuter stems have sing. loc. and plur. nom.-acc. with lengthened grade and zero ending, beside forms with ending *-i* (see section 3.1.5.1).

Because of the morphophonological vagaries of Ir. *y*, the *yan*-stems are sometimes no longer recognizable as such, e.g. Av. *span-lspa-lsūn-* ‘dog’ (< *éyan-léyṇ-léun-*; *ruθβan-* ‘entrails’ < *ruθyan-*; – YAv. *aθaryan-*, a kind of priest: strong stem *āθrauuān-*, weak stem *aθa<sup>3</sup>run-*.

The voc. sing. of *yan*-stems ends in *-um* (*-əm*), with the final *-n* apparently assimilated to the preceding *y(ə)*: *ašāum* < *ašāyan* ‘Orderly’, *yum* < *yuyan* ‘youth’, *āθraom* < *āθrayan*, *θrizafəm* < *θri-zaf-yan* ‘three-mouthed’.

## 3.1.6.5d Stems in -ant-

These differ from the *n*-stems in having nom. sing. in -*S*, but are otherwise similar to the *uan*-stems. The *ant*-stems include adjectives and present and aorist participles (these have no ablaut when from thematic verbs).

The nom. sing. varies: adjectives have YAv. -*ō* and forms from -*anh*, pronouns and present participles -*qs* (see section 2.3.2.6). Acrostatic presents have the weak stem throughout (OAv. *stauuas* < *stáu-nt-s* < *stcu-* ‘praise’).

## 3.1.6.5e Stems in -uant-, -mant-, -Hant-

Stems in -*uant-*, -*mant-* have sing. nom. and voc. from stems in -*uah-l-mah-*: YAv. sing. nom. *druuā* < -*uāh*, voc. *druuō* < -*uah*, acc. *druuaṇtəm*, gen. *druuatō* < *drug-uant-* ‘possessed by the lie’; *maza-Hānt-* ‘big’: YAv. sing. masc. acc. *mazāṇtəm* (*mazāṇtəm*), neut. nom.-acc. *mazāt* (< *maza-Hnt*).

## 3.1.6.5f Stems in -Hank-, -iHank-

Most of these are derived from preverbs denoting direction, but also from other words. They have various unusual features: sing. nom. in -*š* with loss of the velar (cf. *ant*-stems); neut. sing. nom.-acc. in -*gʷt*; palatalisation in sing. acc., plur. nom.: sing. nom. *parqš* ‘away < *parān(k)-š*, neut. *parāgʷt* (see section 2.1.2.1); sing. acc. *niiāncim* (< -*cam*) ‘downwards’, plur. nom. *niiāncō*.

## 3.1.6.6 Stems in -ah-, -iah-, -uah-

Most of the *ah*-stems are neuter (cf. Gk. *genos*, etc.) and masculine only in compounds. They take the full grade throughout, except in the plur. nom.-acc. (*manā* < -*āh* ‘thoughts’) and masc. sing. nom. *na're.manā* ‘with manly thoughts’.

The *iah*-stems are comparatives (see section 3.2) and the *uah*-stems perfect participles (see section 4.6.1.2). They both take the lengthend grade in the strong cases, but only *uah*-stems have zero grade -*uš-*.

3.1.6.7 Neuter *r/n*-stems

The archaic heteroclitic neut. *r/n*-stems have *r*-stem nom.-acc. sing. and *r-* or *n*-stem nom.-acc.plur.: *aiiar* ‘day’, gen. sing. *aiiq* (< -*aṇh*), nom.-acc. plur. OAv. *aiiār*<sup>5</sup>, YAv. *aiiqn*; OAv. *luuar*<sup>5</sup> ‘sun’, gen. *xʷəng*, YAv. *hū* (disyllabic < *huʷ-ar*, *huʷ-aṇh*). Note OAv. *rāzar-* ‘\*straightness’, sing. instr. *rašnā*; Old Persian \**vazar-* ‘greatness’ (in *vazar-ka-* ‘great’), sing. instr.-abl. *vašnā* ‘by the greatness (of Ahuramazdā)’.

## 3.1.6.8 Stems in laryngeals

Indo-Iranian laryngeal stems ending in vowels plus laryngeal became long vowel-stems in the attested corpuses: *aH* > *ā*, *iH* > *ī*, *uH* > *ū*.

Before endings in vowels, the lost laryngeal left a hiatus, e.g. *mazdaH-* ‘omniscient’: acc. sing. *mazdaH-am* > OAv. *mazdam* (3 syllables); gen. sing. *mazdaH-as* > *mazda'ah*, OAv. *mazdā* (3 syllables) > YAv. *mazdā* (2 syllables); – OPers. nom.-acc. plur. *aθa'gainīya<sup>h</sup>* < -*iHah* ‘of stone’; – *tanuH-* ‘body’: gen. sing. *tanuH-ah*, OAv. *tanuuas*<sup>o</sup>. See also on *pantaH* in section 3.1.6.3.

TABLE 3.3.4: EXAMPLES OF STEMS IN STOPS

*ap-* ‘water’, *ʁak-* ‘voice, word’, *drug-* ‘(the cosmic) deception’, *xšnut-* ‘\*satisfaction’, n. *ast-* ‘bone’, *stut-* ‘praise’, °*brt-* ‘carrying, riding’, fem. derivatives in *-tāt-*:

Sing.				
NV	<i>āf-š</i>	<i>ʁāx-š</i>	<i>druχ-š</i>	<i>xšnu-s</i>
A	<i>āp-am</i>	<i>ʁāč-am</i>	<i>druč-am</i>	<i>xšnut-am</i>
NAn				<i>as</i>
G	<i>ap-ah</i>	<i>ʁač-ah</i>	<i>druč-ah</i>	<i>stut-ah</i>
Ab	<i>ap-at</i>		<i>druč-at</i>	° <i>brt-at</i>
D	<i>ap-ai</i>			
I	<i>ap-ā</i>	<i>ʁač-ā</i>		
L	<i>ap-i</i>			
Plur.				
NV	<i>āp-ah</i>	<i>ʁāč-ah</i>	<i>druč-ah</i>	<i>stut-ah</i>
A	<i>ap-ah</i>	<i>ʁač-ah</i>		<i>stut-ah</i>
NAn				<i>ast-i</i>
G	<i>ap-ā'am</i>	<i>ʁač-ā'am</i>	° <i>druč-ā'am</i>	<i>stut-ā'am</i>
DAh	<i>a(p)-hjah</i>	* <i>ʁag-bjah</i>		° <i>brd-bjah</i>
I	<i>a(p)-biš</i>	* <i>ʁag-biš</i>		<i>azd-biš</i>
L	<i>af-šu</i>			
Dual				
NAV	<i>āp-ā</i>			° <i>tātā</i>
G				° <i>tād-ātāh</i>
DIAb		* <i>ʁag-bjā</i>		° <i>tad-bjā</i>

### 3.1.6.9 Other consonant stems

The stems in other stops are fairly regular. Examples are seen in Table 3.3.4 (reconstructed proto-Iranian).

In Old Persian, where final groups were apparently not allowed, some words may have been transferred to other declensions (see Section 2.2.2.1).

The two *m*-stems *zam-* ‘earth’ and *ziam-* ‘winter’ have sing. nom. *zā* and *ziā* and weak stems *z'm-* (monosyllabic, *-sm-* in compounds) and *zim-* (often confused in the mss.); *-dam-* ‘house’ has gen. sing. OAv. *dəng* (<*danh* < *dam-s*), YAv. loc. sing. *dam*, *damī*.

### 3.1.6.10 Suppletive stem-systems

There are various kinds of suppletive stem-systems, e.g.:

- alternating vowel and consonant stems: Av. *zā-/zam-* ‘earth, ground’, *ziā-/ziam-* ‘winter’; OAv. *sauua-/sauuah-* (in complementary distribution) ‘life-giving strength’, *ušā-/ušah-* ‘dawn’, YAv. *kaniīā-/ka'nīn-* ‘young woman’; OPers. *āpī-/āp-(?)* ‘water’;
- alternating consonant stems: *ntls-* stems, *tls-*, and *tn-* (*napah-/napat-/naptar-* ‘grandchild, scion’; °*carat-/°caran-*); neut. *rn-* stems.

## 3.2 Adjectives: comparative and superlative

The comparative and superlative of adjectives (including participles) and adverbs is made either with the suffixes *-īyah-* and *-išta-* or with the productive type *-tara-* and *-təma-*. The

suppletive type Eng. *good* vs. *better*, is attested in OPers. *vazarka-* ‘great’, *maθ-išta-* ‘greatest’.

The comparative/superlative in *-tara-l-təma-* is made from the (weak) stem of adjectives or adverbs and with appropriate sandhi before the ending: YAv. *ama-uuas-tara-l-təma-* ‘more/most powerful’ (*-uuast-* < *-uñt-t-*); *hudās-təma-* < *hudāh-* ‘giving good gifts’; *yāskər<sup>s</sup>-tara-l<sup>o</sup>təma-* < *yās-kər<sup>s</sup>-t-t-* ‘performing (well) at the audition’; YAv. *tauruuāiḡs-təma-* < *<sup>o</sup>iiañt-t-* ‘overcoming, victorious’, YAv. *hubao<sup>i</sup>ḡi-tara-l<sup>o</sup>təma-* ‘more/most fragrant’; OPers. *apa-tara-* ‘farther’; YAv., OPers. *fra-tara-* ‘ahead (of)’, Av. *fra-təma-*, OPers. *fra-tama-* ‘foremost’.

The comparative/superlative in *-iih-l-išta-* is made from the root in the full grade. Adjectives with suffixes lose these: Av. *ak-a-*: *aš-iih-* (< *aš-iih-*), *ac-išta-* ‘more/most evil’; *bū-ri-* ‘plentiful’: *baō-iih-*, *dbō-išta-* < *du-*); *driy-u-* ‘poor’: *draēj-išta-*; *spəñ-ta-* ‘life-giving’: *span-iih-*, *spəñ-išta-*; *drug-uñant-* ‘possessed by the Lie’: *draoj-iih-*, *draoj-išta-*. Forms from pres. parts. (or verbal nouns) include *bār-išta-* ‘who carries most often’ < *bar-əñt-* ‘carrying’, OPers. *tauv-iiyah-* ‘mightier’ < *tu-nu-va<sup>n</sup>-t-* ‘who has power’.

From roots with laryngeals we have forms such as the following: Av. *dar<sup>3</sup>ya-* ‘long’ (< *d<sup>r</sup>H-ga-*): *drāj-iih-*, *drāj-išta* (< *draHg-*); *ād-ra-* ‘needy’ (< *ṇHd-ra-*): *nā<sup>d</sup>-iih-* (< *naHd-*): *po<sup>r</sup>ru-* ‘much’ (< *pr<sup>r</sup>H-u-*); *frā-iih-*, *fraēšta-* (< *praH-iah-*, *praHišta-*).

A few adjectives have both kinds of superlative, but with different meanings: OAv. *po<sup>r</sup>ru-təma-* ‘in highest numbers’; *spəñtō.təma-* ‘having the name *spəñta-* in the highest degree(?)’; YAv. *aka-tara-* ‘worse (for sb.)’.

Double superlative: YAv. *draēj-ištō-təma-* ‘the poorest of the poor’.

### 3.3 Adverbs

Adverbs can be invariable particles or forms of adjectives (also comparative and superlative) or other words:

- underived: Av. *mošū* ‘soon, quickly’; OAv. *nū*, OYAv. *nūrəm*, OPers. *nūram* ‘now’;
- nom.-acc. neut. sing. of a noun or adjective: OYAv. *vasō* ‘at will’ (< *vasah-* ‘will’); YAv. *daršaṭ*, OPers. *daršam* ‘vigourously’; YAv. *po<sup>r</sup>rum* ‘in front’, OPers. *paruvam* ‘before’;
- abl. and loc. sing.: Av. *dūrāṭ*, OPers. *dūradaš* ‘from afar’; Av. *dūrē* ‘in the distance’, OPers. *dūraiṭ* (*apiṭ*) ‘far (and wide)’;
- ending *-S* (Schindler 1987): OAv. *ər<sup>s</sup>*, YAv. *arš* ‘straight’ (< *Hrj<sup>3</sup>-š*);
- compounds: YAv. *yaθā.kər<sup>s</sup>təm* ‘as it is done’, OPers. *pasāva* (< *pasā-ava*) ‘afterward’.

Adverbs of place and manner are made from adjectives, pronouns and preverbs with suffixes: *-Ora*, *-Oa*, *-da*, *-dāt* (OPers. *-daš*), and *-tah*, e.g.: Av. *ya-Orā* ‘where’; *ka-θā* ‘how?’; OAv. *a-dā* ‘then’, OPers. *ava-dā* ‘there’; YAv. *a-ḡāṭ* ‘from there’, OPers. *dūra-daš* ‘from afar’; Av. *aiβi-tō* ‘all around’, OPers. *a<sup>h</sup>ma-ta<sup>h</sup>* ‘from that (place)’.

Comparative and superlative: *bāḡa* ‘\*sometimes, \*again and again’, sup. *bā<sup>i</sup>ḡ-ištəm*; *fra-* ‘forward’: comp. *fratarəm*, sup. *fratəməm*.

See also section 9.1.2.2 Adverbial *āmreḡita* compounds.

### 3.4 Pronouns

There are personal, possessive, demonstrative, reflexive-reciprocal, relative, interrogative and indefinite (indefinite relative) pronouns, most of them of the Indo-Iranian type.

3.4.1 Personal pronouns

The personal pronouns distinguish three persons; the 3rd person distinguishes three genders. All persons have tonic and non-tonic enclitic forms (see Tables 3.3.5–6).

TABLE 3.3.5: 1ST AND 2ND PERSON PERSONAL PRONOUN

Sing.	1st pers.		2nd pers.	
		encl.		encl.
V			<i>tū</i>	
N	<i>aJam</i>		<i>tūJam</i>	
A	<i>mām</i>	<i>mā</i>	<i>0yām</i>	<i>0yā</i>
G	<i>ma-na</i>	<i>mai</i>	<i>taJa</i>	<i>tai</i>
Ab	<i>ma-t</i>		<i>0ya-t</i>	
D	<i>ma-bJa(h)</i>	<i>mai</i>	<i>ta-bJah</i>	<i>tai</i>
L			<i>0ya(i)i</i>	
Plur.				
N	<i>vajam</i>		<i>jūž-am</i>	<i>jūš</i>
A	<i>ahmā</i>	<i>nāh</i>		<i>yāh</i>
G	<i>ahmākam</i>	<i>nah</i>	<i>jūšmākam</i>	<i>yah</i>
D	<i>ahma-bJa</i>	<i>nah</i>	<i>jūšma-bJa, šma-bJa</i>	<i>yah</i>
Ab	<i>ahma-t</i>		<i>jūšma-t, šma-t</i>	
I	<i>ahmā</i>		<i>šmā</i>	
Dual				
NAV	<i>āyā(?)</i>			
G			<i>juyākam</i>	

TABLE 3.3.6: 3RD PERSON PRONOUNS

Sing.	Tonic:			Enclitic		
	m.	n.	f.	m.	n.	f.
N	<i>*ha, *ha-h</i>	<i>ta-t</i>	<i>hā</i>	–	<i>it</i>	<i>hī</i>
A	<i>ta-m</i>	<i>ta-t</i>	<i>tām</i>			
G	<i>a-hJa</i>		<i>a-hJ-āh</i>	<i>hailšai</i>	<i>hailšai</i>	<i>hailšai</i>
Ab	<i>a-hm-āt</i>		<i>a-hJ-āt</i>			
D	<i>a-hm-āi</i>		<i>a-hJ-āi</i>	<i>hailšai</i>	<i>hailšai</i>	<i>hailšai</i>
I	<i>a-nā</i>		<i>a-jā</i>			
L	<i>a-hm-i</i>		<i>a-hJā</i>			
Plur.						
N	<i>tai</i>	<i>tā</i>	<i>tā-h</i>			
A	<i>ta-gh</i>	<i>tā</i>	<i>tā-h</i>	<i>inš (dinš)</i>	<i>ī</i>	<i>hīš*šīš</i>
G	<i>ai-š-a'am</i>		<i>ā-h-a'am</i>			
DAb	<i>ai-bJah</i>		<i>ā-bJah</i>			
I	<i>tāiš</i>		<i>ā-biš</i>			
L	<i>ai-šu</i>		<i>ā-hu</i>			
Dual						
NAV	<i>tā</i>	<i>tai</i>	–	–	<i>hī</i>	<i>hī</i>

There are three 3rd-person demonstrative pronouns: *ha-* (*ša-)/ta-*, *i-* (*hi-lši-*, *dī-*), and *a-*. Some forms are poorly attested and difficult to classify.

*ha-/ta-* serves as 3rd-person personal pronoun and weakly deictic ‘that’, but is often difficult to distinguish from the far-deictic demonstrative pronouns; *i-* is only enclitic; and *a-* is identical with the near-deictic demonstrative pronoun.

In Old Persian, the far-deictic pronoun is used as emphatic personal pronoun.

### 3.4.2 Possessive pronouns (adjectives)

Only Old Avestan has genuine possessive pronouns; these are derived from the oblique stems of the 1st and 2nd sing. personal pronouns by thematisation: *m-* ‘my’, *0βa-* (< *0ua-* > ‘thy’, and from *aka-* extensions of the oblique stems of the 1st and 2nd plur. personal pronouns: *ahmāka-* ‘our’, *xšmāka-* ‘your’. For the 3rd person, the genitive of the personal pronoun is used or the possessive reflexive pronoun *hya-* ‘his, her, its, their’.

In Young Avestan and Old Persian, the genitive of the personal pronoun is used.

### 3.4.3 Demonstrative pronouns

The demonstrative pronouns have a three-way deixis of varying emphasis, corresponding to 1st, 2nd and 3rd person:

- 1st-person deixis (near-deixis): *ima-la-* and *aēša-laēta-* ‘this’ (Latin *hic*, Spanish *este*);
- 2nd-person deixis (unclear): OAv. *hūuōlana-* ‘that near you’, also ‘derogatory’ (cf. Latin *iste*, Spanish *ese*);
- 3rd-person deixis (far-deixis): *hāulaūua-* ‘that (over there)’ (Latin *ille*, Spanish *aquel*).

All three have two (or more) stems, one reserved for the nom. masc. and fem., the other for the other cases, or a more complex distribution. See Table 3.3.7.

### 3.4.4 Relative pronoun

The relative stem is *ja-*, with nom.-acc. neut. OAv. *hūiaŋ* (with *h-* of unclear origin), YAv. *yaŋ* (rarely *hūiaŋ*). In Old Persian, *ja-* was univerbated with the demonstrative pronoun *ha-/ta-*: *haya-ltaya-* (cf. Adiego Lajara 2000). See Table 3.3.8.

### 3.4.5 Interrogative and indefinite pronouns

The stems *ka-/ca-* and *ci-* serve as interrogative pronouns (see Table 3.3.8) and, with enclitic *-ca* and *-ciŋ*, repeated, or negation, as indefinite pronouns: Av. *kas-ciŋ* ‘whoever’, OPers. *kaš-ciy*, *ciš-ciy* ‘anything’; *kataras-ciŋ* ‘each (of two)’; *ka-ka-* ‘each and every’; – negative and preventive: *nōiŋ kas-ciŋ*, *naē-ci-* ‘not any’, *mā-ci-* ‘let not any’.

Indefinite relative: OAv. *yō . . . ciš-ca* (sing. m.), *yōi . . . caiias-ca* (plur. m.) ‘whoever’, *yā . . . cī-ca* (plur. n.) ‘whichever’, *yahmāi . . . kahmāicīŋ* ‘to whom-so-ever’.

### 3.4.6 Reflexive pronouns and reciprocity

These are OYAv. *x’a-* and YAv. *hauua-* ‘own’; YAv. *x’ aēpa’0iia-* ‘own’; OPers. *huvai-pašiya-* ‘self’, *huvāi-pašiya-* ‘own’. The meaning of *tanū-* ‘body’ sometimes comes close to ‘own body, self’.



TABLE 3.3.7: DEMONSTRATIVE PRONOUNS

	Near-deictic (1st pers.) dem. pron <i>ima-la-</i> :			Far-deictic (3rd pers.) dem. pron <i>hau/aya-</i> :		
	m.	n.	f.	m.	n.	f.
Sing.						
N	<i>ajam</i>	<i>im-at</i>	<i>ijam</i>	<i>hāu</i>	<i>ay-a-t</i>	<i>hcu, hāu</i>
A	<i>im-am</i>	<i>im-at</i>	<i>im-ām</i>	<i>ay-a-m</i>	<i>ay-a-t</i>	<i>ay-ā-m</i>
G	<i>a-hja</i>		<i>a-h-īāh</i>	<i>ay-a-hja</i>		<i>ay-ah-īāh</i>
Ab	<i>a-hm-āt</i>		<i>a-h-īāt</i>			<i>ay-ah-īāt</i>
D	<i>a-hm-āi</i>		<i>a-h-īāi</i>			<i>ay-ah-īāi</i>
I	<i>a-nā</i>		<i>ajā</i>	<i>ay-ā, ay-a-nā</i>		
L	<i>a-hm-i</i>		<i>a-h-īā</i>			
Plur.						
N	<i>im-ai</i>	<i>im-ā</i>	<i>im-āh</i>	<i>ayai</i>	<i>ay-ā</i>	<i>ay-ā-h</i>
A	<i>im-aṛh</i>	<i>im-ā</i>	<i>im-āh</i>	<i>ay(a-ṛ)h</i>	<i>ay-ā</i>	<i>ayā-h</i>
G	<i>ai-š-a'am</i>		<i>ā-h'a'am</i>	<i>ay-aiš-a'am</i>		<i>ay-ā-bjah</i>
DAb	<i>ai-bjah</i>		<i>ā-bjah</i>			
I	<i>āiš</i>		<i>ā-biš</i>	<i>ay-āiš</i>		
L	<i>ai-šu</i>		<i>ā-hu</i>			
Dual						
NAV	<i>im-ā</i>			<i>ay-ā</i>		
G	<i>āh, ajāh</i>			<i>ay-āh</i>		
DIAb			<i>ābjā</i>			
Far-deictic (2nd pers.) dem. pron <i>hculana-</i>						
m.						
	Sing.	Plur.				
N	<i>hcu</i>					
I	<i>anā(?)</i>	<i>anāiš</i>				

Reciprocity is usually expressed by *aniia-* . . . *aniia-*, OPers. *aniya-* . . . *aniya-* ‘one . . . another, each other’ (see Jamison 1997).

### 3.4.7 Pronominal case endings

Pronouns have some case endings that differ from those of nouns, including the dat. sing./plur. ending *-bja(h)* in the pers. prons. 1st and 2nd (see also sections 2.3.1.2, 3.1.5.2); – neut. nom.-acc. sing. *-at* in poss. and dem. prons. (and pronominal adjs.); – masc. nom. plur. *-ai*; – masc.-neut. dat., abl. sing. formant *-hm-*; – fem. gen., dat., abl., loc. formant *-h-*; – gen. plur. masc. formants *-š-*, fem. *-h-*. See Tables 3.3.5–8.

There is at least one OAv. fem. sing. form in *-aē*: *x'aē°* ‘own’ (cf. latin *hae-c*).

## 3.5 Adpositions

Old Iranian has pre- and postpositions. Some of these are only prepositions, some are also preverbs, and some are derived from nouns, adjectives, or adverbs or particles. In some cases it is difficult to distinguish between adverbs, preverbs and adpositions. For examples, see section 5.4 Uses of Cases.

TABLE 3.3.8: RELATIVE AND INTERROGATIVE PRONOUNS

Relative pronouns:						
	m.	n.	f.	m.	n.	f.
Sing.						
N	<i>ī-ah</i>	<i>ī-a-t</i>	<i>īā</i>	<i>k-ah, čī-š</i>	<i>k-at, čī-t</i>	<i>kā</i>
A	<i>ī-am</i>	<i>ī-a-t</i>	<i>īā-m</i>	<i>k-am, čī-m</i>	<i>k-at, čī-t</i>	<i>kā-m</i>
G	<i>īa-hja</i>		<i>īa-h-īāh</i>	<i>ka-hja, č-ahja</i>		<i>ka-h-īāh</i>
Ab	<i>īa-hm-āt</i>		<i>īa-h-īāt</i>	<i>ka-hm-āt</i>		
D	<i>īa-hm-āi</i>		<i>īa-h-īāi</i>	<i>ka-hm-āi</i>		<i>ka-h-īāi</i>
I	<i>īā</i>			<i>kā, ka-nā</i>		
L	<i>īa-hm-i</i>		<i>īa-h-īā</i>	<i>ka-hm-i, č-ahmi</i>		<i>ka-h-īā</i>
Plur.						
N	<i>ī-ai</i>	<i>īā</i>	<i>īā-h</i>	<i>k-ai, čajah</i>	<i>kā, čī</i>	
A	<i>ī-aṅh</i>	<i>īā</i>	<i>īā-h</i>	<i>k-aṅh</i>	<i>kā</i>	
G	<i>ī-ai-š-a'am</i>		<i>īā-h-a'am</i>	<i>k-ai-š-a'am</i>		<i>kā-h-a'am</i>
DAb	<i>ī-ai-bjah</i>		<i>īā-bjah</i>	<i>k-ai-bjah</i>		
I	<i>īāiš</i>			<i>kāiš</i>		
L	<i>ī-ai-šu</i>		<i>īā-hu</i>			
Dual						
NAV	<i>īā</i>		<i>īai</i>			
G	<i>īa-īāh</i>					
Old Persian						
	m.	n.	f.			
Sing.						
N	<i>haya</i>	<i>taya</i>	<i>hayā</i>			
A	<i>tayam</i>	<i>taya</i>	<i>tayām</i>			
IAb	<i>tayanā</i>					
Plur.						
N	<i>tayaiy</i>		<i>tayā, tayaiy</i>			
A		<i>tayā</i>	<i>tayā</i>			
GD	<i>tayaišām</i>		<i>tayaišām</i>			

### 3.6 Numerals and measure

A relatively large number of cardinals, ordinals and other number words are attested in Young Avestan, while Old Avestan has hardly any. Of the Old Persian number words, only *aiva* 'one', is spelled out, but several Old Persian number words are found in Elamite texts.

#### 3.6.1 'One' to 'four'

'One' is expressed by the stems *aiya-* and *ha-* < *sṃm-* (see section 3.6.3.1):

- cardinal: Av. *aēuua-*, OPers. *aiva-*;
- ordinal: Av. *fra-təma-* 'foremost, first', OAv. *pa<sup>u</sup>ruuiia-*, YAv. *pao'riia-*, OPers. *paruiyiya-*.

'Two' and 'both': The number 'two' is expressed by the stems *d(u)ya-* and *dui-* (OAv. *d<sup>u</sup>bi-*, YAv. *bi-*):

- cardinal: YAv. *duua*, fem., neut. *duiie*, *duuaē°* (i.e. *dúya*, *dúyai*);
- ordinal: OAv. *d<sup>m</sup>bitiia-*, YAv. *bitiia-*, OPers. *duvitīya-*;

For ‘both’, OAv. has nom.-acc. masc. *ubā*, fem., neut. *ubē*; YAv. nom.-acc. masc. *uua*, fem., neut. *uiie* < *úya*, *úyai*); OPers. nom.-acc. masc. *ubā*.

YAv. also has the indecl. *uuaēm* ‘both’ (OInd. *ubhayam*).

‘Three’: The stem is *θri-*:

- cardinal: nom. masc. *Orāiiō*, fem. *tišrō*, neut. *Orī*;
- ordinal: Av. *Oritiia-*, OPers. *çitīya-* ‘for the third time’.

‘Four’: The stem is *čaθβar-/catur-* (YAv. *caθru°* in compounds):

- cardinal: nom. masc. *caθβārō*, fem. *catayrō*, neut. *catura*;
- ordinal: YAv. *tū’riia-* (< *ktrūja-*, cf. *ā-xtū’ rim* ‘a fourth time’).

‘One’ has pronominal declension; ‘two’ and ‘both’ are declined as dual *a*-stems (but OPers. plur. gen.-dat. *ubānām*); ‘three’ and ‘four’ have fem. forms with *-hr-/šr-* (see Table 3.3.9).

TABLE 3.3.9: DECLENSION OF NUMERALS

‘One’				
	m.	n.	f.	
N	<i>aēuuō</i>	<i>ōiium</i> , <i>ōim</i>	<i>aēuua</i>	
A	<i>ōiium</i> , <i>ōim</i>	<i>ōiium</i> , <i>ōim</i>	<i>aēuuqm</i>	
G		<i>aēuuahē</i>	<i>aēuuaijḥā</i>	
Ab		<i>aēuuahmāṭ</i>		
I		<i>aēuua</i>	<i>aēuuaia</i>	
L		<i>aēuuahmi</i>	–	
‘Two’				
	m.	n.	f.	
NA	<i>duua</i>	<i>duiie</i> , <i>duuaē°</i>	<i>duiie</i> , <i>duuaē°</i>	
DAbI		<i>duuaēibita</i>		
L		<i>duuaiiā</i>		
‘Three’				
	m.	n.	f.	
N	<i>Orāiiō</i>	<i>Orī</i>	<i>tišrō</i>	
A	<i>Oriš</i>	<i>Orī</i>	<i>tišrō</i>	
G		<i>Oraiiqm</i>	<i>tišraqm</i> , <i>tišranqm</i>	
DAb		<i>Oribiiō</i>	–	
‘Four’				
	m.	n.	f.	
N	<i>caθβārō</i>	<i>catura</i>	<i>catayrō</i>	
A	<i>caturā</i>	<i>catura</i>	<i>catayrō</i>	
G		<i>caturqm</i>		

### 3.6.2 The remaining numerals

The cardinals ‘five’ to ‘ten’: *pañca*, *xšuuas*, *hapta*, *ašta*, *nauua*, *dasa*; these have thematic gen. forms (*pañcanqm*, *nauuanqm*, *dasanqm*).

The ordinals (only YAv.) of ‘5’ and ‘6’ are characterised by the root vowel *u*: *puḫda-*, *xštūua-*. ‘Seventh’ has the formant *-0a-*: *hapta-0a-*; ‘eighth’ to ‘tenth’ the formant *-ma-*: *aštā-ma-*, *nao-ma-*, *dasə-ma-*.

Most of the numerals ‘11’ to ‘19’ are known only from the ordinals, which were identical with the cardinals: *aēuuān-dasa-*, *duua-dasa-*, *0ri-dasa-*, *ca0ru-dasa-*, *pañca-dasa-*, *xšuuāš-dasa-*, *hapta-dasa-*, *ašta-dasa-*, *nauua-dasa-*.

‘20’ is *vīsaiti*. ‘30’ to ‘50’ are compounds with <sup>o</sup>*satəm*: *0ri-satəm*, *ca0βar<sup>o</sup>-satəm*, *pañcā-satəm*. ‘60’ to ‘90’ are fem. *ti*-stems: *xšuuāš-ti-*, *haptā<sup>i</sup>-ti-*, *aštā<sup>i</sup>-ti-*, *nauua<sup>i</sup>-ti-*.

‘100’ and ‘1,000’ are neut. *a*-stems: *sata-*, *hazaḡra-*, with mixed plur. forms: *tišrō sata*, *ca0βārō sata*, *nauua hazaḡra*, etc. ‘10,000’ is neut. *baēuuar/n-*.

Compounded numerals are represented by *pañcā-ca vīsai<sup>i</sup>ti* ‘25’, *0raīias-ca 0risqs-ca* ‘33’, *pañcā-ca haptā<sup>i</sup>ti* ‘75’, *nauua-ca nauuad<sup>i</sup>ti* ‘99’.

Higher numerals include *duīie nauuad<sup>i</sup>ti* ‘180’ (two 90) and *nauua-ca . . . nauuaitiš-ca nauua-ca sata nauua-ca hazaḡra nauuasōs-ca baēuuar/n* ‘99,999’, which is the highest Av. number, there being no word for ‘100,000’.

### 3.6.3 Derived numerals

#### 3.6.3.1 Multiplicatives

Multiplicatives (‘times, -fold’) have simple and extended forms:

- ‘once’: YAv. *ha-kər<sup>2</sup>ḡ*, OPers. *ha-karam*; cf. Av., OPers. *hama-* ‘one and the same’;
- ‘twice’: YAv. *biš*, *biž-uuaḡ*; – ‘thrice’: YAv. *0riš*, *0riž-uuaḡ*; – ‘four times’: YAv. *ca0ruš*;
- ‘six/nine times’: *xšuuāš-aiia*, *naom-aiia*;
- the tens: *vīsaiti-uuā*, *0risa0-βā*, etc.

#### 3.6.3.2 ‘-th time’

The ‘2nd–4th time’ are formed from the ordinals with the prefix *ā-*: *ā-ḡbitīm/lā-ḡbitīm*, *ā-0ritīm*, *ā-xtūrīm*.

#### 3.6.3.3 Fractions

Fractions are made with the formant *-Sya-*: *0ri-šuuā-*, *ca0ru-šuuā-*, *paḡta-ḡ<sup>h</sup>ha-*, *hapta-huuā-*, *ašta-huuā-*. The same formation is attested for Old Persian by Elamite texts: < ši-iš-maš > = \**či-šuva-*, < ṣa-iš-šu-iš-ma > = \**čaṣuva-*, < aš-du-maš > = \**ašta<sup>h</sup>uva-*, etc. (Hoffmann 1965).

## 4 MORPHOLOGY II: VERBAL MORPHOLOGY

The Iranian verb inherited from Indo-Iranian the categories of aspect, tense, mood, voice, number, and person expressed by ‘finite’ forms of the verb, and non-finite forms, which behave like nouns (infinitives) or adjectives (participles).

Tenses and moods are expressed by endings and augment, while aspect is expressed lexically by different stems of the verb (see section 7.1).

Verb stems are classified as ‘thematic’, ending in *-a*, and ‘athematic’, ending in other vowels and diphthongs or in consonants. Athematic verbs are frequently thematised.

Most personal endings are the same in the two classes (the 2nd sing. act. is a noteworthy exception), with morphophonological changes in athematic verbs in clusters resulting from contact between the final consonant of the stem and the initial consonant of the ending.

The augment *a-*, which characterises an event as having taken place in the past, is found occasionally in Old Avestan (imperfect and aorist) and Young Avestan (imperfect), but regularly with the imperfect in Old Persian. In Young Avestan and Old Persian, it is also found with optative forms (see below).

#### 4.1 Stem classes

Each conjugation contains a miscellany of stem formations, most of which are no longer productive in Iranian.

Athematic verbs show ablaut in the root syllable, e.g. *jan-lgn-* ‘smash’, or in the stem formant, e.g. *-nau-l-nu-*, distributed as follows (with exceptions):

- lengthened grade is found in the acrostatic ‘Narten’ presents (but see de Vaan 2004), the *s*-aor. ind. sing., and in some 3s perf. forms;
- full grade is found in the singular in the pres., aor., and perf. ind., throughout the paradigms in the subj., and in the 2p pres. ind. and 3s and 2p imper.;
- zero grade is found in the dual and plur. of the pres., aor., and perf., in the 2s and 3p imper., and throughout the opt.

Ambikinetiç ablaut, apparently conditioned by (proto-Av.) stress patterns, is found in the 3p pres. and in the 2s and 3s opt. endings:

- zero grade of the root + full grade of the ending: Av. plur. *-ənti*, *-ən*, opt. *-ii̯*, *-ii̯ā*, etc. (e.g. *h-ənti*, *h-ii̯ā* < *ah-* ‘be’);
- full grade of the root (or reduplication) + zero grade of the ending: *-d’ti*, *-at*, *-tš*, *-i̯*, etc. (e.g. *dad-d’ti* < *dad-at* < *-nti*, *-nt*, *da’d-i̯*).

##### 4.1.1 Present stems

###### 4.1.1.1 Athematic present stems

Athematic present stems include the following:

1. root stems: Av. *ah-las-lh-* ‘be’, *ai-li-* ‘go’, *jan-lja-lgn-* ‘smash, strike’; *stau-lstu-* ‘to praise’; OPers. *ah-las-*, *ai-*, *jan-*;
2. reduplicated stems:
  - stems with ‘light’ reduplication *CV-*: Av. *da-δā-l-da-δ-* ‘give, place’, *hišhak-lhišc-* ‘follow’ (with *hišhak-* for *hi-šak-* < *Sak-*); OPers. *da-dā-*;
  - ‘intensive’ stems with ‘heavy’ reduplication *CVC-*: Av. *zao-zao-l-zao-zu-* ‘keep calling’, *car<sup>2</sup>-kar-l-car<sup>2</sup>-kər<sup>2</sup>-* ‘keep praising’;
3. stems with *n*-infixes:
  - *na-C-l-n-C-* stems: Av. *ci-na-h-l-ciš-* (< *ci-n-š-*) ‘\*assign’ (< *kaiš-l-ciš-*);
  - *nā/n-* stems (< *na-H-l-n-H-*): YAv. *zi-nā-l-zi-n-* ‘take away’, OP. *di-nā-l-* (< *ji-na-H-l-ji-n-H-*);

- *naulnu*-stems: Av. *s<sup>h</sup>ru-naolnu-* ‘hear’ (< *sṛ-na-u-lu-u-* [or *sru-nau-*] < *sru-*); Av. *kər<sup>h</sup>-naulnu-* ‘do, make’, OPers. *kunau-* (< *kṛ-nau-lnu-* < *kar-*).

#### 4.1.1.2 Thematic present stems

Thematic present stems include the following:

1. stems in *a-*:
  - root in zero grade: Av. *mər<sup>h</sup>za-* ‘wipe’, OPers. *ṃardā-* (or *mardā-*, MPers. *māl-*);
  - root in full grade: Av. *bara-* ‘carry’, *bauua-* ‘become’, OPers. *barā-*, *bava-*;
  - root in long grade: Av. *frāda-* ‘to further’;
2. stems in *ja* (see also section 4.1.1.4):
  - root in zero grade: Av. *miriia-*, OPers. *mṛiia-* ‘die’ (< *mṛ-ja-*);
  - root in full grade: Av. *spasiia-* ‘spy on’, OPers. *jadiya-* ‘ask for’;
3. stems in *aia* (see also section 4.1.1.5):
  - root in zero grade: Av. *saδ-aiia-* ‘appear’, OPers. *ṭad-aya-* (< *čnd-aya-* < (*s*)*čand-*);
  - root in full grade: Av. *daēs-aiia-* ‘show’, OPers. *ṭar-aya-* ‘cross (river)’;
4. stems in *-āja-* with root in zero grade: *gə<sup>h</sup>ruu-āiia-* ‘seize’, OPers. *garb-āya-* (cf. YAv. *gər<sup>h</sup>β-nā-*);
5. stems in *-sa-* (OInd. *-cha-*, IE. *-skē-l-sko-*)
  - root in zero grade: Av. *ja-sa-* ‘go’ (for *\*gasa-* < *gṃ-sa-* < *gam-*), *tər<sup>h</sup>-sa-* ‘to become afraid’; OPers. *ā-ya-sa-* ‘take’ (< *jam-*), *tar-sa-*;
  - roots in long *ā*: Av. *yā-sa-* ‘request’, OPers. *xšnā-sa-* ‘know’ (< *jnā-*, cf. Latin, Greek *gnō-sk-*);
6. stems with *n* infix: Av. *kər<sup>h</sup>-n-ta-* ‘cut’ (< *kart-*); YAv. *viṇda-* (< *vaid-*, athematic OAv. *vi-na-d-*);
7. reduplicated stems:
  - with ‘light’ reduplication: Av. *hi-šta-* ‘stand’, OPers. *(h)i-šta-* (< *Si-St-a-*, *stā-*); OAv. *ṃiia-* ‘implore’ (< *i-y-a-* < *yā-*);
  - with ‘heavy’ reduplication (intensive): Av. *ja-γna-* ‘smash to smithereens’ (< *gan-ljan-*);
8. desiderative stems in *-Sa-* with reduplication: OAv. *dī-dray-žā-* ‘to wish to hold firmly’ (< *drang-l-drng-*), OYAv. *diβžā-* ‘seek to deceive’ < *di-(d)b-ž<sup>h</sup>a-* < *di-db<sup>h</sup>-šā-* (< *d<sup>h</sup>ab<sup>h</sup>-*); YAv. *zi-xšnā-gha-* ‘wish to know’ (< *jnā-*); *mi-mar<sup>h</sup>x-ša-* ‘wish to destroy’ (< *mark-*).

#### 4.1.1.3 The future stem

A future stem is formed with *-Sja-* added to the root in the full grade. Old Avestan has only two forms: *vax-šiiā-* < *vak-* ‘speak’ and *sao-šiiā-nt-* < *sau-* ‘revitalise’. Young Avestan has a few, including: *sao-šiiā-* and the irregular *bū-šiiā-* < *bau-* ‘become’. There are no Old Persian forms attested.

#### 4.1.1.4 Passive stem

A passive stem is formed with the suffix *-iā-*, with the root in the zero or full grade: YAv. *kir-iia-* ‘be done, be made’, OPers. *kar-iya-* (<*kr̥iā-*), YAv. *ba'r-iia-* ‘be carried’ (<*bar-*). See also section 4.3.1.

On the 3rd sing. passive in *-i*, see section 4.3.2.

#### 4.1.1.5 Causative stem

A causative is formed with the suffix *-aiā-* to the root in the lengthened (or full) grade. It usually corresponds to a passive or intransitive present: *s<sup>h</sup>ru-nau-* ‘hear’ vs. *sru-iia-* ‘be heard’ vs. *srāuu-aiia-* ‘make heard’ > ‘recite, sing’; *su-iia-* ‘be revitalized’ vs. *sauu-aiia-* ‘revitalize’.

#### 4.1.1.6 Denominative stem

This group contains stems in *-iā-* and *-aiā-* and *-aniā-* (cf. Oettinger 1992): *bišaz-iia-* and *baēšaz-iia-* ‘to heal’ (<*bišaz-* ‘doctor’, *baēšaza-* ‘medicine’), Av. *ar<sup>h</sup>za-iia-* ‘to do battle (*ar<sup>h</sup>za*)’, *pər<sup>h</sup>s-aniia-* ‘to discuss’, OPers. *patiy-a vah-aya-* ‘to pray for help’ (cf. Av. *auuah-* ‘help’). See also Tucker 2004.

#### 4.1.2 Aorist stems

There are the following principal types of aorist stems:

- the root aorist: Av. *jam-lga-lgm-* ‘go, come’ (pres. *jasa-*), Av., OPers. *dā-l-d-* ‘give, place’ (pres. *da-dā-*);
- the thematic aorist: Av. *taš-a-* ‘fashion’ (pres. *tāš-*);
- the *s*-aorist: Av. *stā-h-* < *stā-* ‘stand, place’, *nai-š-* < *nai-lnī-* ‘lead’ (pres. *naiia-*), *varš-* < *var<sup>h</sup>z-* ‘produce’ (pres. *vər<sup>h</sup>ziia-*), OPers. *dar-š-* < *dar-* ‘to hold’ (pres. *dāraya-*);
- the reduplicated thematic aorist: Av. *va-oca-* < *ua-uc-a* < *vac-* ‘to speak’ (pres. *mrao-*);
- suppletive systems: Av. *va-oca-* (pres. *mrao-*); *dars-* ‘see’ (pres. *vaēna-*).

Some verbs have both root- and *s*-aorist forms, e.g. Av. *man-* ~ *māh-* ‘think’ (pres. *maniia-*).

#### 4.1.3 Perfect stems

The perfect stem is formed by reduplication, with the exception of *ād-lāδ-* (invariable) ‘say’ and *vaēd-lvaēδ-* (*vaēθ-*) ‘know’. The vowel of the reduplication syllable varies:

- *a*, *i*, or *u*, in harmony with the vowel of the root (velars are palatalized before *a* and *i*): *ca-kan-* ‘love’, *ci-kaēθ-* ‘\*point out’, *ru-raoδ-* ‘howl’, OPers. *ca-xr-*, weak stem of *ca-kār-* < *kar-* ‘do’;
- rarely *ā*: *dā-dar<sup>h</sup>s-* < *vaēn-l-dars-* ‘see’;
- roots in initial *ā-* have long *ā-*: *āp-* ‘reach’, *āṅh-* < *ah-* ‘be’ (<*a-ah-*);
- the root *ai-li-* has perf. stem *ū-ai-*: YAv. *ii-aē-* (*ī-aē-*) < *aē-* ‘go’.

#### 4.1.4 Suppletive stem systems

There are a few suppletive verb systems, e.g. Av. pres. *mrāu-*, aor., perf. *vac-* ‘speak’; pres. *vaēna-*, aor., perf. *dars-*, OPers. pres. *vaina-*, imper. *dī-* ‘see’.

#### 4.1.5 Periphrastic formations

On the use of past participle + ‘to be’ in YAv. and OPers., see section 6.4.2.2; on the pres. part. + modal forms of ‘to be’ see section 7.2.3.7ce.

### 4.2 Moods

The subjunctive and optative take special formants added to the stem (present, aorist, perfect), while the imperative is characterised by a special set of endings.

#### 4.2.1 The subjunctive

The subjunctive is formed from the present, aorist, or perfect stems by the formant *-a-*. This means that athematic verbs are thematised, while thematic verbs take the combined formant *-ā-*. The endings are primary or secondary. The primary 1s is *-ni* (vs. indicative *-mi*).

#### 4.2.2 The optative

The optative is formed from the present, aorist, or perfect stems by the ablauting formant *-jaH-/iH-* > *-jā-/ī-*. In thematic verbs, the thematic vowel combines with *-ī-* to yield the characteristic thematic optative formant *-ai-*.

In Old Persian and, sometimes, in Young Avestan, the optative can take the augment to produce the preterital optative: YAv. *a-uuaēn-ōiš* ‘(whenever) you saw’, *nišādāi-ōiš* ‘you would seat (me)’; OPers. *avājan-iyā* ‘he would kill’, *a-kunav-aya<sup>n</sup>tā* ‘they would do’ (see section 7.2.2.2).

### 4.3 Voice

There are two ‘voices’: active and middle. Verbs can have active and/or middle forms. Some verbs have only active forms, some only middle forms, and some both active and middle forms. Only in the third group can the middle forms have a special function, different from that of the active forms. Intransitive verbs typically have only active (e.g. YAv. *aēti* ‘he goes’) or only middle forms (YAv. *āste* ‘he sits’), while transitive verbs can take both active and middle forms. If they do, then most often the distinction between the two forms is active vs. passive (see further section 7.3.2).

#### 4.3.1 The passive in *-ja-*

More commonly, the passive (‘it is done, he is killed’) is expressed by the special present stem in *-ja-* (YAv. *-iia-*, OPers. *-iya-*). In Avestan, this form normally takes the middle endings; in Young Avestan, active endings are also well attested (in Old Persian 3rd person *-tiy* and *-taiy* are indistinguishable <*-t-i-y*>).



4.3.2 The 3rd singular passive in -i

A special Indo-Iranian 3s passive form was made from the aorist stem with the ending -i (OAv. -ī, YAv. -i): OAv. *srāuu-ī* ‘has become renowned’. In Young Avestan, this rare form was made from the present stem (*ja'n-i* ‘was smashed’, *ər'nāuu-i* ‘was sent on its way’) and from the perfect stem (*ā'δ-i* ‘is/was said’).

4.4 Person marking (endings)

The endings are of the Indo-Iranian (and late Indo-European) type, those of the present and aorist indicative differing from those of the perfect indicative, and with distinct sets of ‘primary’ in the pres. and perf. ind. and ‘secondary’ endings elsewhere. The subjunctive takes endings from either set. See Tables 3.4.1-4.

In the 1s, Avestan still has the pres. ind. act. primary ending OAv. -ā, YAv. -a, beside the more common -āmi; the subj. has -ā and -āni.

The 1st person endings of the dual and plural are parallel: act. primary -yahi, -mahi, secondary -ya, -ma; middle secondary -yadi, -madi, YAv. -ma 'δel-ma'de.

On the 3s pass, ending -i, see above.

TABLE 3.4.1: VERBAL ENDINGS 1. PRESENT INDICATIVE; PRESENT AND AORIST INJUNCTIVE AND IMPERATIVE

	Present indicative		Present/aorist injunctive		Present/aorist imperative	
	Athematic	Thematic	Athematic	Thematic	Athematic	Thematic
<b>Active</b>						
1s	-mi	-ā, -ā-mi	-am	-a-m		
2s	-Si	-a-hi	-S	-a-h	-di	-a
3s	-ti	-a-ti	-t	-a-t	-tu	-a-tu
1p	-mahi	-ā-mahi	-ma	-ā-ma		
2p	-θa	-a-θa	-ta	-a-ta	-ta	-a-ta
3p	-anti, -ati	-a-nti	-an	-a-n	-a-ntu	-a-ntu
			aor. -an, -at			
1d	-yahi		-ya	-āya		
3d	-tah	-a-tah	-tam	-ā-tam		
<b>Middle</b>						
1s	-ai	-ai	-i	-ai		
2s	-Sai	-a-hai	-Sa	-a-ha	-Sya	-a-hya
3s	-tai, -ai	-a-tai	-ta	-a-ta	aor. -ām	-a-tām
			aor. -ātam			
1p	-madai	-ā-madai	-madi			
2p	-dyai	-a-dyai		-a-dyam	-dyam	-a-dyam
3p	-ntai, -atai	-a-ntai	-ata	-a-nta	pres. -rām	-a-ntām
	-rai-, -ārai					
1d			-yadi			
3d	-aitai, -aiθai	-aitai, -aiθai		-aitam		

TABLE 3.4.2: VERBAL ENDINGS 2. PERFECT, PLUPERFECT

	Perfect		Pluperfect
	Active	Middle	
Sing.			
1	-a	-ai	
2	-θa		
3	-a	-ai	-a-t
Plur.			
1	-ma		
3	-r		-rš
Dual			
3	-ātr	-ātai	

TABLE 3.4.3: VERBAL ENDINGS 3. SUBJUNCTIVE AND OPTATIVE

	Subjunctive		Optative	
	Athematic	Thematic	Athematic	Thematic
Active				
1s	-ā	-ā, -ā-ni	-jā-m	
2s	-a-h, -a-hi	-ā-h, -ā-hi	-jā-h	-ai-š
3s	-a-t, -a-ti	-ā-t, -ā-ti	-jā-t, -ī-t	-ai-t
1p	-ā-ma	-ā-ma	-jā-ma, -ī-ma	-ai-ma
2p	-a-θa, -a-ta	-ā-θa, -ā-ta	-dyai	
3p	-a-n, -a-nti	-ā-n, -ā-nti	-jā-n	
			-jā-r, -jā-rš	-aj-an
3d			-ī-tam	
Middle				
1s	-āi, -ānai	-āi, -ā-nai	-(ī)j-a	-aj-a
2s	-a-hai	-ā-hai	-ī-ša	-ai-ša
3s	-a-tai	-ā-tai	-ī-ta	-ai-ta
1p	-ā-madai	-ā-madai		-ai-madai
2p				-ai-dyām
3p	-a-ntai	-ā-ntai		-aj-anta

TABLE 3.4.4: 'TO BE'

	Pres.	Inj.-Ipf.	Subj.	Opt.	Imp.
1s	ah-mi		ah-ā	h-jā-m	
2s	ah-i		ah-a-h	h-jā-h	z-di
3s	as-ti	ās	ah-a-t(i)	h-jā-t	as-tu
3d	s-tah				
1p	mahi		ah-ā-ma	h-jā-ma	
2p	s-ta			h-jā-ta	
3p	h-anti	āh-an	ah-an	h-jā-r	h-antu
1d		ah-ya(?)			
2d	s-tah				

In the athematic 3rd person pres. and aor. mid., a few forms lack the *t* in the sing. and have forms with *r* in the plur.: OAv. pres. ind. sing. *is-ē* ‘desires’, aor. imper. sing. *d-qm*, *uc-qm* ‘let it be given, spoken’, pres. imper. plur. *jān²-rqm* ‘let them be smashed!’, *xrūn²-rqm* ‘let them be bled!’, YAv. pres. ind. 3rd sing. and plur. *mruī-e* ‘is said’ (< *mruy-jē*), *mruu-ā’re* ‘they are said’ (< *mrao-lmru-*); *niγn-e*, *niγn-ā’re* ‘is/are smashed down (upon)’ (< *jan-lγn-*, see Hintze 2005); *āgh-ā’re* ‘they sit’ (but 3s *āste* < *āh-*), *sōi-re/saē-re* ‘they lie’ (but 3s *saē-te*).

#### 4.5 Preverbs

Common preverbs include *us-* ‘up, out’ – *ni-* ‘down’; *fra-* ‘forward, forth’ – *apa-* ‘away, off’; *ati-* ‘up to’ – *niš-* ‘out, away, separate, beyond’; *ham-* ‘together’ – *ui-* ‘out of, apart’. In addition, a subset of adpositions also has a preverbal function (see section 3.5). For examples see sections 5.1.2–3.

#### 4.6 Nominal forms of the verb

##### 4.6.1 Participles

Active and middle participles are derived from the present, aorist, perfect, and future stems of the verb (see sections 4.6.1–3). The ‘past participle’ with the suffix *-ta-* is derived from the root, usually in the zero grade (see section 4.6.1.4), and the verbal adjectives expressing necessity from the root, usually in the full grade, with various suffixes (see section 4.6.2).

##### 4.6.1.1 Present, future and aorist active participles

The active participles of the pres., fut., and aor. stems take the formant *-nt-*:

- thematic verbs with fixed stems in *-ant-*: pres. OAv. fem. *maēk-a’nt-ī-* ‘sparkling’; YAv. them. *bar-ənt-* ‘carrying’, *bū-šii-ant-* ‘who will be’; future: OAv. *sao-šii-ant-* ‘he who will revitalize’, fem. *bū-šii-e’nt-ī-*; – aor.: OAv. *han-ant-* ‘gaining’;
- athematic forms with strong stems in *-ant-* and weak stems in *-at-*: pres. OAv. *h-ənt-* ‘being’, fem. OAv. *šii-e’t-ī-* ‘inhabiting’; YAv. *h-a’tī-* ‘being’; – aor. YAv. *°buu-ant-* ‘becoming’; – acrostatic present stems with fixed weak stems: OAv. *stauu-at-* ‘praising’.

##### 4.6.1.2 Perfect active participles

The perf. part. act. is made with the formant *-yah-l-uš-*: OAv. *vīd-uuah-lvīd-uš-* ‘knowing’, YAv. *vīd-uuah-lvīd-uš-* ‘knowing’ (see section 2.3.2.2b) *ja-γm-uš-* ‘having gone/come’ (< *gam-*). Note the conditioned changes (Skjærvø 1997a): *vaox-’ah-* ~ *vaokuš-* ‘having spoken’ (< *ya-uk-yah-* < *vak-*), *vauuan-uuah-* ~ *vaomuš-* ‘having won’ (< *van-*), *yōiθ-βah-* ~ *yaētūš-* ‘having taken up one’s position’ (< *yat-*), *tarš-uuah-* ‘having fashioned’ (< *ta-tš-yah-* < *taš-*).

Two types of adjectives resemble the perfect participle and have similar functions, with *-u-* and *-uan-*: OAv. *vīd-u-* ‘knowing one’, *vā-un-u-* ‘winner’, YAv. *za-z-u-* ‘winner’; OAv. *ci-ciθ-βan-* ‘who understands’, YAv. *yōiθ-βan-* ‘standing ready’.

## 4.6.1.3 Middle participles

The middle participles of thematic verbs end in Av. *-əmna-* (*aiia*-stems: *-aiiamna-*), OPers. *-amna-*, those of athematic verbs, including the perfect, regularly end in Av. *-āna-*.

4.6.1.4 Past participles in *-ta-*

The past participle (Eng. ‘gone, killed’) has the ending *-ta-* with the root in the zero grade if possible and with the regular sound changes: *śuta-* ‘set in motion’ (< *śau-*); *ux-ta-* ‘spoken’ (< *vak-*), *bas-ta-* ‘bound’ (< *band-*); full grade: *dā-ta-* ‘given, placed’ (< *dā-*); *aox-ta-* ‘spoken’ (< *aog-*; in *aoxtō.nāman* ‘whose name is spoken’).

On the ‘periphrastic’ perfect, see sections 7.4.2.2 and 7.4.3.

4.6.2 Verbal adjectives in *-θa-*, *-θβa-*, *-iia-*

The ‘participles of necessity’, expressing ‘that which ought to or can be done’, are formed with the suffixes *-θa-* (*-δa-* by internal sandhi): *ux-δa-* ‘that ought to be spoken’; *-θβa-* (*-tuua-* by internal sandhi): *vax<sup>3</sup>-δβa-* ‘that ought to be spoken; or *-iia-*: *karš-iia-* ‘that ought to be ploughed’. The suffix *-iia-* could also be attached to nouns: *yesn-iia-* ‘deserving of sacrifices’ < *yasna-*.

## 4.6.3 Infinitives

There are two sets of infinitives, which may be formed from the root or the present stem (see also Kellens 1994): those ending in *-dīāi* have medial function (cf. Lühr 1994), the others are neutral with respect to voice.

The infinitives in *-dīāi* can be made either from the pres. stem: athem. (root in zero grade) OAv. *ja<sup>1</sup>-dīāi* ‘to strike’ (< *jan-*), YAv. *da-z-dīāi* (< *da-d<sup>2</sup>-dīāi*) ‘give, establish’, them. YAv. *vaza<sup>1</sup>-dīāi* ‘drive’; or from the aorist stem: aor. stem. athem. OAv. *dər<sup>3</sup>-dīāi* ‘hold (up)’.

The neutral (active/middle) infinitives are the following:

- exclusively OAv.: *-ai*: *p-ōi* ‘protect’ (< *pā-*); *-uāi*: *vīd-uīē* ‘know’ (< *uīd-uāi*); *-uuanai*, *-manai*: *vīd-uuanōi* ‘know’; *-Sai*: athem. *nāšē* ‘to obtain’ (< *nās-šai*); them. *srāuuaiie-ghē* ‘recite’;
- both OAv. and YAv. (rare) are infinitives in *-tai*: OAv. *gaṭ.tōi* ‘go’ (for *ga-tōi* < *gam-*), *i-tē* ‘go’, OYAv. *mrū<sup>1</sup>-tē* ‘speak’, *s-tōi* ‘be’ (< *ah-*);
- only YAv., the infinitive in *-taiāi* (identical with the dative of an action noun in *-ti*): *ux-tēe* ‘to speak’;
- only OPers., the infinitive in *-tanaiy*, made from the root in the full grade: *bar-tanaiy* ‘to carry’, *car-tanaiy* ‘to do’ (< *kar-*).

## 5 SYNTAX I: WORD ORDER AND CLAUSE STRUCTURE

## 5.1 Word order

The basic word order is verb-final: SOV. Preverbs in tmesis are always, adverbs often, clause-initial; the indirect object usually follows the direct object. The second position in the clause is reserved for enclitics (see section 6.5.1.3).

### 5.1.1 Adpositions

Adpositions can precede or follow their government. The position is freer in Old Avestan than in Young Avestan and Old Persian.

Adpositions follow enclitic pronouns they govern:

YAv. *kaḍa [nō auui] ājasāṭ nmānō.pa'tiš*  
 'when will our home-lord come [to us]?' (Yt. 17.10).

Enclitic postpositions will seek the second place in the clause:

*[asmanəm auui] frašusāni*  
 'shall I go forth [to heaven]?' (Yt. 17.57),

vs.

*mā [auui asmanəm] frašusa*  
 'do not go forth [to heaven]!' (Yt. 17.60).

Adpositions (and preverbs) are frequently placed between a noun and its modifier:

YAv. *[aēuuqm] vā [auui xšapanəm]*  
 'or [for one night]' (Yt. 8.11).

### 5.1.2 Preverbs

In Avestan, but not in Old Persian, the preverbs may be detached from the main verb, usually preceding it, sometimes fronted to the beginning of the clause, sometimes separated by one word only (frequently the conjunction *-ca*; Hale 1993). Coordination of separated preverbs with (*-ca . . .*) *-ca* is frequent.

In Old Avestan, they are then often repeated directly before the verb, see section 5.1.3.

They may also be lowered to the end of the clause (or metrical half-line). When a verb with preverb is repeated, only the preverb may be repeated.

In Young Avestan, a verb can, apparently, have two preverbs, e.g. *paiti auua.jasa-* 'to come down \*in return'.

Examples:

- joined to the verb in main and subordinate clauses:

OAv. *aiiā nōiṭ ərʷš [vī-šiiātā] . . .*  
*hiiaṭ iš dʷbaomā . . . [upā.jasaṭ]*  
 'they did not [discriminate] correctly between these two,  
 because deception [came over] them' (Y. 30.6);

- separated and fronted:

YAv. *[pa'ti] maqm ərʷzuuō [pərʷsaj'ha]*  
*yezi maqm [pa'ti.pərʷsaj'he]*  
 '[consult] me [in turn], O upright (Zarathustra)! . . .  
 if you [consult] me [in turn]' (V. 18.7);

OAv. *[ā]-zī dʷmānəm . . . [°dāṭ] | dušitā-cā*  
 'for he [has placed] the home [in] . . . and difficulty' (Y. 31.18);

YAv. *yezī-ca hē [hqm] tafnō [jasā]*  
 ‘and if fever [comes (and joins) with] her’ (V. 7.70);

- post-verbal:

OAv. *xraosəntqm upā*  
 ‘let them be howled upon!’ (Y. 53.8);

- one preverb for two forms of the same verb:

OAv. *yā zī [āitī jəṅghati]-cā*  
 ‘namely, (those things) that [are (now) coming] (*āiti* < *ā aēti*)  
 and (those) that [shall come] (*ā . . . jəṅgha’ti*)’ (Y. 31.14);

- two preverbs for one verb:

YAv. *ā tē aṅhe fra-ca stuiie*-pres. ind.  
 ‘for this I am assigning myself by my praise (*ā-stuiie?*) to you and utter your praise  
 (*fra-stuiie*)’ (Y. 1.21);

- preverb minus verb:

OAv. [*apānō*] *darəgō.jiūā’tīm*  
 [*ā*] *xšaθrəm vaṅhəuš manaṅhō*  
 ‘[having obtained] (*ā-apānō*) long life,  
 having (obtained) (*ā*) the command of good thought’ (Y. 33.5);

- with change of preverb (and verb?):

*kaθā drujəm [nīš] ahmaṭ ā [°nāšāmā] /*  
*təṅg ā [auuā] yōi asruštōiš pər<sup>3</sup> nāṅhō*  
 ‘how we shall [take away] here from us the Lie,  
 (and) [(bring it) down] upon those who (are) full of refusal to listen’ (Y. 44.13).

### 5.1.3 Repetition of preverb in tmesis

In Old Avestan (exceptionally in YAv.), preverbs separated from the verb are often repeated directly before the verb (observing sandhi rules). This phenomenon was early on recognized as ancient interference with the text, as the repeated preverbs obey sandhi rules, but are shown by the meter to be additions to the text:

OAv. [*frō*] *spəntā ārma’tē / ašā daēnā [fra-daxšaiiā]*  
 ‘[launch forth], O Humility, (our) vision-souls through life-giving Order!’ (Y. 33.13);

YAv. [*auua*] *mē āziš . . . aṅhuuqm [auua-dər<sup>3</sup>nq] sadaiiēti*  
 ‘that *āzi* (= ?) appears (to be) [ripping off] my life thread’ (V. 18.19).

## 5.2 Topicalisation: ‘raising’ and ‘lowering’

Departures from the basic word order are frequent, most often for metrical reasons, but also for emphasis of various kinds (see also section 10 Stylistic features).

‘Raising/fronting’ and ‘lowering/backing’ of the main constituents are quite common.

In addition, in the Old Avestan and Young Avestan metrical texts, word order to a large extent depends on the exigencies of the metrical units, although similar tendencies in Old Persian show that it is also a feature of elevated style (cf. Hale 1988).

In general, verbs tend to be raised to initial position, and other parts of the sentence tend to be lowered. In Old Avestan, this often happens when the sentence goes over more than one ‘half-line’. In Young Avestan and Old Persian, it frequently happens with complex direct objects. Raising is often combined with other effects, such as parallelism and chiasmus.

### 5.2.1 Raising of verb

OAv. [ahmī] mazdā anaēšō . . . kamnānā ahmī  
 ‘[I am], O Mazda, weak . . . of few men I am’ (Y. 46.2) [chiasmus];

YAv. [jamiūā] vō vaŋhaoŋ vaŋhō  
 ‘[may there come] to you (what is) better than good! (Y. 59.31);

OPers. [ōātiy] dārayavauš xšāyaθiya  
 ‘King Darius [announces]’.

### 5.2.2 Raising of direct object

OAv. yaθā [ratūm] ahurō vaēdā  
 ‘how the Lord knows [the model] (to be)’ (Y. 31.2);

YAv. mā yauue [imaŋ nmānəm] x<sup>v</sup>āθrauuat x<sup>v</sup>ar<sup>nō</sup> frazahūt  
 ‘may not ever Fortune providing comfort leave [this house]!’ (Y. 60.7);

OPers. [xšaçam] hauv agarbāyatā  
 ‘[the royal command] he took for himself’ (DB 1.41–42).

### 5.2.3 Lowering of subject

OAv. āuuš . . . hēntū . . . [rātaiō]  
 ‘let there appear . . . [gifts]!’ (Y. 33.7);

YAv. ā dim pər<sup>sa</sup>ŋ [zaraθuštrō] ‘Zarathustra asked him’ (Y. 9.1).

### 5.2.4 Lowering of direct/indirect object

Lowering, often for metrical reasons, is frequently found with phrases (dir. obj., double dir. objs., indir. obj.) consisting of noun + determinative or sequences of nouns:

OAv. iθā āŋ yazama’dē [ahurəm mazdām]  
 ‘thus, in this manner we are sacrificing [to Ahura Mazda]’ (Y. 37.1);

YAv. yaŋ kər<sup>nao</sup>ŋ aŋhe xšāθrāda / a-maršanta [pasu vira] [8 + 8 syllables]  
 ‘. . . that he (= Yima) made during his reign / imperishable [cattle and men]’ (Y. 9.4);

OPers. yadiy imam dipim vaināhay [imai]-vā [patikarā]  
 ‘if you see this inscription or [these pictures] . . .’ (DB 4.72–73).

### 5.2.5 Lowering of adverbial complements

YAv. *mā zaṃ vaēnōiṭ [ašibiia]*  
 ‘may he not see the earth [with (his evil) eyes]!’ (Y. 9.29);

OPers. *avam kāram . . . adam a-janam [vasiy]*  
 ‘I smashed that army [greatly]’ (DB 1.88–89).

## 5.3 Special types of clauses

Regular positive statements are of the common Indo-Iranian type. Following are remarks on special clauses.

### 5.3.1 Questions

Explicit questions are introduced by interrogative pronouns or particles. When they are not, they are, obviously, sometimes difficult to identify. The mood in questions is often the deliberative subjunctive (see section 7.2.1.1):

- without interrogative particle:

OAv. *vīdušē zī nā mruiiāṭ*  
 ‘for may a man tell the knowing one?’ (Y. 51.8);

- with interrogative pronouns:

OAv. *[kō] vā ašā āfraštā [kā] spəntā ārma’tiš*  
 ‘[who] has either consulted with Order, (and) [with whom] (has) life-giving Humility (consulted)?’ (Y. 51.11);

YAv. *[kuua] hē aošō viṇdāma*  
 ‘[where] shall we find death for him?’ (V. 19.46);

- with interrogative particle, including *kaṭ* and *-nā*, approximately ‘I wonder’:

OAv. *[kaṭ] mōi uruuā isē cahiiā auuaṇhō*  
 ‘does my soul, I wonder, control anybody’s help (at all)?’ (Y. 50.1);

*kōm[-nā] mazdā mauua’tē pāiiūm dadā*  
 ‘whom, [I wonder], do you, O Mazdā, give as protector to one like me?’ (Y. 46.7);

- disjunctive questions:

OAv. *[katārəm] ašauuā [vā] drəguuā [vā]*  
*vərauuuā’tē maziio /*  
*vīduuā vīdušē mraotū*  
 ‘[whether] the sustainer of Order [or] the one possessed by the Lie will \*retain for himself the greater (reward), let him who knows say to the one who knows!’ (Y. 31.17);

YAv. *[katārəm] ā0rauuu a0aʳrunəm [vā] paraiiāṭ*  
*gaē0anəm [vā] aspəʳʳnō auuōiṭ*  
 ‘should the priest go away to (do) priestly studies, [or] should he help as \*overseer of the livestock?’ (Her. 3).



### 5.3.2 Exhortations and commands

Exhortations (commands, suggestions, wishes) to 1st, 2nd, and 3rd person are expressed in various ways. Simple commands are expressed by the imperative. Negated commands or exhortations (also to 1st pers.) are expressed by *mā* + inj. (pres. or aor.) or *mā* + opt. (YAv., OPers.).

Wishes are expressed by the optative, negated by OAv. *nōit*, YAv., OPers. *mā*. The difference between negated commands and negated wishes is sometimes minimal.

### 5.3.3 Parenthetical clauses in the nominative

Parenthetical clauses in the nominative are found in Avestan:

OAv. *nū im vīspā [ciθrē zī] mazdāyḥō.dūm*  
 ‘now, (you) all, – [for it (is) brilliant!] – pay attention to it (the announcement?) . . .’  
 (Y. 45.1).

In Young Avestan, we occasionally find descriptive parenthetical phrases in the nominative such as the following:

*upa.tacaṭ ar<sup>3</sup>duuī sūra anāhita ka'nīnō kəhr pa srīraiīā . . .*  
*[raēuuat ciθrəm] āzātaiīā*  
 ‘Arəduuī Sūrā Anāhitā came running in the body of a beautiful young woman  
 – [(her) seed (being) wealthy (= of wealthy seed)] – high-born’ (Yt.5.64).

On the Old Persian ‘naming phrase’, see section 6.4.1.1.

### 5.3.4 Reported speech

Reported speech is identical with direct speech and may be recognizable by context only: in Avestan as the object of verbs of speaking, thinking, etc., or accompanied by the particle *u'tī*; in Old Persian introduced by the conjunction *taya* (cf. Schmitt 1995). It is found in the following cases:

object of verbs of speaking, thinking, etc.:  
 OAv. *ōiiā cistī [huuō ptā ašahiīā mazdā]*  
 ‘by this insight: [He is the father of Order, the all-knowing one]’ (Y. 47.2);

YAv. *yaṭ \*aēšō yō apər<sup>3</sup>nāiiukō . . .*  
*aoxtō vā hē aoxtē [\*0βaṭ pairi \*aṭha]*  
 ‘when this child . . .  
 or having been spoken to says to him: [I shall stay with you]!’ (Her. 7);

OPers. *yadi-maniyā<sup>h</sup>i y [šiyāta ahaniy jīva utā marta artāvā ahaniy]*  
 ‘If you shall think: [Let me be happy both (while) alive, and (after I am) dead let me be blessed!] . . .’ (XPh 46–50).

In Old Persian the verb of speaking, thinking, etc., can be embedded in the reported speech:

*[taya] amaniyaiy [kunavāniy] ava-maiy visam ucāram āha*  
 ‘[whatever] I thought [I shall do] that all was easy for me’ (DSI).

The Avestan particle *u'ti* precedes or follows reported speech:

OAv. *yaiiā spaniiā u'ti mrauuai yēm aṅgrəm /*  
*[nōi nā manā . . . nōi daēnā noiṭ uruuqñō hacīntē]*  
 'of which two the life-giving one **thus** shall say (to him) whom (you know to be) the  
 Evil one:  
 [Neither our thoughts . . . nor vision-souls, nor souls go together]' (Y. 45.2);

YAv. *[ā'ṭ vō kas-ci mašiiānəm]*  
*u'ti mraoṭ ahurō mazdā*  
*[āi ašāum zaraθuštra x'ar'nō ax'ar'təm isaēta]*  
 '[therefore may each of you men]  
 – **thus** said Ahura Mazda –  
 [O Orderly Zarathustra, seek the unseizable Fortune!]' (Yt. 19.53).

In Young Avestan, *u'ti* is often found with *aojana-*: *u'ti aojana-*, *u'tiaojana-* 'thus saying':

*yō aoxta ahurāi mazdāi u'tiaojanō*  
*[ahura mazda mainiō spēništa . . .]*  
 'who said to Ahura Mazda thus saying:  
 [O Ahura Mazda, most Life-giving Spirit . . .]' (Yt. 8.10).

The OAv. particle *uiti*, apparently, also serves to abbreviate statements:

*yōi vaṅhēuš ā manahō šiiēnti*  
*yās-cā [u'ti]*  
 'the male (deities) who dwell with good thought,  
 as well as the female ones who ["dwell with good thought"]' (Y. 39.3).

## 6 SYNTAX II: NOMINALS

### 6.1 Specificity and reference

There are no articles, but relative clauses and, especially, constructions with relative particles are used to express specificity, and demonstrative pronouns are used for reference to elements of the discourse (the former/latter, the aforementioned/following).

#### 6.1.1 *The Young Avestan and Old Persian connecting relative and the relative particle*

In Young Avestan and Old Persian, the relative pronoun is frequently used to connect a noun with a nominal (adjective, genitive, etc.). Its function must originally have been 'specifying' or 'delimiting', cf. OPers. *hayā manā taumā* vs. *manā taumā* = 'my family' vs. 'my family'.

In these constructions, when the antecedent is in the nominative or accusative, the relative pronoun is usually in the same case.

In Young Avestan, the relative pronoun takes the invariable from nom.-acc. sing. neut. *yai* when the antecedent is in a case other than the nominative or accusative, occasionally also when it is in the nominative or accusative. In such clauses, the case of the relative pronoun and the predicate noun or adjective is the same as that of the antecedent.

6.1.1.1 Antecedent outside the relative phrase

Nominative-accusative:

YAv. [*vīspəm imaṭ yaṭ juiiō aṅhuš*]-**nom**.  
 ‘[all this, the living existence]’ = ‘this entire living existence’ (H. 2.2);

[*0βqm*] *raṭūm āiiese yešti [yim zaraθuštrəm]*-**acc**.  
 ‘[you, Zarathustra], I harness by my sacrificing as model’ (Vr. 2.4);

*yō paō’riiō [gāθā] frasrāuuaiiaṭ*  
*[yā pañca]*-**acc**. *spitāmahe . . . zaraθuštrahe*  
 ‘(Sraoša) who (as) the first made heard [the *Gāθās*],  
 [the five] of Spitāma Zarathustra’ (Y. 57.8);

*haomō [təm-ciṭ yim kərəsānīm]*-**acc**. *apa.xšaθrəm nišādaiiaṭ*  
 ‘the haoma set [that Kərəsāni, too], down away from his command’ (Y. 9.24);

OPers. [*kāra haya manā*]-**nom**. *avam [kāram tayam hamīçiyam]*-**acc**. *ajd’ vasiy*  
 ‘[my army] crushed that [conspiratorial army]’ (DB 2.25–26).

6.1.1.1a With invariable *yaṭ*

YAv.

[*puθrəm yaṭ pourušaspahe*]-**acc**.  
 ‘[the son of Pourušaspa]’ (Yt. 5.18);

*cuuaṭ [aētaiḡhā apō yaṭ armaēštaiiā]*-**gen**.  
 ‘how much [of this standing water]?’ (V. 6.30).

6.1.1.2 Antecedent inside the relative phrase

YAv. *yaṭ upaṅhacaṭ [yim yiməm xšaētəm huuaq0βəm]*-**acc**.  
 ‘that he followed [splendid Yima of good herds]’ (Yt. 19.31);

OPers. *imā dahayāva [tayanā manā dātā]*-**abl-inst**. *apariyāya*  
 ‘these lands behaved [according to my law]’ (DB 1.20)

6.2 Number

Singular, plural, and dual are used in the usual ways, with a few noteworthy special features.

6.2.1 Neuter plural

The neuter plural of adjectives and pronouns is commonly used in the sense of ‘things’:

OAv. [*yā*] . . . [*acištā*]-**p/nt**. *danṭō / vaxšəntē*  
 ‘giving [(those) which] (are) [the worst (things)] / to the blazing (fire)’ (Y. 32.4);

YAv. [*vaṅhu*]-**p/nt-ca** [*vaḡhās*]-**p/nt-ca** *āfrīnāmi*  
 ‘I invite as (guest-)friends [good] and [better (things)]’ (Y.52.1).

### 6.2.2 Dual

The dual is used with the numeral *dya-* ‘two’ and the pronoun *uba-* ‘both’ or alone to indicate a pair of equal items (natural pairs or arbitrary items). Some words have only dual forms (OPers. *ušt* ‘hearing, consciousness’). See also section 6.3.2.

Two singular items:

OAv. *aṭ . . . [ahuuā . . . fr̥nəmnā] . . .*  
*mē uruuā gəuš-cā aziīā*  
 ‘thus, [we two were there presenting ourselves as guest friends]:  
 my soul and that of the fertile cow’ (Y. 29.5).

A special form of the dual is the ‘elliptical dual’:

YAv. [*hāuuānāiās*]-**du/gen.-ca** *ašāiia [frašūtāiīā]*  
 ‘and [of the mortar (and pestle) moved forth] in Orderly fashion’ (Y. 27.7);

[*duuāēbiia haca nər’biia duua nara*] *us.zaiie’nte* [plur. for dual] . . .  
*stri-ca na’riias-ca*  
 ‘[from two men (= a man and woman) two men] are born:  
 female and male’ (V. 2.41).

## 6.3 Grammatical concord

Grammatical concord is of the usual Indo-European/Indo-Iranian type: between nouns and adjectives, pronouns, and numerals; between nouns and appositions and in comparisons introduced by *yaθa* ‘like, than’; and between subject and verb. There are some archaic and novel features:

### 6.3.1 Gender

Adjectives (including participles), pronouns, and verbs modifying several nouns tend to agree with the nearest one:

OAv. *vī.nənāsā [yā-s/f. kar’pō.tās-cā-s/f. kəuuītās-cā]*  
 ‘ruined are [what (are) the words *karapan* and *kauuī*]’ (Y. 32.15);

[*yqm*] *dā . . . [xšnūtəm hiiaṭ ’ruuatəm . . .] taṭ nē vaocā*  
 ‘[the \*favour-s/f. **which** you (first) established . . . the deal-nt. **which** (you have)] . . .  
 speak **that-nt.** to us’ (Y. 31.3).

### 6.3.2 Dual determinants

Dual forms of determinants and verbs may agree with two singular nouns forming a pair:

YAv. *staomi [maēγəm]-s/m.-ca [vārəm]-s/m.-ca*  
*[yā]-du/m. tē kəhrpəm [vaxšāiīatō]-3du*  
 ‘I praise [the fog and the rain,  
 which make] your body [grow]’ (Y. 10.3).

To express ‘both X and Y’, Avestan uses the construction ‘both: (namely) X and Y’, where ‘both’ is OAv., OPers. *ubā*, YAv. *uua* or the invariable pronoun *uuaēm* (<*ub<sup>h</sup>aiam*):

OAv. *ubē-du/f. ha<sup>h</sup>ruuās-s/f.-cā . . . amər<sup>h</sup>tatās-s/f.-cā*  
 ‘both wholeness and immortality’ (Y. 34.11);

YAv. *uuaēm x<sup>h</sup>ar<sup>h</sup>θəm-s/nt.-ca vastrəm -s/nt.-ca*  
 ‘both food and clothing’ (Y. 55.2);

OPers. *utā vištāspa-s/m. utā aršāma-s/m. ubā ajīvatam-3du*  
 ‘Hystaspes and Arsames were both alive’ (XPf 19–21).

### 6.3.3 Plural subject and singular verb

A neuter plural subject takes a singular verb both in Old and Young Avestan (where we also find plural agreement):

OAv. [*sax<sup>h</sup>ār<sup>h</sup>]*-p/nt. . . . [*yā*]-p/nt. *zī [vā-uuər<sup>h</sup>zōi]-3s . . . [yā]-p/nt.-cā [var<sup>h</sup>šatē]-3s*  
 ‘[the \*verses], namely (those) [which have been produced] and (those) [which will be produced]’ (Y. 29.4);

YAv. [*vər<sup>h</sup>ziiatəm*]-3s-ca *iḍa [vohu vāstriia]-p/nt.*  
 ‘and [let good pastures be produced] here!’ (Vr. 15.1),  
 but  
*kuua [tā dāθra]-p pa<sup>h</sup>ti [haṅjasəṅte]-3p*  
 ‘where [a<sup>h</sup>re those gifts \*totalled] in turn?’ (V. 19.27).

## 6.4 Uses of the cases

Cases fall into the generic, but not always clearcut, categories of ‘grammatical’ and ‘other’ cases. The former, nominative, accusative (DO), genitive, dative, are those required by the syntactical structure of the noun phrase and sentence, while the latter include the vocative (address, invocation) and the ‘local’ cases: (local) accusative, ablative, instrumental, locative, which are ‘free/independent’ verb- or sentence-modifying cases and are often accompanied by adpositions.

### 6.4.1 Nominative

The nominative is used for the subject of any verb and the predicate of ‘to be, become’ and verbs such as ‘to seem; be called, declare (oneself as); be announced, renowned, made/established (as)’, as well as appositions to such nominatives:

with copula:  
 OAv. *yūžēm zəuuištiiāṅhō išō*  
 ‘you (all are) the fastest invigorants’ (Y. 28.9);

YAv. *hapta həṅti . . . ratauuō*  
 ‘seven are the models’ (N. 84);

OPers. *hamaranakara a<sup>h</sup>miy<sup>h</sup>ušhamaranakara*  
 ‘(as) a fighter, I am a good fighter’ (DNb 34);

with verbs of thinking, declaration, etc.:

OAv. *aṭ hōi* [*aojī zaraθuštrō*]  
‘thus, [I declare myself to him (as) Zarathustra]’ (Y. 43.8);

YAv. *nmānəm hō* [*manīaēta para.daθō*]  
‘[he may think] (of himself as) [giving] a house’ (V. 18.28);

OPers. [*fratara maniyaiy*] *afuvāyā*  
‘[I consider myself superior] to fear’ (DNb 38).

#### 6.4.1.1 The Old Persian nominative naming phrase

In Old Persian, the names of persons and places in narrative passages may be introduced by a name in the nominative + *nāmā* ‘by name’, which agrees in gender with the following noun: name-**nom.** + *nāma* + masc., neut./*nāmā* + fem. and may be regarded as an adjectival compound. The entire phrase may have any syntactic function and even be governed by a preposition; its function may then be made explicit by an anaphoric pronoun or adverb:

*I martiya-s/m.* [*martiya nāma*]-**s/m.** *ci'caxraiš puça-s/m.*  
*[kuganakā nāma]-s/nt.* *vardanam-s/nt.* *pārsaiy avadā adāraya*  
*hauv udapataṭā ūvjaiy*  
‘one man [Martiya by name] son of Cincaxri,  
[Kuganakā by name] a town in Persia, **there** he was staying,  
**he** rose up in Elam’

= ‘one man called Martiya, son of Cincaxri, who was staying in the town of Kuganakā in Persia, rose up in Elam’ (DB 2.8–9);

*[kāpišakāniš nāmā]-s/f* *didā-s/f* *avadā hamaranam akunava*  
‘Kāpišakāni by name, a fortress, **there** they fought the battle’  
= ‘they fought the battle at a fortress called Kāpišakāni’ (DB 3.60–61);

*hacā* [*pirāva nāma rauta*]-**s/nt.**  
‘from: [Nile by name, a river]’ = ‘from the river Nile’ (DZc 9).

The construction may be found in Young Avestan, but the examples are too few to be certain:

*saošiiqs* [*vər<sup>2</sup>θraja nqma*]  
‘the Revitaliser [Obstruction-smasher by name]’ (Yt. 13.129).

#### 6.4.2 Vocative

The vocative is used for address and is often used together with an imperative or in questions:

OAv. [*f<sup>2</sup>rašaoštrā*] *aθrā tū . . . iḏī*  
‘[O Frašaoštra], you, **go** there!’ (Y. 46.16);

YAv. *kō* [*nar<sup>2</sup>*] *ahī . . .*  
*azəm ahmi* [*zaraθuštra*] *haomō*

‘who, [O man], are you? . . .  
I am, [O Zarathustra], the *haoma*’ (Y. 9.1–2);

OPers. [*martiyā*] *hayā auramazdāhā framānā hauv-taiy gastā mā θalaya*  
‘[O man], **do not let** Ahuramazdā’s command **seem** evil to you!’ (DNa 56–58).

In Young Avestan, a vocative may be introduced by the particle *āi*:

[*āi miθra vo<sup>u</sup>ru.gaoiiaō<sup>te</sup>*]  
‘[O Miθra, who provide wide grazing grounds], . . .’ (Yt. 10.42).

A 2nd pers. pronoun in the nominative may be followed by a vocative:

*tūm [miθra vo<sup>u</sup>ru.gaoiiaō<sup>te</sup>*  
‘you, [O Miθra, who provide wide grazing grounds], . . .’ (Yt. 10.94);

but one in the acc. by another acc.:

*ā [0βā ātrəm] gāraiemi*  
‘I sing (of) [you, the fire = O fire], a song of praise’ (*Ātaš Niyāyišn* 2).

### 6.4.3 Accusative

The accusative is used for the direct object and the predicate of the direct object, as well as appositions to these. Two accusatives are found with verbs of calling, asking, taking away, etc. The accusative is used with several prepositions, most of them local with the sense of direction.

#### 6.4.3.1 Direct object and predicate of direct object

OAv. [*ratūš*] *səṅgha<sup>tī</sup> ārma<sup>tī</sup>š*  
‘Humility is announcing [the models]’ (Y. 43.6);

[*spəntəm*] *a<sup>t</sup> [0βā] . . . mōj<sup>hī</sup>*  
‘thus, I (now) think of [you (as) life-giving]’ (Y. 43.5);

YAv. *ā<sup>t</sup> yimō [imqm zqm] vī.š<sup>u</sup>uuiia<sup>t</sup>*  
‘then Yima made [this earth] go to the sides’ (V. 2.11);

[*xšaiiamnəm ašauuanəm*] *dāiata<sup>u</sup>*  
place [in command the sustainer of Order]!’ (Y. 8.5);

OPers. *dārayavauš imam duvarθim . . . akunauš*  
‘Darius made [this gate]’ (XPa 11–13);

[*aniyam ušabārim*] *akunavam*  
‘[another] I made [camel-riding]’ = ‘I made another (cross the river) riding a camel’  
(DB 1.86–87).

#### 6.4.3.2 Direct objects with nouns and adjectives expressing actions

Nouns and adjectives expressing actions frequently take accusative objects:

OAv. *vohū xšaθrəm [va<sup>r</sup>īm bāgəm] ā<sup>bī</sup>.ba<sup>r</sup>ištəm*  
‘the good command (is) **the best bringer of** [a well-deserved portion]’ (Y. 51.1);

YAv. *sraošō* . . . [*driγum*] *Orātō.təmō*  
 ‘Sraoša, **the greatest protector of** [a poor (man)]’ (Yt. 11.3);

OPers. *auramazdā* [*0uvām*] *dauštā biyā*  
 ‘may Ahuramazdā be **the one who favours** [you]!’ (DB 4.54–55).

#### 6.4.3.3 Double accusative

Two accusative objects, one personal and one thing, is found with verbs meaning ‘ask for, take away from’:

YAv. [*yānəm vō*] *yāsāmi*  
 ‘I request [from you a request]’ (Y. 65.11);

OAv. *duš.sastiš* . . . *apō* [*mā ištīm*] *°iiantā*  
 ‘the one of bad announcing . . . **robs** [me of (my) wish]’ (Y. 32.9);

OPers. [*xšačam taya*] *gaumāta* . . . *adīnā* [*ka<sup>n</sup>būjīyam*]  
 ‘[the royal command (of) which] Gaumāta . . . **robbed** [Cambyses]’ (DB 1.43–48).

The second direct object can be an ‘inner object’, which may etymologically related to the verb or not:

*vīdāraēm zara0uštra aom asmanəm* . . .  
 [*yim*] *mazdā vaste* [*vaγhanəm*]  
 ‘I held out yonder sky, O Zarathustra,  
 [which] Mazdā **wears** (as) [(his) garment]’ (Yt. 13.2–3);

*yō* [*aēšməm*] . . . [*x<sup>r</sup>arəm*] *ja<sup>n</sup>ti*  
 ‘(Sraoša), who **strikes** [Wrath a wound]’ (Y. 57.10).

#### 6.4.3.4 Accusative with impersonal verbs

The construction of an impersonal verb (or noun + copula) + personal accusative (also known from Latin) is found in Old Persian (cf. MPers. Chapter 4, section 4.3.9.1).

with *vaγnav-* ‘believe’:

*mām/0uvām naiy vaγnavataiy*  
 ‘me/you it does not believe’ = ‘I/you do not believe’;

with *kāma ah-* ‘wish’:

[*auramazdām*] *ava0ā* [*kāma āha*]  
 ‘[to Ahuramazdā] thus [the wish was]’ = ‘Ahuramazdā wished it thus’ (XPf 21–22).

#### 6.4.3.5 Adverbial accusative

The accusative is used to express direction with verbs of motion and calling. In Old Avestan, it can be personal or impersonal. In Old Persian, it is used about place whither, alternating with *abiy*, while persons take the preposition *abiy*:

OAv. [*aēš<sup>m</sup>məm*] *hēnduarēntā*  
 ‘they would scramble together [to Wrath]’ (Y. 30.6);



YAv. (few certain examples):

*a'ime [gātūm] hē nišhiḍaēta*  
 'he should sit down quietly [in] his [place]' (V. 9.33);

OPers. *avam adam frāišayam [arminam]*  
 'him I sent [to Armenia]' (DB 2.30)  
 but

*adam frāišayam . . . [abiy avam]*  
 'I sent . . . [to (= against) him]' (DB 3.12–14).

#### 6.4.3.6 Accusative of length of time, space and measure

OAv. *vīspā aiiār<sup>3</sup>-p/nt.*  
 'for all (his) days' (Y. 43.2);

YAv. *hqminəm-ca zaiianəm-ca*  
 'throughout both summer and winter' (Y. 65.5 = Yt. 5.5);

*[varci'ōim paṇtaqm] azāte*  
 '(she = the cow) is driven [along the road of captivity]' (Yt. 10.38);

OPers. *[XL arāšnīš] baršnā*  
 '[forty cubits] in depth' (DSf 26).

#### 6.4.3.7 Accusative 'of respect'

This accusative (like the instrumental) expresses 'with respect to' and is often used with superlatives and in *figura etymologica* (see section 6.4.7.1c).

OAv. *voḥū uxšiiā managhā . . . [tanūm]*  
 'grow [in body] by good thought!' (Y. 33.10);

YAv. *yaṭ as [ašəm] ašauuastəməm*  
 'as he was [in Order] the most Orderly' (Yt. 19.79).

#### 6.4.3.8 Accusative with adposition

Numerous adpositions govern the accusative. When they govern more than one case, the function of the accusative is similar to that of the accusative in general (e.g. motion toward):

Av. *adā'ri* 'beneath'; – *aṇtar<sup>3</sup>*, *aṇtar<sup>3</sup>-ca*, OPers. *a<sup>h</sup>tar* 'between'; – Av. *a'bī*, *auui*, *aoi*; OPers. *abiy* 'to', etc.; – Av. *a'pī* 'after, throughout'; – OPers. *pariy* 'about'; – *paišiyā* 'before'; – Av. *pci'ti*, OPers. *patiy* (*patīš*) 'on, at, against' etc.; – Av. *para* 'before'; – OPers. *para<sup>h</sup>* 'beyond'; – Av. *pasca*, OPers. *pasā* 'behind, after'; – Av. *tarō*, *tarasca* 'across, over'; – Av. *upa*, OPers. *upā* 'in, at, under (during the reign of)'; – Av. *upa'ri*, OPers. *upariy* 'over, on, above, compared to'.

#### 6.4.3.9 Young Avestan nominative for accusative

In Young Avestan, whole phrases in the nominative, especially plural, often occupy positions in the sentence which would require them to be in the accusative. This is no doubt an effect of the oral transmission:

*yaṭ bauuāni a'βi.vaniiā*  
*[vispe daēuua mašiiā-ca vispe yātauuō pa'rikās-ca]*  
 for:  
 \**[vispē daēuuū mašiiās-ca vispē yātūš pa'rikās-ca]*  
 'that I may be an overcomer of = overcome  
 [all old gods and men, all sorcerers and witches]' (Yt. 15.12).

#### 6.4.4 Genitive

The main function of the genitive is 'adnominal'. The main adnominal functions are 'possessive' and 'partitive'. The genitive is also used with verbs and adjectives.

##### 6.4.4.1 Possessive genitive

Possession is expressed by the genitive (also in noun clauses, where gen. + 'to be' = 'to have', see section 7.1.6.3). The use of the possessive genitive ranges from material possession to genitive of definition. A possessive genitive can be coordinated with a possessive pronoun. Series of two or three dependent genitives are common:

OAv. *[vaṅhēuš] dazdā [manaṅhō]*  
*[šiiāoθ<sup>n</sup>nanəm] [aṅhēuš] mazdāi*  
 '(the Model) [of good thought] is established –  
 (and) [of the actions] [of the (new) existence] – for the All-knowing one' (Y. 27.13;  
 other parsing possible);

YAv. *tum zaraθuštrō [nmānahe] [po<sup>r</sup>rušaspae]*  
 'you (are) Zarathustra [of (= belonging to) the house] [of Pourušāspa]' (Y. 9.13);

OPers. *[dār<sup>a</sup>yavahauš XŠh<sup>a</sup>yā] viθiyā*  
 'in the house [of king Darius]' (DPi).

The genitive can be governed by the prior member of a compound:

YAv. *[kamarəðō].janō [daēuuanəm]*  
 'the [head]-smasher [of the old gods]' (Y. 57.33).

See also section 10.5 Figura etymologica.

##### 6.4.4.2 Subjective and objective genitive

Subjective and objective genitives represents 'transformations' of sentences of the structure SV or OV > N<sub>gen</sub> N:

OAv. *aēšē [ašahiiā]*  
 'in search [of Order]' < 'he seeks order-DO' (Y. 28.4);

YAv. *[ahe] yasna [yazatanəm]*  
 'by [his]-S/gen. sacrifice [of = to the gods- DO/gen.]' < 'he-S sacrifices to the gods-DO' (Y. 57.3);

OPers. *xšāyaθiya [dah<sup>a</sup>yūnām]*  
 'king [of/over lands]' < 'king rules the lands' (DNa 8–11).

#### 6.4.4.3 Defining or descriptive genitive

This genitive is used to define or delimit the scope of a noun. Its most common use is to define a crime of which one is guilty or accused, that for which one must pay penalty, or that which one confesses (the ‘forensic/legal’ gen.), but genitive phrases describing persons or objects are also found:

Descriptive genitive:

YAv. *[vīsō sūraiiā] Oraētaonō*  
 ‘Thraetaona [of a vigorous house]’ (Y.9.7);

*vazrəm . . . [zarōiš aiiāḡhō] frahixtəm*  
 ‘a cudgel . . . cast [in tawny bronze]’ (Yt. 10.96).

‘Forensic’ genitive:

OAv. *yadā [aēšqm] kaēnā jama’ī [aēnaḡḡm]*  
 ‘when the **retribution** comes [for these sins]’ (Y. 30.8);

YAv. *hāuuāḡta [aētahe šīiaoθnahe] vər<sup>o</sup>zīiḡn*  
 ‘they should perform equal (penalties) [for this action]’ (V. 15.14).

#### 6.4.4.5 Partitive genitive

The partitive genitive expresses that something is part of a totality or an example of group and is found with nouns (one among, etc.), superlatives or adjectives with implicit superlative meaning (often with *hātqm* ‘among/of (all) those that are’), pronouns, adverbs of place and time, numerals (from ‘twenty’ and up), and other words expressing quantity. It is often used in expressions of time (‘sometime during’), sometimes of place (‘somewhere in’):

OAv. *[hātqm] huuō aojištō*  
 ‘he (is) **strongest** [of/among (all) those who are]’ (Y. 29.3);

YAv. *yātauuō [mašīiānqm]*  
 ‘sorcerers [among men]’ (Yt. 8.44);

OPers. *VIII manā [taumāyā] tayaiy paruwam xšāyaθiyā āha*  
 ‘(there were) eight [of my family] who had been kings before’ (DB 1.8–10).

A ‘free’ partitive genitive (French *du*, etc.) is found with verbs of giving, bringing, partaking, etc.:

YAv. *yaḡ vā mašīiō [mašīianqm xšudranqm] para.gə<sup>o</sup>ruuaiie’ti*  
 ‘or when a man receives [(some) men’s semen]’ (V. 8.32).

#### 6.4.4.6 Genitive with adjectives and verbs

The genitive with adjectives meaning ‘full of, satisfied with’ and with verbs meaning ‘rule (over), be in command of’ is probably a variant of the partitive genitive:

OAv. *yōi [a-sruštōiš] pər<sup>o</sup>nāḡhō*  
 ‘who, **full** [of refusal to listen]’ (Y. 44.13);

YAv. *īm zā bauuaṭ pər<sup>3</sup>na* [*pasuuqm*]-*ca*  
 ‘this earth became **full** [of sheep] and . . .’ (V. 2.8);

OPers. *adam[-šām]* *patiyaxšayaīy*  
 ‘**I ruled** [over them]’ (DNa 6).

OAv. *kaṭ mōi uruuā isē cahiiā* [*auuaṅhō*]  
 ‘does my soul, I wonder, **command** anyone’s [help]?’ (Y. 50.1);

YAv. *naēda-ca pascaēta hāu nā . . . isaēta* [*frašūtōiš*]  
 ‘not **may** that man thereafter **be capable** [of going forth]’ (P. 22).

#### 6.4.4.7 Genitive with adpositions

A few adpositions govern the genitive, some of them also other cases:

OPers. *anuv* ‘according to’; – Av. *pa’ti* ‘on, with, in return for’; – *parō* ‘before, in front of’; – *pasca*, OPers. *pasā*; – OPers. *rādiy* ‘on account of’.

#### 6.4.5 Dative

The dative (OPers. gen.-dat.) expresses the indirect object (usually animate or personified inanimate) with transitive verbs, most often accompanying a direct object, in the sense of ‘giving sth. to sb.’, ‘doing sth. for sb.’ (*dativus commodi*), but also with intransitive verbs.

##### 6.4.5.1 Indirect object

When accompanied by a direct object, the dative is usually (but not exclusively) a personal dative of the indirect object:

OAv. [*kahmāi*] *mā* *0βar<sup>3</sup>zādūm*  
 ‘[for whom] have you carved **me**?’ (Y. 29.1);

*aṭ mā . . .* [*mazōi magāi.ā*] *pa’ti.zān<sup>4</sup>tā*  
 ‘so . . . acknowledge **me** [for the great gift exchange]’ (Y. 29.11);

YAv. *yā aom pu0rəm bara’ti* [*aniiahmāi aršānāi*] *varštəm*  
 [*pa’0e*] *upa.bara’ti*  
 ‘(the evil woman) who bears that son **produced** [for another male]  
 (and then) presents (**him**) [to (her) husband] (as his)’ (Yt. 17.58);

OPers. [*aniyahçiyā*] *asam frānayam*  
 ‘[for another] I brought **a horse**’ (DB 1.87).

This dative can be governed by a compound:

YAv. *vāstrō.bər<sup>3</sup>taheca* [*gauue huδāṅhe*]  
 ‘and of the one by whom **grass** is brought [to the cow giving good gifts]’ (Vr. 1.9).

##### 6.4.5.2 Final dative

The dative of inanimate nouns can express purpose (final dative), often in connection with a verb of movement and together with a dative of the person for whose benefit it happens, the *dativus commodi*:

OAv. *ku0rā [mər'z̄dikāi] axštaŋ*  
 'where will (someone) stand by [for (= to show) mercy]?' (Y. 51.4);

ā *mōi [raf'δrāi] zauuēṅ jasatā*  
 'come to (my) calls (acc. of goal of motion) [for support] **for me!**' (Y. 28.3);

YAv. *ahmāi jasa'ti [auuajhe]*  
 'he comes [for help] **for him**' = 'he comes in order to help him' (Yt. 10.87).

#### 6.4.5.3 Dativus commodi

This dative is found especially with intransitive verbs and is often accompanied by an impersonal dative of purpose:

YAv. *ā'ŋ [yimāi] [xša0rāi] Orisatō.z'ma həṅjasənta*  
 'then [for Yima] [for (his) command] three hundred winters came together' (V. 2.8);

*[a'βiiō vaŋ'hibiiō] imā zao0rā*  
 '[for the good waters (are)] these libations' (Y. 22.2);

OPers. *imā dahayāva tayā [manā] \*patiyāiša'*  
 'these (are) the lands which came [to me]' (DB 1.13).

This dative is also used to refer to future time:

*parō.asnāi aŋ'he*  
 'for (the duration of his) future existence' (Āfr. 3.7).

#### 6.4.5.4 Dative with nouns and adjectives

The same dative is found with nouns and adjectives ('good for', etc.) and interjections (*ušta* 'wished-for-things, good luck', *nəmō* 'reverence/homage to, hail!', *sādrəm* 'bad luck for!', OAv. *auuōi*, YAv. *āuuōiia* 'woe to!'):

OAv. *huuō ["rušāē'biio] spəntō*  
 'he is **life-giving** [for the meager ones]' (Y. 29.7);

YAv. *ušta buiāŋ [ahmāi na're]*  
 'may there be **wished-for things/good luck** [for this man]!' (Y. 62.1).

#### 6.4.5.5 Dative of agent

The dative is found with verbal adjectives in *-iia-*, *-0a-*, or *-0βa-* (*-tuua-*), meaning 'which should be done **by** somebody':

OAv. *aŋ tā vaxšiiā išəntō*  
*yā mazdāθā hiiaŋcū [vīdušē]*  
 'thus, I shall speak, O (you) who wish to come,  
 those (words) which **should be paid attention to**,  
 even when [by someone who knows] (them)' (Y. 30.1);

YAv. *mi0rō yō nōiŋ [kahmāi] aiβi.draoxdō*  
 'Miθra, who (is) not **to be deceived** [by anybody]' (Yt. 10.17).

## 6.4.6 Ablative

The ablative expresses separation – movement away from; distance from or point of origin seen from nearby (usually with *ā*) – and comparison (‘than’). In Old Persian, these functions of the instrumental-ablative require the preposition *hacā*.

## 6.4.6.1 Ablative of separation

OAv. *yō īš pāt [dar<sup>o</sup>sāt] ašahiā*  
 ‘which shall **keep** them [from the sight] of Order’ (Y. 32.13);

*aṇtar<sup>o</sup> vīspāng drəguuatō [haxmāng] °mruīē*  
 ‘**I am banning** [from (their) following] all those possessed by the Lie’ (Y. 49.3).

Note the special uses of the ablative in the following instances:

YAv. [*aētahmāt puθrāt*] *mimar<sup>o</sup>xšaṇ<sup>o</sup>ha*  
 ‘rid yourself [of this child] by destroying it!’ (V. 15.14);

ablative of separation plus *parō* ‘before, away from’:

YAv. *hō nōiṭ . . . frānāmāte [θβaēsāt {parō daēuuāē<sup>i</sup>biiō}]*  
 ‘he does not **yield** [{before the old gods} to (their) hostility]’ (Y. 57.18).

## 6.4.6.2 Ablative of comparison, difference and preference

This ablative is found with comparatives, with *aniia-* ‘other’ (tends to become a mere particle ‘other than’), and with verbs:

comparison:

YAv. *vātō . . . hubao<sup>i</sup>diš hubao<sup>i</sup> dītarō [aniiaē<sup>i</sup>biiō vātaē<sup>i</sup>biiō]*  
 ‘a fragrant wind **more fragrant** [than other winds]’ (H. 2.7);

OPers. *fratarā maniyaiy [afuvāyā]*  
 ‘I consider myself **superior** [to fear]’ (DNb 38);

with *aniia-*:

OAv. *aniiēm [θβahmāt āθras-cā manāḥas-cā]*  
 ‘other [than your fire and thought]’ (Y. 46.7);

YAv. *aniiō [θβaṭ yaṭ zaraθuštrāt]*  
 ‘(to anybody) other [than you, Zarathustra]’ (V. 2.2).

The ablative may be governed by the first member of a compound:

YAv. *uyra.zaošā [tbišiiānbiiō]*  
 ‘those with **strong(er)** desires [than those hostile (to us)]’ (Yt. 13.31).

## 6.4.6.3 Ablative of time or place throughout which

In Young Avestan, the ablative can express time or place throughout which or all the way up to, often with the particle *-a* (see section 3.1.5.3):

[*asnā́t-ca xšafnā́t-ca*] . . . *āpō auua.barəntē*  
 ‘[day and night] . . . the waters pour down’ (Yt. 5.15);

*drujō [vaēsmənd-a] azəmnaqm*  
 ‘being led [(all the way) to the entrance hall] of the Lie’ (Yt. 10.86; see de Vaan 2001).

#### 6.4.6.4 Ablative with adpositions

Several adpositions govern the ablative, some of them also other cases; the function of the ablative is then similar to that of the ablative in general (e.g. motion away):

OAv. *a’bī* ‘as far as . . . is concerned, to the extent one can’; – YAv. *aδa’ri* ‘(just) under’; – OPers. *anuv* ‘along, on (river)’; – Av. *ā*, YAv. *-a* ‘all the way to, at (*chez*), out of, throughout’; – *haca* ‘from, in accordance with, on the part of’ (also with ‘fear’); – OAv. *hanar* ‘without’; – YAv. *maṭ* ‘with’; – *pa’ri* ‘from, away from, without’; – *pa’ti* ‘from on the top of, at, beside, without’; – Av. *parā* ‘before’; – YAv. *paraḡt* ‘aside from’: – Av. *parō*, *parē* ‘before, in front of, from, because of’; – YAv. *pasca* ‘after’; – *upa’ri* ‘in, throughout’.

#### 6.4.6.5 Young Avestan ablative = genitive

There are few examples in Young Avestan of genitives used as ablatives (other than of *a*-stems). Whether these are survivals of the old ablative forms or errors cannot be verified:

*haca [hauuaitiās<sup>3</sup> tanuuō]*  
 ‘away from [one’s own body]’ (Y. 10.5) [cf. *auui x<sup>3</sup>aēpaiθiiās<sup>3</sup> tanuuō-p/acc.* in section. 6.5.4.1];

*fraš [aiiaṅhō] frasparaṭ*  
 ‘he jumped forth (away) [from the metal (pot)]’ (Y.9.11).

#### 6.4.7 Instrumental

The instrumental expresses means/instrument and accompaniment.

##### 6.4.7.1 Instrumental of means

This is one of the most common cases in the Avestan texts, and, especially in Old Avestan, it is often difficult to decide which nuance is intended. In Old Avestan, the instrumental of means can also be used of (divine) persons.

This instrumental is also used of space through which (the road along which) on travels; to express reason or cause; measure and price; and as the instrumental of respect:

OAv. *kā [yā] mā uxšie’ti nər<sup>3</sup>fsa’ti θβaṭ*  
 ‘who (is he) [through whom] the moon is (now) first waxing then waning’ (Y. 44.3);

YAv. *yō aēšməm [stər<sup>3</sup>θβata sna’θiša] . . . ja’nti*  
 ‘he who smites Wrath [with a stunning weapon]’ (Y. 57.10);

OPers. *imā dahayāva [tayanā] manā [dātā] apariyāya*  
 ‘these lands behaved [by/according to (that) which (is)] my [law]’ (DB 1.23).

6.4.7.1a *Instrumental of space through which*

OAv. *tēm aduūānəm . . . daēnā . . . [yā hū.kəʳtā] . . . "ruuāxsat*  
 'that road . . . [along which, well made], the vision-souls have walked' (Y. 34.13);

YAv. *huuar<sup>3</sup> [auua paθa] aēti*  
 'the sun goes [along yonder path]' (Yt. 13.16);

OPers. *[viθbiš-cā] tayā-dīš gaumāta haya maguš adīnā*  
*adam kāram gāθavā avāštāyam*  
 'and [throughout the houses/towns] which Gaumāta the Magian had taken from them,  
 I settled the people (back) in its place' (DB 1.65–66).

6.4.7.1b *Instrumental of reason and cause*

OAv. *vaijəuš [əuuištī] manaŋhō*  
 '[on account of not finding] a good thought' (Y. 34.9);

YAv. *yō gāθā asrāuuaiiō [qsta vā tarō.ma'ti vā] tanum piriie'ti*  
 'he who (goes) without reciting the Gāθās [out of evilness or scorn] forfeits his body'  
 (N. 41).

6.4.7.1c *Instrumental of respect*

This instrumental (like the accusative) expresses 'with respect to' and is often used with superlatives and in *figura etymologica* (cf. section 6.4.3.7):

OAv. *ārma'tiš vaxšt / [utaiiū'tī təuuištī]*  
 'Humility (the earth) has grown [with respect to \*texture (and) \*tension]' (Y. 34.11);

YAv. *[ama] ahmi amauuastəmō*  
 '[in force] I am the most forceful' (Yt. 14.3);

OPers. *utā [abiš] nāviyā āha*  
 'and it (= the Tigris) was \*deep [with waters] (= in spate)' (DB 1.85–86).

6.4.7.1d *Measure and price*

OAv. *f'rašəm [vasnā] ha'θiiēm dā ahūm*  
 'you have (now) made the existence "juicy" (filled it with vitalising juices) [in (exchange) value]' (Y. 34.15);

YAv. *imqm zqm vī.šāuuaiiat [aēuua θrišuuu] ahmāt masiiehīm*  
 'he made this earth go apart (to make it) [by one-third] larger' (V. 2.11);

OPers. *XL arāšnīš [baršnā]*  
 'forty cubits [in depth]' (DSf 26).

Here may also belong the use of the instr.-abl. *raucabiš* 'days' in the Old Persian dating formula:

month name (X) in gen.-dat. + *māhəyā* 'of the month' + numeral (Y) + *raucabiš*  
*θakatā āha*  
 'of the month of X, by Y days, (the days) had passed' = 'on the Yth of X',



but  
 month name (X) in gen.-dat. + *māhəyā 1 rauca<sup>h</sup> 0akatam āha*  
 ‘of the month of X, one day had passed’ = ‘on the first of X’.

#### 6.4.7.2 Instrumental of accompaniment and dissociation/deprivation

This instrumental is used with verbs of motion, notably *haca-* (mid.) in the sense of ‘be accompanied by, be together with, unite/mingle with’, as well as with other verbs and expressions for ‘togetherness, union’, etc. In Old Persian, this function requires the preposition *hadā*:

##### 6.4.7.2a Accompaniment

OAv. *a0rā tū [ar<sup>o</sup>drāiš] idī*  
 ‘you, go there [with the (heavenly) arbiters]!’ (Y. 46.16);

YAv. [*x<sup>r</sup>ar<sup>o</sup>0aē<sup>i</sup>biiō*] *pascaēta āstaiiṇta*  
 ‘afterward they should approach [with foods]’ (V. 3.18).

##### 6.4.7.2b Dissociation/deprivation

OAv. *parō vā [vīspāiš] °vaox<sup>o</sup>mā [daēuuāiš]-cā*  
 ‘we have (always) said you (are) beyond [others], both [old gods] and . . .’ (Y. 34.5);

YAv. *vī [daēuuāiš] . . . sarəṃ mruuīē*  
 ‘I forswear the company [with the old gods]’ (Y. 12.4).

#### 6.4.7.3 Instrumental with adpositions

A few adpositions govern the instrumental, some of them also other cases: Av., OPers. *hadā/hada* ‘(together) with’; – Av. *ha0rā* ‘in the same place as, together with’; – *maṭ* ‘(together) with’; – *pa<sup>t</sup>i*, OPers. *°patiy* ‘at, close to, in, throughout’; – *pasca* ‘after’.

#### 6.4.7.4 Case replacements

In Young Avestan, the instrumental plural commonly takes the dat.-abl. ending *-biiō*:

*yō yu<sup>i</sup>diē<sup>i</sup>ti . . . [hada daēuuāē<sup>i</sup>biiō]*  
 ‘who fights . . . [with the old gods]’ (Y. 57.17).

In Young Avestan, the nominative-accusative plural forms of neutre (*r/*)*n*-stems commonly take attributes in the instrumental plural (a still unexplained peculiarity of YAv.):

*yim [vispāiš]-p/instr. pa<sup>t</sup>išmarəṇte [yāiš] spəṇtahe mainiiēuš [dāmaṇ]-p/nom.*  
 ‘whom [all the creatures] of the Life-giving Spirit recall’ (Yt. 8.48).

#### 6.4.8 Locative

The locative indicates time and place in/at which (when?, where?). It also indicates motion into or inside (also ‘wishing sth. upon sb.’). A special use of the loc. is the ‘loc. of emotion’ (‘to my sorrow’; see Kellens and Pirart 1990, 43).

## 6.4.8.1 Locative of place and time

OAv. [0βahmī] ā [daqm] nipājḥē  
‘you are (now) guarding (it) there [in your abode]’ (Y. 49.10);

YAv. x’ahmi daqm x’ahmi ciθre  
‘in his own house, in his own lineage’ (Vr. 14.2);

[fraiia’re aiiqn] bauua’ti hubaδrō  
‘[On a future day] he becomes lucky’ (Aog. 53);

OPers. pasāva-diš auramazdā manā [dastayā] akunauš  
‘then Ahuramazdā placed them [in] my [hand]’ (DB 4.35).

## 6.4.8.2 Locative of prize won

The locative is used to indicate things to be won in competition, especially with the verbs *zā-* ‘to leave (the competitor behind) at = in (the race for) X’ and *yūδiia-* ‘to fight (for)’:

OAv. yōi zazənti [vaḡhāu srauuahī]  
‘who shall be leaving (the others) behind = win [in (the race for) good renown]’  
(Y. 30.10);

YAv. zazuš [vīspaēšu vaḡhušu]  
‘having won [in (the race for) all good things]’ (P. 26);

tā yūδiie’nti pəḡanāhu [hauue asahi šōiθraēca]  
‘(the fravashis) fight in battles (each) [for (her) own place and settlement]’ (Yt. 13.67).

## 6.4.8.3 Locative with adpositions

A few adpositions govern the locative, some of them also other cases:

OAv. a’bī ‘in, on, regarding’; – OAv. ā ‘in, on’; – Av. ākā ‘in the presence of, in view of’ (Skjærvø 2005a: 203–5); – OAv. pa’rī ‘among’; – Av. pa’tī ‘on; at, in return for’; – YAv. upa ‘in’.

## 6.5 Uses of pronouns and pronominal forms

## 6.5.1 Personal pronouns

## 6.5.1.1 1st and 2nd persons, tonic forms

The tonic (independent, stressed) forms of the personal pronouns are used in Old Avestan for emphasis and contrast; in Young Avestan, they are used more liberally; in Old Persian, personal pronouns are rarely omitted, and only in sequences of clauses at least one of which contains the pronoun.

OAv. [azəm] -cī . . . [0βaqm] mējḥī . . .  
‘[I] for my part (now) consider [you] . . .’ (Y. 29.10);

YAv. [tūm] nō āθraom zaota-ste . . . [azəm] . . .  
‘[you], O priest, (are ordered) to be our libator . . . (while) [I] . . .’ (Vr. 3.7);

OPers. [*adam*] *dārayavauš xšāyaθiya vazaraka*  
 ‘[I] (am) Darius, the great king’ (DB 1).

### 6.5.1.2 3rd person

Of the three 3rd-person pronouns *ha-lta-*, *i-*, and *a-*, the first two have only nom. and acc. forms, the third supplies the other oblique forms. *ha-lta-* is often difficult to distinguish from the far-deictic demonstrative pronouns. The classification of the pronoun *huuō* is often unclear.

#### 6.5.2.2a *ha-*, *ta-*

The forms of *ha-lta-* are usually emphatic and are often found in initial position followed by the emphatic *zī*, as antecedent to a relative pronoun, and as emphatic anaphoric. They are found in second position mainly in questions and after sentence-initial particles:

OAv. [*huuō*] [*tēng*] *frō.gā . . . caraṭ*  
 ‘[he] shall make [them] the lead bulls’ (Y. 46.4).

When used as antecedents for relative pronouns, they may be separated from the relative or precede it immediately (see section 8.2.2):

YAv. [*hō*] *zī asti . . . yō ahurō mazdā*  
 ‘for [he] is . . ., (he) **who** (is) Ahura Mazda’ (Vr. 2.7);

*kō* [*hō*] *aṅhaṭ . . . yō . . .* [*hō*] *bā aṅhaṭ . . . yō*  
 ‘who may [*he*] be . . . **who** . . . will be [*he*] . . . **who**’ (V. 7.78–79).

On OPers. *hauv/ava-*, see section 6.5.3.4.

#### 6.5.2.2b *The oblique pronominal stem a-*

This pronoun is commonly used as a simple enclitic anaphoric, also reflexive, but it also refers emphatically to an object in contrast to another. In the latter usage it may be difficult to distinguish it from its use as the oblique stem of the near-deictic demonstrative pronoun *ima-*:

OAv. [*ahmāi*]-*cā xšaθrā jasaṭ*  
 ‘and [to him/this one] he shall come with command’ (Y. 30.7);

YAv. *sruuaēna* [*aēšqm*] *safūṅhō zaranīia*  
 ‘benailed are [their] hooves, golden’ (Y. 57.27).

#### 6.5.2.2c *i-*, *hi-/ši-*, *di-*

This pronoun can be used proleptically for a noun (pronoun) or for direct speech or anaphorically; the noun may be gapped:

OAv.,

- proleptic:

*yōi* [*īm*] *f<sup>3</sup>rašēm kər<sup>2</sup>naon ahūm*  
 ‘(those) who shall make [it] perfect, (this) existence’ (Y. 30.9);

- anaphoric:

*aṭ [hī] [aiiā] frauar<sup>2</sup>tā*  
 ‘but [she] chose among [those two]’ (Y. 29.7);

- both proleptic and anaphoric:

*nōiṭ tā [īm] xšnāuš vaē piō . . . zaraθuštrəm . . .*  
*hiiaṭ [hōi] [īm] . . . zōiš<sup>2</sup>nū vāzā*  
 ‘the \*trembler did, for (all) that, not favour [him], Zarathustra,  
 when [his] two draught animals (were) \*angry at [him]’ (Y. 51.12);

YAv. *pascaēta [diš] fraspaie<sup>2</sup>ti miθrō*  
 ‘then Miθra casts [them (masc.)] away’ (Yt. 10.43);

OPers. *xšačam . . . adam[-šim] gāθavā avāstāyam*  
 ‘the royal command . . . I set [it] down in its place’ (DB 1.61–63);

*abicariš . . . tayā[-diš] gaumāta . . . adīmā*  
 ‘the pastures that Gaumāta had taken [from them]’ (DB 1.64–66).

OPers. sing. *-šim* is also used as instr. -abl.:

*kāra[-šim] hacā daršam atçrsa*  
 ‘the army/people feared [him] strongly’ (DB 1.43–53).

### 6.5.1.3 Enclitic pronouns 1st, 2nd and 3rd person

Enclitics commonly follow the first word in a clause or metrical unit (‘verse line, half-line’), less commonly they are placed at the end of a metrical unit. In clauses with elements raised into the first position, the enclitic may remain in its place. Several enclitics may follow one another. In Old Persian, the position of enclitics is relatively free.

#### 6.5.1.3a Nominative

OAv. *mīždəm mazdā yehiiā [tū] daθrəm*  
 ‘the fee whose depository [you] are, O Mazdā’ (Y. 34.13);

*aṭ [yūš] daēuuā višpāṅhō akāṭ manaṅhō stā ciθrəm*  
 ‘but [you], O old gods, are all the \*seed (issued) from an evil thought’ (Y. 32.3);

YAv. *ā [tū] mē aētaiiā zaoθraiiā fraṅ<sup>2</sup>harōiš*  
 ‘then may [you] partake of this my libation’ (Yt. 5.91).

#### 6.5.1.3b Accusative

Accusative forms are distinct from genitive-dative forms in Old Avestan, but Young Avestan uses the genitive-dative forms of the 1p and 2p, occasionally also the 3s, pronouns as accusative. In Young Avestan and Old Persian, the tonic forms of the 1st and 2nd pers. forms are also used as enclitics:

OAv. *ašā kaṭ [θβā] dar<sup>2</sup>sānī*  
 ‘shall I see [you] through Order, I wonder’ (Y. 28.5) [*ašā* raised];

*āuiš [nā] aṅtar<sup>2</sup> hēntū . . . rātaiiō*  
 ‘let gifts appear among [us]!’ (Y. 33.7)

YAv. *aoi [maqm] . . . stūdi yaθa [mā] . . . stauuq̄n*  
 ‘praise [me] . . . like they will praise [me]!’ (Y. 9.2);

*mā ciš paʹruuō buʹdiiaēta [nō]*  
 ‘may no one notice [us] first!’ (Y. 9.21) [octosyllabic verse];

OPers. *mā-taya[-mām] xšnāsātiy*  
 ‘lest he recognise [me]’ (DB 1.52).

### 6.5.1.3c Genitive-dative

OAv. *sraotā [mōi] mərʹzđātā [mōi]*  
 ‘listen to [my] . . .! be merciful for [my] . . .!’ (Y. 33.11);

YAv. *ašaiia [nō] paʹtī.jamiāi*  
 ‘may he in (re)turn come [to us] in Orderly fashion!’ (Y. 7.24);

OPers. *vašnā auramazdāha utā[-mai y]*  
 ‘by the greatness of Ahuramazdā and [me]’ (DB 4.46).

### 6.5.1.3d Ablative

OAv. *yā [0βaɪ] . . . asruštīm . . . yazāi apā*  
 ‘I who shall sacrifice away [from you] lack of listening’ (Y. 33.4);

OPers. *tayā hacā[-maʹ] atarsa*  
 ‘. . . which feared [me]’ (DPe 9).

### 6.5.2 Possessive pronouns

Only Old Avestan has genuine possessive pronouns; in Young Avestan and Old Persian, the genitive of the personal pronouns is used:

OAv. *[mōʹruuā] gēuš-cā aziiā*  
 ‘[my breath-soul] and that of the fertile cow’ (Y. 29.5);

*nōiɪ [nā manā] . . . hacīntē*  
 ‘[our (= your and my) thoughts] are not in agreement’ (Y. 45.2);

*tēm [ahmākāiš azdabīš]-cā uštānāiš-cā yazamaidē*  
 ‘to him we are sending our sacrifice together with [our bones] and life breaths’  
 (Y. 37.3);

YAv. *[yūšmākəm yasnāi]-ca . . . [ahmākəm hauuq̄ʹhāi]-ca*  
 ‘for [your sacrifice], for [our] \*well-being’ (Y. 14.1).

### 6.5.3 Demonstrative pronouns

The two demonstrative pronouns *ima-* and *aua-* denote near and far deixis, respectively, that is, what is near the speaker in space and time, both in his immediate surroundings, as opposed to farther away, and to his cosmic place on earth, as opposed to in heaven; the waters and fires on earth, as opposed to those in heaven, etc. The two are often contrasted in the texts:

OAv. [imā] raocā bar<sup>2</sup>zištəm . . . bar<sup>2</sup>zimanəqm [auuaṭ]  
 '[these] lights (= the ritual fire) . . . [yonder] highest of heights (the sun)' (Y. 36.6);

YAv. [iməqm]-ca zqm yazama'de [aom]-ca asmanəm yazama'de  
 'and we sacrifice to [this] earth, and we sacrifice to [yonder] sky' (Yt. 13.153);

OPers. haya [imām] būmim adā haya [avam] asmānam adā  
 'who set in place [this] earth, who set in place [yonder] heaven' (DE 2-4).

### 6.5.3.1 The near-deictic *ima-la-*

In addition to its local-temporal deixis referring to objects in the world, this pronoun can refer to on-going, present events, for instance, those taking place in the sacrifice; it is often accompanied by 1st person references. It also refers to the just-mentioned or to the following:

YAv. [iməm] haoməm . . . āiiese yešti  
 'by my sacrificing I harness [this] haoma' (Y. 22.1-2);

ušta buiāṭ [ahmāi] na're  
 'may there be wished-for things [for this man]' (Y. 62.1);

aṅtar<sup>2</sup>-ca druuaṅtəm āmrūta [aiia] aṅtar<sup>2</sup>.uxti  
 'he forswore the Lieful One with [this] forswearing: . . . ' (Y. 19.15);

pa'ti tē . . . [imā] sruuā vaēdaiemi  
 'to you I exhibit [these] nails' (V. 17.9);

OPers. mām auramazdā pātuv hacā gastā  
 utā-maiy viθam utā [imām] dahayāum  
 'may Ahuramazdā protect me from evil,  
 both my house and [this] (my) land!' (DNa 51-55);

ava [ahayāyā] dipiyā naiy nipištam  
 'that is not written in [this] inscription' (DB 4. 47-52).

### 6.5.3.2 The near deictic *aēša-laēta-*

In its general use in the ritual and narrative texts, this pronoun overlaps to some degree with *ima-la-*:

YAv. [aētahmi] aṅhuuō yaṭ astuua'ṅti  
 'in [this] bony existence' [the existence of living beings with bones];

[aēta] vaca maδaiiaṅ'ha  
 'intoxicate yourself with [this] word!' (Vr. 8.1).

It is frequently used with 2nd-person deixis:

YAv. [aēša] zaoθra pa'ti.jamiāṭ tauua ahurāne ahurahe  
 'may [this] libation (of yours) arrive, yours, O lady of the Lord' (Y. 68.1);

[aētaē]-ca rē vacō  
 'and [these] words of yours' (Yt. 14.46).

The majority of occurrences of this pronoun is in the legal texts. Most of the contexts are of the type ‘how should this/these X(s) behave in the case of this Y? The meaning of the pronoun is therefore very often ‘the X in question, this X we are discussing, the aforementioned X’. The pronoun seems sometimes to be close to *ha-* in function, cf. *hō zī asti* and *aēšō zī asti*, probably with just a slight difference in deixis:

YAv. *caiiō āt [aēte] raocā aghən . . .*  
*yōi auuaθa ā.raocaiie'nte [aētaēšuuā] var<sup>3</sup>fšuuā*  
*yō yimō kər<sup>3</sup>nao t*  
 ‘but which were [these] lights  
 that shine hither in that way in [these] \*enclosures  
 that Yima made?’ (V. 2.39);

OPers. *mām auramazdā pātuv . . .*  
*[aita] adam auramazdām jadyāmiy [aita]-mai y auramazdā dadātuv*  
 ‘may Ahuramazdā protect me . . .  
 [this] I ask Ahuramazdā for; may Ahuramazdā give me [this]!’ (DNa 51–55);

contrasting *aēta-* vs. *auua-*:

YAv. *mā mē [aētaiiā] zaoθraiiā fraṇ<sup>3</sup>harəntu . . .*  
*nōit [auuā] zaoθrā pā'ti.vise yā māuuōiia fraṇ<sup>3</sup>harənti*  
 ‘let them not partake of [this] libation of mine . . .  
 I do not accept [those] libations of which they partake for my sake’ (Yt. 5.92–93).

#### 6.5.3.3 The demonstrative pronoun *huuō*, *ana-*

The pronoun *huuō* can have 2nd-person deixis (cf. Jamison 1992, Watkins 2000):

OAv. *“ruuāzištō [huuō] nā . . . pā'ti.jamiiā*  
 ‘[you there], who gladden (us) the most, may you \*in return come to us’ (Y. 36.2).

The pronominal stem *ana-* may have 2nd-person and 3rd-person deixis, with contextually derogatory reference:

OAv. *[anāiš] vā nōit . . . ašəm-cā yānāiš zar<sup>4</sup>naēmā*  
 ‘may we not anger you, as well as Order and (your) thought, the best, with [those] requests (to you)’ (Y. 28.9);

*[anāiš] ā manahīm ahūm mər<sup>3</sup>ngduiē*  
 ‘by [those] actions/utterances [(of yours)] you are destroying (here and now) the existence of thought’ (Y. 53.6);

YAv. *aθā azēm-cit . . . daēuuāiš sarəm vīmruiē*  
*yaθā [anāiš] vīāmruūtā*  
 ‘and thus do I too renounce union with the old gods,  
 like (Zarathustra) used to renounce (union) [with them]’ (Y. 12.6).

#### 6.5.3.4 The far-deictic *auua-*

In addition to its local-temporal deixis (see on *ima-* and *aēta-*, above), this pronoun can refer to well-known facts in the other world. In Old Persian, it also serves as emphatic or anaphoric 3rd-person pronoun (see also section 6.4.1.1):

OAv. *vīduuā [auuqm] yā īm aṅhaṭ apēmā*  
 ‘knowing [yonder] (requital) that shall be the last (to reach?) him’ (Y. 44.19);

YAv. [*hāu*] . . . *huraoda jasāti*  
 ‘(then) [*she*] shall come, well-shaped’ (V. 19.30);

[*aom*] *ga’rīm yazamaide yim ušadqm ušidar’nəm*  
 ‘we sacrifice to [yonder] mountain: the ridge Crack of Dawn’ (Yt. 1.28).

OPers. *hauvlava-* is both fat-deictic and anaphoric, possibly with emphasis:

*utā pārsam utā mādam . . . [hauv] āyasatā*  
 ‘(it was) [*he*] (who) took both Persia and Media’ (DB 1.46–47);

*tayaīy paruvā xšāyaθiyā yātā āha*  
*[avaīšām] avā naiy astiy kartam yaθā manā . . . kartam*  
 ‘the former kings, for as long as they were –  
 [*they*] have not done as much as *I* have done’ (DB 4.50–52).

#### 6.5.4 Reflexive pronouns

Examples:

OAv. *yēṅg [x’ē] “ruuā [x’aē]-cā xraodaṭ daēnā*  
 ‘whom [their own] breath-soul and [their own] vision soul will make \*shudder’  
 (Y. 46.11);

YAv. [*x’ā*] *daēna nis’rinuiiāt acištāi aṅhe*  
 ‘may [his own] vision soul give him over to the worst existence!’ (V. 5.62);

*aoi nmānəm yim [x’aēpa’θim]*  
 ‘to [(my) own] house’ (Yt. 5.63);

OPers. [*uvaipašiyahayā*] *daršam xšayamna a<sup>h</sup>miy*  
 ‘I am firmly in command [of myself]’ (DNb 14–15);

*utā pārsam utā mādam . . . [uvāipašiyam] aku’tā*  
 ‘he made both Persia and Media [his own]’ (DB 1.46–47).

##### 6.5.4.1 Use of *tanū-* ‘body’ as ‘self’

In all three languages, *tanū-* ‘body’ is used in the sense of ‘own body, self’:

OAv. *auuaēnatā . . . āuuar<sup>3</sup>nā vīciθahiiā narēm narəm*  
*[x’axiiāi tanuiē]*  
 ‘observe . . . the \*preferences of discrimination (made) man-by-man  
 [for his own body]!’;

YAv. *auui [x’aēpa’θiis<sup>3</sup>] tanuuō*  
 ‘upon [(their) own bodies]’ (Yt. 10.23);

OPers. *dārayavauš haya manā pitā pasā [tanūm] mām maθištam akunauš*  
 ‘my father, Darius, made me the greatest after [(him)self]’ (XPf 30–32).



6.5.5 *Reciprocal expressions and 'other'*

Reciprocity is usually expressed by repeating *aniia-* 'one . . . (an-/the) other' (cf. Jamison 1997; see also section 4.6.10):

OAv. *ašā vā [aniiō d'nim] vūuəṅhatū*  
 '(travelling) through Order, let [one] of you \*illuminate/overcome [the other]!=[one another]!' (Y. 53.5);

YAv. *yaēšqm [aniiō aniehe] uruānəm aiβi.vāēna'ti*  
 'of whom [one] looks at the soul [of the other]' (Yt. 13.84);

OPers. *[aniya aniyam] naiy ja'tiy*  
 '[the one] does not kill [the other]' = 'they do not kill one another' (DSe 35–36);

*[aniyam] ušabārim akunavam [aniyahçiyā] asam frānayam*  
 '[the one = some] I mounted on camels, [for the other = for some] I brought a horse' (DB 1.85–87).

6.5.6 *Interrogative pronouns*

Examples:

OAv. *[ciš] ahī [kahiiā] ahī*  
 '[who] are you? [whose] are you?' (Y. 43.7);

YAv. *[kō] maṃ yazd'te . . . [kahmāi] tanuuō druuatātəm azəm baxšāni*  
 '[who] will sacrifice to me? [to whom] shall I give health of (his) body?' (Yt. 10.108).

6.5.7 *Indefinite pronouns*

Examples:

OAv. *aṭ huuō . . . [kas-cī] ašā hužēntuš*  
 'thus, he there . . . [whoever] by (his) Order (is) of good lineage' (Y. 49.5);

YAv. *[kqm-ci] vā hubao'ditəmanqm "ruuaranqm*  
 'or [whichever] of most fragrant plants' (V. 8.2);

*[ka]jhe ka]he] apayžā're*  
 'in [each and every] outlet' (Yt. 5.101–2);

*[kahe kahiiā-cī] druuatqm*  
 '[of each and everyone] of the ones possessed by the Lie' (Y. 61.4);

*pita puθras-ca . . . [kataras-ci]*  
 'father and son [each]' = 'both father and son' (Y. 9.5).

With relatives:

OAv. *tācā . . . ašāunē cōiš*  
*[yā] zī [cīcā] vahīštā*  
 'and **those** (things) you assigned to the sustainer of Order, namely, [whichever] are the best ones' (Y. 47.5);

*uštā ahmāi*

[*yahmāi*] *uštā* [*kahmāicī*] . . . *mazdā dāiiā* *ahurō*

‘wished-for (things are) in the wish **for him**,  
[to whomever] Mazdā Ahura shall give (them)’ (Y. 43.1).

Negated:

OAv. *aēšcəm aēnaḥqəm* [*naē-cī*] *vīduu* *aojōi*

‘of these sins I declare I know [none] (at all)’ (Y. 32.7);

[*mā ciš*] *a* *vē* . . . *gūštā*

‘but let [no one] among you keep listening to’ (Y. 31.18);

OP. [*naiy*] *āha martiya* . . . [*naiy*] *amāxam taumāyā* [*kaš-ci-y*] *haya* . . .

[*kaš-ci-y naiy*] *adāršnauš* [*ciš-ci-y*] *0a<sup>n</sup>stanaiy*

‘there was no man . . . nor anybody of our family, who . . .  
nobody dared say anything’ (DB 1.48–49, 53).

Without particle:

OAv. *kadā vaēdā yezi* [*cahiā*] *xšaiia0ā*

‘when shall I know whether you are in command [of anything/anybody]’ (Y. 48.9).

## 6.6 Uses of the numerals

The numerals ‘100’ and higher take the genitive plural of a following noun:

YAv. [*catagrō parəna*] *vīdāraiiōiš auui pa0qəm kataras-ci*

‘you should hold out [four feathers] toward each of the (four) roads’ (Yt. 14.44);

*nauuaitīm* [*upāzananqəm*] *upāzōi* *aspahē aštraia*

‘he shall administer ninety [strokes] with the horse-whip!’ (V. passim).

The nom.-acc. sing. of ordinals (in OPers. with *patiy*) is used in the meaning of ‘for the -th time’:

OAv. *nōi* [*d<sup>m</sup>bitīm*] . . . *ahūm mərəšūiāt*

‘not [a second time] should he destroy the existence’ (Y. 45.1);

YAv. [*pa<sup>r</sup>rīm/bitīm/0ritīm*] *x<sup>r</sup>arənō apanəmata*

‘[a first/second/third time] the Fortune turned away’ (Yt. 19.35–37);

OPers. [*patiy čitīyam/duvitīyam*] *hamiçiyā ha<sup>n</sup>gmatā*

‘the conspirators having gathered [for the third/second time]’ (DB 2.43, 57–58).

## 6.7 Uses of comparative and superlative

### 6.7.1 Comparative

Comparison (‘than’) is expressed by comparative + ablative (see section 6.4.6.2) or comparative + *ya0a* (see section 8.2.3.6).

6.7.1.1 Comparative + positive in contrasting pairs

The comparative is used together with the positive of another adjective to form a contrasting pair, in which the first member in the comparative is depicted as superior to the second member in the positive: ‘X’er and Y’ = ‘X and, on the other hand/in contrast, (the poorer) Y’ (Humbach 1991, I § 15.2.1):

OAv. *yaiiā [spaniiā] -comp. \*u’tī mrauuat yēm [aṅrəm] -pos.*  
 ‘of which two, [the life-giving one] shall tell (him),  
 whom (you know as) [the Evil one]’ (Y. 45.2);

OPers. *haya [tauvīyā] -comp. tayam [skauθim] -pos. naiy ja’tiy*  
 ‘[the mighty one] does not kill [the poor one]’ (DSe 37-44).

6.7.1.2 Comparative in compounds

The comparative is found in an elliptic type of compounds: ‘. . . -er than (those of) X’:

YAv. *bāzauua \*auruša aspō. [staoiiehīš]*  
 ‘arms, white (and) [thicker] (than those) of a horse’ (Yt. 5.7).

As the first member of a compound, a comparative may be replaced by the positive, but maintain its rection:

YAv. *[uyra].zaošā [tbišūaδbiiō] -abl.*  
 ‘(the fravashis) with [strong(er)] desires [than those hostile] (to us)’ (Yt. 13.31);

*auuā dāmaq . . . yā hānti [paōriiō].dāta [paōriiō].fraθbaršta*  
*ašnāat-ca apāat-ca*  
 ‘those creations that (were) those established [first], fashioned forth [first]  
 (= earlier) than the sky, the water . . .’ (Vr. 7.4) [cf. *para, parō* ‘before’ + abl., see section 6.4.6.4].

6.7.2 Superlative

The superlative is most commonly used to present something as possessing a quality in the highest degree, ‘the most A’, or to single out one thing/person from others of the same class: ‘A is the biggest of all A’s’ (see section 6.4.4.5).

The superlative is also used in contrast to an adjective in the positive or to depict something (in the superlative) as vastly superior to another thing (in the positive; Humbach 1991, I § 15.2.2):

OAv. *yā drəguuā -pos. acištā vərəziiō /*  
*ašəm maniuš [spəništō] -sup.*  
 ‘you, [who are possessed by the Lie], would perform the worst (words/actions);  
 [the most life-giving] spirit . . .’ (Y. 30.5);

*yā vā [kasōuš] -pos. aēnaghō ā [mazištəm] -sup. °iiamaitē būjim*  
 ‘or (someone) who for a [small] sin shall incur the [greatest] expiation’ (Y. 31.13).

## 7 SYNTAX III: THE VERB

The Iranian verb has the categories of tense and aspect, mood, and voice. Finite forms have the categories of number and person, while non-finite forms behave like nouns (infinitives) or adjectives (participles).

The negations, Av. *nōiŋ*, OAv. *naēdā*, YAv. *naēda*, *nauuu*, OPers. *naiy*, mainly negate statements and *mā* (*māda*) commands and exhortations.

### 7.1 Tenses

The main difference in syntax between Old Avestan, on the one hand, and Young Avestan and Old Persian, on the other, is in the use of the tenses, while that of the moods is largely the same.

The Old Avestan verbal system is based upon the opposition of the present (imperfective) aspect, which is indefinite (durative, repetitive), vs. the aorist (perfective) aspect, which is definite (punctual, ingressive, terminated); that of Young Avestan and Old Persian is based mainly upon the opposition present vs. past.

The common past narrative tense is the present injunctive (augment-less) in Young Avestan and the augmented imperfect in Old Persian.

In Avestan, an action can be characterised as definitely having taken place in the past(?) by the optional use of the augment. In Old Persian, the augment is an intrinsic part of past tenses.

The state reached after a past event is expressed in Avestan by the perfect in its old function of resultative-stative.

In Old Avestan, the aorist expresses, on the one hand, anteriority in relation to the present or preterite, on the other punctual or 'immediate', both incipient and concluding, action vs. ongoing or unfinished action, expressed by the present.

In both Young Avestan and Old Persian, repeated or habitual past action (cf. English 'he would go') can be expressed by the optative. It then takes the augment, regularly in Old Persian and occasionally in Young Avestan (see section 7.2.2.2).

Thus, all three Old Iranian languages possess the following basic tenses:

- *present*: 'he does, he is doing';
- *preterite*: 'he did, he was doing';
- *perfect*: 'he has (always, never) done' or 'he did/it was done/it happened and now is' (*present perfect*);
- *pluperfect* in the function of preterite of the *present perfect* 'he had done and now was,' etc.

The future is usually expressed by the subjunctive (in Old Avestan by the subjunctive of the present or aorist depending on the aspect), but also by the special future stem in *-hiia-l-šii-*.

#### 7.1.1 Present indicative

The present indicative is the tense used to describe events that are currently taking place, whether they always take place or only now. It is also the 'performative' tense (especially in the 1s and 1p), used, notably, in ritual contexts to describe the actions in the process of being performed by the speaker or someone referred to by the speaker.

It is used in main (declarative, interrogative) clauses and subordinate clauses of actions or situations that obtain in general (also eternal truths), but with focus on their current or incipient validity; actions or situations that obtain at the moment of utterance, e.g. during the performance of the ritual; and other actions or situations that are concurrently taking place:

OAv. *kē yā mā [uxšiiē'tī nər'fsa'tī] 0βaṭ*  
 'who (is he) through whom the moon [is (now)] first [waxing] then [waning]' (Y. 44.3);

*aē'biīō yōi "ruuātāiš drījō ašahiā gaē0ā [vīmər'ṅca'tē]*  
 '... to those who by (their) deals with the Lie [are (now) destroying] the living beings of Order' (Y. 31.1);

*ahiā [yāsā] nəmaṅhā . . . vaṅhəuš xratūm manaṅhō*  
 'in homage to him, I [am (here and now) asking] for the wisdom of good thought' (Y. 28.1);

YAv. *vasō.xša0rō [ahi] haoma . . .*  
*ər'žuxdəm [pər'sahi] vācim*  
 '[you are] in command at will, O Haoma . . .  
 [you are asking] a word correctly spoken' (Y. 9.25);

*apam napās' tā āpō . . . šōi0rō.baxtā [vī.baxša'ti]*  
 'Apam Napāt [distributes] those waters distributed by settlements' (Yt. 8.34);

*[nāismī] daēuuō* (for *daēuuī*)  
 'I (herewith, by my utterance) [blame/scorn] the old gods' (Y. 12.1);

*aiiaoždiia pascaēta bauua'nti*  
 'after that they become ritually impure' (V. 3.14);

OPers. *sakā tayaiy xaudām tigrām [bara'tiy]*  
 'the Scythians who wear a pointed hat' (DB 5.22);

*martiya taya patiy martiyam 0ātiy ava mām [naiy varnavataiy]*  
*yātā ubānām hadugām [āxšnauvaiy]*  
 'I [do not believe] what a man says against (another) man  
 until I [hear] (= have heard) the testimony of both (of them)' (DNb 21–24) [cf.  
 section 6.4.3.4];

*aīta adam yānam [jadiyāmiy] auramazdām*  
 'this I [am requesting] of Ahuramazdā (as) a request' (DPd 20–21).

#### 7.1.1.1 Av. present indicative with 'before' = past

OAv. *parā* 'before' and YAv. *pa"ruua-* 'former, earlier' sometimes transfer the action of the present indicative into the past:

OAv. *drījō āiiesē [hōiš.pi0ā] tamuō [parā]*  
 'in the \*harness of the Lie [you (plur.) \*very much fattened] (your) bodies [before = of old]' (Y. 53.6) (*hōiš.pi0ā*: intensive *hai-špī-* < *spī-* 'fatten?');

YAv. *yōi [pa"ruua] mi0rəm [družīnti]*  
 'who [betrayed] Miθra [before]' (Yt. 10.45).

7.1.1.2 Young Avestan, Old Persian present *asti* for imperfect

In both Young Avestan and Old Persian, *asti* is occasionally used instead of the (rare) imperfect:

YAv. *kauuaēm x<sup>v</sup>arənō . . . yazama<sup>d</sup>de . . .*  
*yaṭ [asti] ahurahe mazdā yaθa dāmaṇ daθaṭ*  
 ‘we sacrifice to the Fortune of the poets . . .  
 which [was] Ahura Mazda’s when he set in place the creations (Yt. 19.9–10);

OPers. *yaθā taya adam xšāyaθiya abavam*  
*[astiy] a<sup>t</sup>tar aitā dahayāva . . . ayauda*  
 ‘when I became king  
 there [were] among these lands (some that) were in turmoil’ (XPh 29–32).

## 7.1.1.3 Old Persian present for continuing state

In Old Persian, the present is found with adverbs denoting time in the past to express states that still obtain in the present:

*hacā paruviyata<sup>h</sup> āmātā [a<sup>h</sup>mahay]*  
 ‘from the beginning [we have been] distinguished’ (DB 1.7–8).

## 7.1.2 Present injunctive and imperfect

## 7.1.2.1 Present injunctive

In Old Avestan, the present injunctive is used for general (durative or iterative) actions or states typically taking place either in the divine or the human sphere, mostly without specific time reference (‘does’ or ‘would do, used to do’):

*mazdā [dadāṭ] ahurō hauruuatō amər<sup>3</sup>tātas-cā / būrōiš ā . . .*  
 ‘Ahura Mazda [(always) gives] out of (his) plenty of wholeness and immortality’  
 (Y. 31.21);

*adā tašā gōuš [pər<sup>3</sup>saṭ] ašəm*  
 ‘then the fashioner of the cow [will (usually) ask] (or: asked?) Order’ (Y. 29.2);

*tā [dəb<sup>3</sup>naotā] mašīm hujiiātōiš*  
 ‘thereby [you (plur.) deceive] mortal man of good living’ (Y. 32.5).

## 7.1.2.2 Narrative past

The common past narrative tense is the present injunctive (augment-less imperfect) in Young Avestan and the augmented imperfect in Old Persian. It also provides the background description for actions in the present injunctive. The Old Avestan texts contain too few examples of the augmented imperfect to give a precise idea of its use, but it may simply transpose descriptive and repetitive present indicative actions and states into the past. Evidence in Old Avestan for the use of the present injunctive as past narrative tense is uncertain:

OAv. *kadā [ajən] mūθrəm ahiiā madahiiā*  
 ‘when [did] the urine of his intoxication [(use to) smash] . . .?’ (Y. 48.10);

*0βōi [as] ārma'tiš*  
 'Humility [was] with you' (Y. 31.9);

YAv. *yō [as] vər<sup>3</sup>0rajqstəmō*  
 'who [was] the most obstruction-smashing' (Y. 9.15);

*ā'ī [mraoī] ahurō mazdā*  
 'then Ahura Mazdā [said]'.

In Old Persian, the (augmented) imperfect is a narrative tense referring to actions and events in the past, both successive actions and events and actions and events anterior to other actions and events in the past:

*iyam gaumāta haya maguš [a-durujiya] avaθā [a-0a'ha]*  
 'this (picture represents) Gaumāta the Magian; he lied (and) said thus' (DBb);

*yaθā ka<sup>m</sup>būjiya mudrāyam [a-šiyava] pasāva . . .*  
 'when Cambyses [had gone] to Egypt, then . . .' (DB 1.33);

*auramazdā-maiy upastām [a-bara] yātā ima xšačam [ham-a-dārayaiy]*  
 'A huramazdā [bore] me aid until [I (had) consolidated] this empire' (DB 1.24–26).

### 7.1.2.3 Negation and prohibition

The negated present injunctive expresses commands and exhortations to all persons, sometimes coordinated with the imperative:

- 1st person:

OPers. *hacā aniyānā [mā tarsam]*  
 '[let me not fear] another!' (DPe 20–21);

- 2nd person:

YAv. *[mā] dim [pər<sup>3</sup>sō] yim pərəsahi*  
 '[don't ask] him whom you are asking!' (H. 2.17);

OPers. *paθim tayām rāstām [mā av<sup>h</sup>arda]*  
 '[do not leave] the straight path!' (DNa 58–60).

- 3rd person:

OAv. *[mā] ciš aī vē drəguuatō maθraqs-cā [gūštā]*  
 'but [let no] one among you [keep listening] to the poems of the one possessed by the Lie!' (Y. 31.18);

*[mā] əuuīduuā a'pī [d<sup>3</sup>bāuuaiiaī]*  
 '[may no] one who does not know [keep deceiving] (us) hereafter!' (Y. 31.17);

YAv. *[mā] ciš [baraī] aēuuō yaī<sup>r</sup>ristəm*  
 '[let no] one [carry] alone what is dead' (V. 3.14).

## 7.1.3 Future in -Sjia-

The functions of the future are similar to those of the prospective subjunctive, indicating imminent future, intention, or obligation. In Old Avestan, the rare future is found in strophe-initial statements only:

*aṭ [frauuaxšiiā]*  
‘and so [I shall proclaim]’ (Y. 45.6);

YAv. *nōiṭ huškō huškāi [sraēšiiete]*  
‘dry (matter) [shall] not [be mixed] into dry (matter)’ (V. 8.34);

The future is often contrasted with the past and present:

YAv. *aēšqm uxdanqm . . . yāiš yauua fra-ca vaoce*  
*fra-ca mruie [fra]-ca [vaxšiiete]*  
‘of these utterances which (instr. for nom.) **have ever been uttered,**  
**are being uttered,** and [will be uttered]’ (Y. 19.10).

Here, Old Avestan uses the aorist subjunctive (see Y. 29.4 in section 6.3.3).

## 7.1.4 Aorist

## 7.1.4.1 Aorist indicative

The augmented aorist denotes the immediate, completed, past (Hoffmann 1967, 153–55). The few Old Avestan forms are used about divine utterances, ritual acts and oral tradition, in statements and in questions:

*ahurahiiā zī aṭ vō mazdā*  
*yasnəm-cā vahməm-cā vahištəm [a-mēhmadī]*  
‘for, thus, [we have thought] (= made up our minds about)  
the sacrifice and hymn (as) the best (thing) for you (all)’ (Y. 35.7);

*nū zī cašma’nī [vii-ā-dar’səm]*  
‘for [I] just now [caught sight] of it in (my) eye’ (Y. 45.8);

*aṭ tā maniiū pa’ruiiē*  
*yā yēmā x’afnā [a-sruuātəm]*  
‘thus, those two spirits/inspirations in the beginning,  
who [have been heard of] (as) “the twin sleeps” (= sleeping twin foetuses)’ (Y. 30.3).

## 7.1.4.2 Aorist injunctive

While the temporal reference of the Old Avestan present injunctive is relatively clear, that of the unaugmented aorist injunctive is more difficult to determine. The main problem is whether a given form refers to action already completed at the time of the ‘now’ or whether it is just starting. The aorist injunctive probably does not refer to an action that took place at a specific moment in the past, but, at most, to an action that took place at an unspecified time in the past, e.g. for the first time, ‘aorist of creation’.

It is often accompanied by present indicative or present injunctive or even periphrastic constructions with the present participle, which give the context in which the aorist injunctive took or has taken place.



7.1.4.2a *Aorist injunctive expressing anteriority*

The function of anteriority (to the main verb) is seen clearly in a few instances in subordinant clauses:

*aṭ 0βā mējḥī pa<sup>h</sup>ruuīm mazdā yazūm stōi . . .*

*vaṅhēuš p<sup>h</sup>tarēm manayhō*

*hīiaṭ 0βā [hēm] cašma'nī [°grabəm]*

‘thus, I (now have begun to) think-**aor.inj.** of you as being the first, O Mazda, . . . (yet) youthful, father of the good thought – since [I have (just now) grasped] -**aor.inj.** you in (my) eye’ (Y. 31.8);

*hīiaṭ mēzdam zaraθuštrō magauuabiiō [cōišt] parā*

*garō d<sup>h</sup>mānē ahurō mazdā jasaṭ pauruiō*

‘the fee which Zarathustra [had assigned]-**aor. inj.** before to the participants in the gift exchange, in the House of Song, Ahura Mazda (always) comes-**pres. inj.** (forward for/with it as) the first (in line)’ (Y. 51.15).

7.1.4.2b *Aorist injunctive expressing future*

There is one (apparent) instance of an aorist injunctive being accompanied by a future time reference (future perfect):

*yastā daēuuēṅg aparō . . . [tarē.mqst]*

‘(he) who, on account of that, in the future [shall have despised] the old gods’ (Y. 45.11);

7.1.4.2c *Contrasting aspects of present and aorist injunctive*

In Old Avestan, present injunctive and aorist injunctive forms are often contrasted, with clear aspectual difference:

*aiiā nōiṭ ərəš [višiiātā] daēuuā-cinā*

*hīiaṭ iš d<sup>h</sup>baomā . . . upā.jasaṭ*

*hīiaṭ vər<sup>h</sup>nātā acištəm manō*

‘especially the old gods [did] not (then) [discriminate]-**aor.inj.** correctly between these two, because deception kept coming over-**pres. inj.** them, so that they would prefer-**pres.inj.** the worst thought’ (Y. 30.6);

*aṭ-cā hōi [scaṅtū] . . . yasnqs-cā*

*. . . dāṅhō ər<sup>h</sup>zūš paθō /*

*yqm daēnaqm ahurō saošiiāntō dadāt*

‘and so [let them (now) start pursuing]-**aor. imp.** . . . the sacrifices (to him), (Mazdā), . . . (which are) the straight paths of the gift (awaiting) the vision-soul which Ahura (always) establishes-**pres. inj.** (as) that of the revitaliser’ (Y. 53.2).

7.1.4.2d *Mythical events*

The aorist injunctive is used to describe mythical events, as well as human actions in the past. This use of the aorist injunctive is found in cosmological contexts, often to denote the first occurrence of an act, later repeated in the sacrifice:

*kas-nā xʷəṅg strēm-cā [dā] aduuānəm*  
 ‘who, I wonder, (first) [established]-**aor.inj.** the road of the sun and of the stars?’  
 (Y. 44.3);

*yaθā tū ī ahura.mazdā [məṅghā]-cā*  
*[vaocas]-cā [dās]-cā [varəš]-cā yā vohū /*  
*aθā tōi dadʷmahī-pres. ind.*  
 ‘in the same way that you, O Ahura Mazda, (for the first time?) [thought] them  
 [spoke], [established], and [produced]-**aor.inj.** (those) which (are) good (thoughts,  
 etc.), in that way we are (here and now) establishing-**pres. ind.** them for you’ (Y. 39.4).

#### 7.1.4.3 Negated aorist injunctive to express prohibition

The aorist injunctive is used with the prohibitive negation *mā* to express ‘do not (start)!’, often coordinated with the imperative:

OAv. *huxšaθrā xšəntəm*  
*[mā] n ē dušʷ.xšaθrā [xšəntā]*  
 ‘let (now)] those of good command command-**aor. imp.** (us)!  
 [let not] those of bad command [(now) command]-**aor. inj.** us!’ (Y. 48.5).

#### 7.1.4.4 Young Avestan and Old Persian aorist

The Young Avestan and Old Persian examples of aorist indicative and aorist injunctive may be imitations of Old Avestan:

YAv. *ā] [maqsta] yimō*  
 ‘then Yima [thought]-**aor.inj.**’ (V. 2.31);

OPers. *baga vazarka auramazdā haya imām būmim [a-dā]*  
*haya avam asmānam [a-dā]*  
 ‘Ahuramazdā is a great god, (he) who [set in place]-**aor.ind.** this earth,  
 who [set in place] yonder heaven’ (DE 1–11);

*imā dahayāva tayā adam [a-daršiy]-aor.inj.*  
 ‘these lands that I [got hold of]’ (DPe 5–10).

#### 7.1.5 Perfect

The function of the perfect in the oldest Indo-European languages was to express the state obtaining from a past action or event. In Avestan, this function is found with verbs of perception and verbs of state, as well as of transitive verbs.

The perfect has a few subjunctive forms, as well as a pluperfect. The optative forms are commonly used in conditions contrary to fact (see sections 8.2.2.6, 8.2.4.2c).

##### 7.1.5.1 Perfects without present

The two perfects *ād-* ‘say’ (OInd. *āh-*) and *vaēd-* have no corresponding presents:

OAv. *a] tōi višpəṅg aṅgrəṅg ašāunō [ādarʷ]*  
 ‘thus, [they say/claim] (that) all the evil ones (are) followers of Order’ (Y. 43.15);

YAv. *naēciš iða zaraθuštra sūš*  
*yaθā hīm [ādar<sup>o</sup>] mašiiāka*  
 ‘there is no “vitalisation” here, O Zarathustra,  
 (such) as humans [say] it (= refer to it)’ (FrD. 3, see Hoffmann 1968);

*[vaēθā]-ca taṭ \*cikaēθa-ca*  
*āi ašāum zaraθuštra mana xraθβā-ca cisti-ca*  
 ‘I [know] and am aware of that,  
 O Orderly Zarathustra, by my wisdom and insight’ (Yt. 1.26).

#### 7.1.5.2 Perfect expressing resulting state

The perfect indicative is used to indicate the result of a preceding action or state and is often used in ‘ever/never’ statements.

Perfect of intransitive and medio-passive verbs:

OAv. *yōi . . . [nōiṭ] frasaiiā vaṅhēuš [cāxnar<sup>3</sup> (<kan-)] managhō*  
 ‘those who . . . [have never taken pleasure] in the questioning of (their) good  
 thought?’ (Y. 44.13);

YAv. *\*frēna āṅhqm nasunqm*  
*yā pa’ti āiia z<sup>o</sup>mā [rīriθar<sup>o</sup> (<raiθ-)]*  
 ‘on account of the great quantity of the corpses  
 that [have (ever) died (and now lie dead) all over this earth’ (V. 5.4).

Perfect of transitive verbs:

OAv. *ā mā aēš<sup>o</sup>mō hazas-cā rəmō [hišāiā (<hai-)]*  
 ‘wrath and violence, restraint [have bound] me (and now keep me bound)’ (Y. 29.1);

YAv. *yō nō [daḍa] yō [tataša] yō [tuθruie]*  
 ‘(he) who [has made] us, who [has fashioned] us, who [has \*compiled] us’ (Y. 1.1);

*yō [nōiṭ] pascaēta [hušx<sup>o</sup>afa (for \*hu-šūafa < huap)]*  
*yaṭ maniiū dāmqn daḍiṭəm*  
 ‘(Sraoša . . .) who [has never slept]  
 (ever) since the two spirits would set in place (their) creations’ (Y. 57.17).

#### 7.1.5.4 The past perfect/pluperfect

OAv. *taēcīṭ . . . yōi drəguwatō mazbīš [ci-kōit-ər<sup>o</sup>š (<kait-)]*  
 ‘those too . . . who [had (always) distinguished] those possessed by the Lie with great  
 (brilliant gifts?)’ (Y. 32.11) [see Jasanoff 1997];

YAv. *niš taṭ pa’ti druxš nāšā’te yaḍāṭ aβiciṭ [ja-ym-aṭ (<gam-)]*  
 ‘the lie will be dispelled and destroyed there to the very place whence [it had come]’  
 (Yt. 19.12).

#### 7.1.6 The verb ‘to be’ and noun clauses

Both the subject and predicate of ‘to be’ are typically in the nominative:

YAv. *mošu taṭ [ās] nōiṭ dar"γəm*  
 'quickly that [was], not long' (Yt. 5.65);

Occasionally, adverbs can be used as predicates with 'to be' (see Hoffmann 1952):

OPers. *kāra pārsa . . . [kamnam āha]*  
 'the Persian army . . . [was] (just) a few' (men)' (DB 2.18–19).

### 7.1.6.1 The copula

A 3rd singular copula is often gapped, sometimes also the 3rd plural or infinitive, occasionally other persons when the subject is an expressed pronoun:

OAv. *huuō zī drəguuā*  
 'for that one (is) possessed by the Lie' (Y. 46.6);

*kaṭ vā xšaθrəm*  
 'what (is) your command?' (Y. 34.5);

YAv. *kaiia atjḥā ratauuō*  
 'which (are) its models?' (Y. 19.18);

OPers. *tayaiy paruvam xšāyadīyā āha*  
 'who had been kings before' (DB 1.9–10).

### 7.1.6.2 The existential verb

This present indicative *asti* usually expresses existence, but is also used in contexts where it could not easily be omitted or is emphatic. In Young Avestan, it is found in the following instances: fronted, in relative-subordinate and interrogative clauses, in some expressions with superlatives, after fronted demonstrative pronoun or adverb (many of these after *zī*), and occasionally elsewhere. The use of the 3p *hənti* is similar.

### 7.1.6.3 Possession

The existential verb can take a genitive to express possession:

OAv. *ciš ahī [kahiiā] ahī*  
 'Who are you? [Whose] are you?' (Y. 43.7);

YAv. *[yejhe] vaēm mahi*  
 '[whose] we are' = 'to whom we belong' (Vr. 11.13);

OP. *manā auramazdā [COP.] auramazdāha adam [COP.]*  
 'mine (is) Ahuramazdā, Ahuramazdā's (am) I' (DSk);

*[dārayavahauš] puçā aniyai-ciy [āha"tā]*  
 '[Darius's were] other sons, too' = 'Darius had other sons, too' (XPf 28–29).

## 7.2 Moods

The Old Iranian moods were used much as in other ancient Indo-European languages. The principal innovation was the use of the optative to denote habitual past action in

Young Avestan and Old Persian. In both Young Avestan and Old Persian, ‘irrealis’ is expressed by the perfect optative.

### 7.2.1 Subjunctive present and aorist

The subjunctive is the tense used to refer to the future, and so denotes intention, prospective action and exhortation. In general, the deliberative subjunctive is used in questions and in a variety of subordinate clauses. The aorist subjunctive has the same functions as the present subjunctive, but with the difference in aspect. The negations are *nōit* and *mā* (negative instructions). On the use of the subjunctive in subordinate clauses, see section 8.2.2.1 (relative clauses) and section 8.2.3 (adverbial clauses).

#### 7.2.1.1 The subjunctive in main clauses

##### 7.2.1.1a 1st person

The 1st person subjunctive usually means ‘I/we want to do, may I/we do, let me/us do’, indicating intention or impending action:

present:

OAv. *yauuōi višpāi fraēštāṅhō [āṅhāmā]*  
 ‘for an entire lifespan [let us be] (your) dearest friends!’ (Y. 49.8).

aorist:

*taṅ nē nūcīṅ [var<sup>3</sup>šānē]*  
 ‘that [I am about to produce] for us’ (Y. 51.1);

*ašā kaṅ 0βā [dar<sup>3</sup>sānī]*  
 ‘[shall I see] you through Order, I wonder?’ (Y. 28.5);

YAv.

present:

*azəm tē gaē0ā [frāδaiieni] azəm tē gaē0ā [var<sup>3</sup>δaiieni]*  
 ‘I [shall further] your herds, I [shall make] your herds [grow]’ (V. 2.5);

aorist:

*aša sraēšta [dar<sup>3</sup>sāma] 0βā haxma*  
 ‘[shall we (now get to) see] company with you, O haoma, through most beautiful Order?’ (Y. 60.12).

OPers.

present:

*šiyāta [ahaniy] jīva utā maṛta artāvā [ahaniy]*  
 ‘[let me] be happy (while) alive and blessed (after I am) dead!’ (XPh 47–48).

##### 7.2.1.1b 2nd and 3rd persons

The 2nd and 3rd person subjunctive refer to the future in various modes:

present:

OAv. *hā nō [aṇha]*  
 ‘she [shall be = belong] to us’ (Y. 32.2);

*kadā yauuā huuō [aṇha]*  
 ‘when [shall he ever be] (there)?’ (Y. 29.9);

YAv. *auuaθa tē [aṇha] vaṇhō*  
 ‘thus for you [shall be] the better (reward)’ (V. 18.7);

aorist:

OAv. *kōi . . . rāmam [dāntē < da’antai]*  
*kēng ā vaṇhōuš [jima < jam- / gam-] manahō cistiš*  
 ‘who [will obtain] peace?  
 to whom [will come] the insight of good thought?’ (Y. 48.11);

YAv. [*bun (< bu’an)*] *gaēθā amaršāntiš*  
 ‘the creatures [shall become] indestructible’ (Yt. 19.12);

*mā ciš mē āṇham zaoθranam [fraṇ<sup>v</sup>harā] yō nōit . . .*  
 ‘[let] **not** anyone [consume] these libations of mine who is not . . .’ (Yt. 10.122).

### 7.2.2 Optative present and aorist

The optative is the mood of the imaginary and thus mainly expresses wishes, prescriptions, imaginary comparisons or examples, and unreal conditions and comparisons. The optative of the aorist is used like that of the present, but with the difference in aspect. For the use of the optative perfect, see 8.2.2.4, 8.2.4.2c.

On the use of the optative in subordinate clauses, see sections 8.2.1 (*that*-clauses), 8.2.2.1 (relative clauses) and 8.2.3 (adverbial clauses).

#### 7.2.2.1 Optative in main clauses

The optative in main clauses expresses wishes and exhortations. These are distinguished when negated: *nōit* negates wishes and *mā* exhortations. In questions, the optative expresses ability, potentiality, and permission:

present:

OAv. *aθā tū nō gaiias-cā astəntās-cā [xiiā]*  
 ‘and so [may you be] our life and boniness!’ (Y. 41.3);

*nōit d<sup>ai</sup> bitīm duš.sastiš ahūm [mər<sup>u</sup>šiiā]*  
 ‘[may] the one of bad announcing **not** [destroy] a second time (this) existence!’  
 (Y. 45.1).

OAv. *kaθā mazdā rāniō.skər<sup>ti</sup>tīm gəm [iš<sup>u</sup>sōit]*  
 ‘how [might] he, O Mazdā, [try to obtain] (by prayer?) a joy-bringing cow?’  
 (Y. 50.2);

YAv. *vasō.xšaθrō [hiiā] ašauua*  
 ‘[may] the Orderly [have] command at will!’ (Y. 8.6);

*mā-ca pascaēta mazdaiiasna tqm zqm [kāraiēn]* (for *-aiiāēn*) *mā āpō [hər<sup>3</sup>zaiiēn]*  
 ‘afterward the Mazdayasnians [shall **not** plough] that earth **nor** [release] water (upon it)’ (V. 6.2);

OPers. *auramazdām [yadaišā]*  
 ‘[you should sacrifice] to Ahuramazdā!’ (XPh 50–51);

*daivā mā [yadiyaiša]*  
 ‘the *daivas* [shall **not** be sacrificed to]!’ (XPh 38–39);

aorist:

OAv. *“ruuāzištō huuō nā . . . [pa<sup>4</sup>tī.jamiā]*  
 ‘(you) there, who gladden (us) the most, [may you] \*in return [come] to us’  
 (Y. 36.2);

*kaθā ašāi drujēm [diiqm] zastaiiō*  
 ‘how [might I deliver] the Lie into the hands of Order?’ (Y. 44.14);

YAv. *vasas-ca tū . . . [xšāēša] hauuanqm dāmanqm*  
 ‘and at will [may] you [rule over] your own creations’ (Y. 8.5);

*[buiama] tē šōiθrō.pānō*  
*mā [buiama] šōiθrō.‘ricō*  
 ‘[let us be] for you those who stay in the settlements!  
 [let us **not** be] those who leave the settlements!’ (Yt. 10.75);

OPers. *auramazdā-taiy ja<sup>4</sup>tā [biyā<sup>4</sup>]*  
*utā-taiy taumā mā [biyā<sup>4</sup>]*  
 ‘[may] Ahuramazdā [be] your striker (= strike you),  
 and [may] there **not** [be] family to you (= may you have no family)!’ (DB 4.55–59).

### 7.2.2.2 Optative of past action in Young Avestan and Old Persian

The optative is used in Young Avestan (with or without augment) and Old Persian to express habitual or repeated action in the past (see Hoffmann 1976: 605–19):

YAv. *zaraθuštrō ahunəm va‘rim [frasrāuuaiiōi<sup>4</sup>] . . .*  
*āpō va<sup>4</sup>hiš [frāiiazaēta] . . .*  
*daēnaqm māzdaiiasnim [fraor<sup>3</sup>naēta]*  
 ‘Zarathustra [would (= used to) recite] the Ahuna Vairiia . . .  
 He [would sacrifice] to the good waters . . .  
 He [would choose] the vision-soul of those who sacrifice to Ahura Mazda’  
 (V. 19.2);

*yō bāda . . . [a-uuarōi<sup>4</sup>] vācim (<a-barait)*  
 ‘who at times [would lift up] his voice’ (Yt. 10.73);

OPers. *yaθā-šām hacā-ma aθahya avaθā [a-kunavaya<sup>4</sup>tā]* (thematic optative)  
 ‘as was said to them by me, thus they would do’ (DB 1.17–24);

*kāram vasiy [avājaniyā<sup>4</sup>] (<ava-a-)*  
 ‘he [would kill] the people in large numbers’ (DB 1.50–53).

## 7.2.3 Imperative

The imperative is used only in positive statements to express a command or an exhortation. The person the command or exhortation is addressed to is frequently in the vocative. In Old Avestan, a distinction is made between the present imperative: ‘keep doing!’ and aorist imperative: ‘stop/start doing!’.

Negative commands or wishes are expressed with the injunctive (see section 7.1.2.1) and the optative (see section 7.2.2.1).

aorist:

OAv. *vohū [ga'dī] manayhā*  
*[dā'dī] ašā dā (<da'ah) dar'gāiū*  
 ‘[come (now)] with good thought!  
 [give (now)] with Order the gift of a long lifespan!’ (Y. 28.6);

present:

OAv. *ā īt [°uuāēnā] ahurā*  
 ‘[keep looking] hither at it, O Ahura!’ (Y. 46.2);

*dužuar'snayhō . . . [hēntū] . . . [xraosəntəm upā] . . .*  
*[īratū] īš duuafšō . . . mošucā [astū]*  
 ‘[let them be] (men) of bad virility! [let them be \*howled upon]! . . .  
 [let] \*torment [huddle] them off, and [let it be] soon!’ (Y. 53.8);

YAv. *[apa] druxš [nase] (<nasiia)*  
*[apa] druxš [duwara] [apa] druxš [vīnase]*  
 ‘[disappear], O Lie!  
 [run away], O Lie! [lose yourself], O Lie!’ (V. 8.21);

*[x'arata] narō aētəm miiazdəm*  
 ‘[eat], O men, this *myazda*!’ (Y. 8.2);

*x'ar'0anaqm hē [\*barəntqm]*  
 ‘[let] (some) of the (best) foods [be brought] to him!’ (H. 2.18);

*mā hē auui pādəm [auua.hišta]*  
*mā gātūm [nīpa'diiaṅ'ha]*  
 ‘[do not direct] (your) foot in her direction!  
 [do not lie down] on (her) bed!’ (Yt. 17.57);

*mā cim gər'zānā [pār-iiāntu] haca ahmāṭ nmānāṭ*  
 ‘[let them not leave] this house complaining about anybody’ (Yt. 13.157);

OPers. *[para-idiy/para-itā] avam kāram [jadiy/jatā]*  
 ‘go forth! crush that army!’ (2s/2p imp.) (DB 2.20–21, 3.14–15);

*ava-taiy auramazdā<sup>h</sup>ucāram [kunautuv] . . .*  
*ava-taiy auramazdā [nika'tuv]*  
 ‘[let] Ahuramazdā [make] that easy for you! . . .  
 [let] Ahuramazdā [destroy] that for you!’ (DB 4.76, 79–80).



### 7.3 Middle, passive, causative

#### 7.3.1 Middle

The middle of transitive verbs most often has passive meaning: YAv. *aza-*, act. ‘leads, takes (away)’, mid.: ‘is led, taken away’; *vaēna-* act. ‘sees’ vs. mid. ‘is seen’, etc.).

More rarely, the middle denotes that the action is being performed in the interest of the subject (e.g. *paca-*, act. ‘cook (for someone else)’, mid.: ‘cook for oneself’; *var<sup>o</sup>ḍaiia-* act.: ‘increase (trans.), enlarge’, mid.: ‘increase (intrans.), grow’.

Note the intrans. *hišta-*, act. ‘go and stand’, mid. ‘stand, be standing’.

Middle with passive function:

OAv. *aṭ tā maniiū pa<sup>r</sup>ruiiē*  
*yā yēmā x<sup>r</sup>afnā [asruuātəm]*  
 ‘thus, those two spirits/inspirations in the beginning,  
 which [have been heard of (aor. du. 3p)] (as) “the twin sleeps”’ (Y. 30.3);

YAv. *imqm tanum yā mē [vaēna<sup>t</sup>te] huraoda*  
 ‘this body, which [is seen] to me (to be) beautiful’ (Y. 11.10);

*[vər<sup>o</sup>ziiatqm]-ca iḍa vohu vāstriia*  
 ‘and [let] good pastures [be produced]-**pres. imp. 3s** here!’ (Vr. 15.1) [cf. section 5.3.3];

OPers. *ima frašam taya [vainataiy]*  
 ‘this perfection that [is seen]’ (DNb 1–2);

middle with reflexive, etc., function:

YAv. *aīβi vastra [yāḡhaiiaḡ<sup>h</sup>ha] frā zasta [snaiiaḡ<sup>h</sup>ha]*  
 ‘[put on your (sing.)] clothes! [wash your (sing.)] hands!’ (V. 18.19);

*zqm caxrəm [kər<sup>o</sup>nauuāne]*  
 ‘[I shall make] the earth [my] wheel’ (Yt. 19.43);

*ā<sup>t</sup> azəm tanūm [aguze]*  
 ‘then [I hid]-**aor. 1s mid.** [my] body’ (Yt. 17.55);

OPers. *avaθā xšačam [agarbāyatā]*  
 ‘thus [he took] the royal command [for himself]’ (DB 1.42–43).

#### 7.3.2 Passive

The passive, including passive middle forms, passives in *-iia-*, and 3s aor. in *-i*, is almost exclusively used when the sentence has no agent or the agent of the sentence is not expressed:

YAv. *yaθa anie yazatāḡhō [yaziḡte]*  
 ‘the way (the) other deities [are sacrificed to]’ (Yt. 8.11);

*kahe nō iḍa nqma [āy<sup>r</sup>riiā<sup>t</sup>]*  
 ‘whose name among us [will be welcomed] here in song?’ (Yt. 13.50);

OPers. *vayam haxāmanišiyā [Oahayāmahay]*  
 ‘we [are called] Achaemenids’ (DB 1.7);

*yakā hacā ga'dārā [ābariya]* (or: *a-bariya*)  
 'the sisso wood [was brought (or: carried)] from Gandhara and Carmania'  
 (DSf 34–35).

3s passive in *-i*:

OAv. *vahištā ištiš [srāuuī] zaraθuštrahē / spitāmahiī*  
 'the best \*ritual [has been heard of] (= become renowned) (as that) of Zarathustra / Spitama' (Y. 53.1);

YAv. *yaṭ turō jāni fraṅrase*  
 'when the Turian Frangrasiian was struck (down)' (Yt. 19.93).

### 7.3.2.1 Passive with agent

Very occasionally, passives are construed with agents (see also section 7.4.2.2 on the past participle).

OAv. passive with agent in the instrumental or with preposition *hacā*:

*yā zī [vāuuər<sup>3</sup>zōi . . . daēuuāiš-cā mašiiāiš-cā]*  
 'yes, those that [have been produced . . . by old gods and men]' (Y. 29.4);

*yā išudō [dadəntē] dāθranəm [hacā ašāunō] /*  
 'the \*dues in gifts that [shall be given] [on the part of (= by?) the sustainer of Order]'  
 (Y. 31.14).

In Old Persian, the agent is expressed by (one repeated example of each) the genitive-dative, by the preposition *hacā*, or (possibly) by the postposition *rādiy* (see Skjærvø 1985: 215):

*utā-[šām] auramazdā naiy [ayadiya]*  
 'and Ahuramazdā [was not sacrificed to by them]' (DB 5.15–16);

*taya-šām [hacā-ma aθahiya] ava akunava"*  
 'what [was announced] to them [from (= by) me]; that they did' (XPh 17–18), cf.  
 \**taya-šām adam aθaham ava akunava"*  
 'what I said to them, that they did' (DNa 36–37);

*nai-mā kāmā taya skauθiš [tunuva"tahyā rādiy miθa kariyaiš]*  
 'it is not my desire that a weak (man) [should be done wrong on account of/by a mighty (one)]' (DNb 8–9).

### 7.3.2.2 Old Persian alternatives to passive with agent

In Old Persian, passive with agent is avoided by using impersonal 3rd person plural constructions (cf. Middle Persian, Ch. 4, section 4.3.5.3):

OPers. *utā ciça"taxmam [agθr:bāya" ānaya]" abiy mām*  
 'and [they seized] Ciçantaxma (and) [brought] him to me' (DB 2.87–88), cf.  
*hauv āçina basta [ānayatā] abiy mām*  
 'that Āçina [was brought] bound to me' (DB 1.82–83).

Alternatively, the agent can be circumscribed:

*taya ištiš [ajaniya] kāra haya bābiruviya hauv akunauš*  
 ‘that the brick [was pounded] (into shape): the Babylonian contingent, it did (it)’  
 (DSf 29–30).

#### 7.4 Participles

Participles are construed as adjectives, usually attributive or in apposition, sometimes as predicates.

##### 7.4.1 Present, future, aorist, and perfect participles

The present and aorist participles differ only in aspect.

##### 7.4.1.1 Present participles

OAv. *yā vā [xšaiiqs] a-dqs drītā [aiiaṅtəm] . . . vīcīrō [hqs]*  
 ‘or (he) who (because) [being in command], (by) having placed (him) there (in his home)  
 would keep (someone) [coming] to (him) . . . [being] discriminating . . .’ (Y. 46.5);

*fraēšiiāmahī . . .*  
*[sʰrunuuatas]-cā [a-sʰrunuuatas]-cā*  
*[xšaiiaṅtas]-cā [a-xšaiiaṅtas]-cā*  
 ‘we send (our \*presentations) forth,  
 both toward [those who listen] and toward [those who do not listen],  
 toward [those being in command] and toward [those not being in command]’  
 (Y. 35.4);

YAv. *ātārəm; . . . yazamaʹde taxməm [həṅtəm] raθaēštārəm*  
 ‘we sacrifice to the fire, [being] a firm charioteer’ (Y. 62.8);

OPers. *X māhayā [jiyamnam] patiy*  
 ‘of the month of X at [the waning] (= on the last day)’ (DB 2.62).

The present participles can be used with ‘to be(come)’ (see also section 8.2.4.2e):

OAv. *aṭ . . . ahuuā . . . [frīnəmnā] ahurāi ā*  
 ‘thus, **we two were** there [presenting ourselves as guest-friends] to the Ahura’  
 (Y. 29.5);

YAv. *nōiṭ dim yauua azəm . . . bitim vācim [paiti.pərʰsəmnō] bauua*  
 ‘**I shall** never **be** [asking] him another word’ (V. 18.29);

OPers. *manahā uvaipašiyahayā dəršam [xšayamna] aʹmiy*  
 ‘by (my) mind **I am** strongly [controlling] myself’ (DNb 14–15).

In Young Avestan, present participles in apposition with the subject are used with *manīia-*, *sədaīia-*:

*nmānəm hō manīiaēta [para.daθō]*  
 ‘he may think (of himself) [(as) having given] a house’ (V. 18.28);

*ā dim vātō [upa.vāuuō] saḍaiē'ti*  
 'then a wind seems (to be) [blowing toward] him' (H. 2.7).

#### 7.4.1.2 Other participles

Aorist:

OAv. *acištā [dantō]*  
 '(even) [giving] what are the worst (things)' (Y. 32.4);

YAv. *fraša haṃ.rāzaiata ātarš . . . u'ti auuaθa [maṃhānō]*  
 'he stretched himself forward, the fire, (suddenly) [thinking] as follows' (Yt. 19.47);

future:

YAv. *haomanam-ca [har<sup>3</sup>šūiamnanam] yōi har<sup>3</sup>šūieṃte*  
 'and of the haoma (plants) [being about to be filtered], which are being filtered'  
 (Vr. 12.1);

perfect:

OAv. *[vīduuā] [vīdušē] mraotū*  
*mā [ə-uuīduuā] a'pī d<sup>3</sup>bāuuaiiaṭ*  
 'let him [who knows] say [to the one who knows]!  
 may no one [who does not know] keep deceiving (us) hereafter!' (Y. 31.17);

*yehiiā "ruuā xraodaitī . . . ašahiā [naṣuuā] (<na-ns-) paθō*  
 'whose soul will \*shudder, [having lost] the paths of Order' (Y. 51.13);

*yas-tē . . . zbaiiā . . . [apānō] (<āp-) dar<sup>3</sup>gō.jiiā'tim*  
 '(I), who shall be invoking you . . . [having obtained] long life' (Y. 33.5);

YAv. *vispaē<sup>3</sup>biiō haca ar<sup>3</sup>zaē<sup>3</sup>biiō [vauuanuuā] pa'ti jasa'ti*  
 'he returns, [having won], from all battles' (Y. 57.11–12);

*aṃhe haxaiiō frāieṃte . . . naēda.ciṭ \*miθō [vaox<sup>3</sup>āṃhō] (<uak-luac-)*  
 'his companions will go forth, [having] never [said] anything wrong' (Yt. 19.95);

*šātəm daθā'ti "ruuānəm ašaonō [rīriθānahe] (<raiθ-)*  
 'he makes happy the soul of the Orderly one [who has died]' (P. 23);

*narəm ašauuanəm [daḍrānəm] (<dar-) humatəmca . . .*  
 'the Orderly man, [who has held up] his well-thought (thought) and . . .' (Vr. 2.5);

perfect participle contrasting with the present and past participles:

OAv. . . . *hu-uar<sup>3</sup>štanam . . . vər<sup>3</sup>ziiamnanam- cā vāuuər<sup>3</sup>zanam-cā*  
 'of (deeds) well done, both those being performed and [those having been performed]' (Y. 35.2).

#### 7.4.2 Past participles in -ta-

The past participle in *-ta-* is commonly used in Young Avestan as apposition, in which case it refers to an action that was completed before the action or state indicated by the

main verb of the clause or by present participles. Also when used as an adjective, it sometimes retains this temporal function:

YAv. [*fra-stər<sup>3</sup>tā*] *pā'ti bar<sup>3</sup>smən*  
 [*uz-dātā*] *pā'ti haomā*  
*raociṇtā* *pā'ti ā0ra*  
*srāuuaiiamnā* *pā'ti ahunā* *va'riiā*  
 'beside the barsom [spread out],  
 beside the haoma [set up],  
 beside the blazing fire,  
 beside the Ahuna Vairiia being recited' (Yt. 10.91, Āfr. 4.5);

*auua* . . . *hanjamanəm* . . . *bar<sup>3</sup>šnuuō auua* *jhe ašnō* [*γ<sup>3</sup>matəm*]  
 . . . *yazamaide*  
 'to yonder gathering [having come (together)] upon the height of yonder sky  
 . . . we sacrifice' (G. 2.8);

OPers. *duvarayā-maiy* [*basta*] *adāriya*  
 'he was held [bound] at my gate' (DB 2.75, 89–90);

*hamiçiyā* [*ha<sup>3</sup>-gmatā*] [*para-itā*] . . .  
*hamaranam akunava*  
 'the conspirators, [having come together] and [gone off] . . .  
 fought the battle' (DB 2.37–39).

#### 7.4.2.1 Medial-reflexive function of the participle in *-ta-*

The past participle sometimes has medial-reflexive function and can take a direct (inner) object:

YAv. [*ā-stūtas*]-*cā* [*fra-uuar<sup>3</sup>tas*]-*cā*  
*āstuiē humatəm manō*  
 '[having assigned myself by my praise] and [having made my choice]  
 (having spoken the *āstuiē* and the *frauuarānē*)  
 I assign myself by my praise to well-thought thought' (Y. 12.8) [*ā-stau-* and  
*fra-uuar-*, both middle];

*upa. taca* . . . *ao0ra* [*paiti.šmuxta*]  
 'she came running, [shod] in shoes' (Yt. 5.64).

A past participle is frequently combined with a verb from the same root, see section 10.5 *Figura etymologica*.

#### 7.4.2.2 Past participle with copula

In Young Avestan, the past participles are occasionally used with the copula and sometimes with a personal pronoun (rarely a noun) in the genitive indicating the agent:

YAv. *kaða nō iða ašāum* [*agatō* (<*ā-gam-*)]  
*a'0iiajaḡhəm ahum ā*  
 'how [have you come], O Orderly one, to us,  
 to (this) existence without danger?' (V. 19.31);

*cuuauṭəm zruuānəm maniauuu stiš [dāta as]*  
 ‘for how long [had] the existence in the world of thought [been established]?’  
 (FrV. 2.19);

*mānāiēn ahe yaθa nā satəm-ca . . . paršanaqm [ni-jatəm hiiā]*  
 ‘just as if a hundred and . . . ears of grain [were to be (lying) smashed down]’  
 (Yt. 13.71);

with agent:

YAv. *yaṭ [mē] auuuuuṭ daēuuaiiasnanqm [ni-jatəm]*  
*yaθa sārəm-a varsanaqm barāmi*  
 ‘that [by me is smashed down = I have smashed down]  
 as many sacrificers to the old gods as I carry hairs on the head’ (Yt. 5.77);

*yezica [hē] anīia aya šīiaoθna [fra-uuaršta]*  
*pa’tita hē ciθa*  
 ‘if [for/by him are performed = he has performed] other evil deeds,  
 (then) the penalty for it (is) absolved’ (V. 3.21);

agent with attributive past participle:

*yōi ka’nina (for ka’ninō) [an-upaēta (<upa-i-) mašiiānaqm]*  
 ‘the girls [not yet approached by men]’ (Yt. 17.55).

### 7.4.3 The Old Persian perfect

In Old Persian, the old perfect indicative appears to have been lost and been replaced by constructions of past participle and copula with agents. This new perfect, like the old perfect, expresses the result seen in the present of a past action or event. It is often used to ‘sum up’ past events told in the imperfect (see Lazard 1976: 184–86, Skjærvø 1985).

There are forms of both transitive and intransitive verbs. As the past participle of transitive verbs has a passive meaning (‘done, killed’), the perfect construction in these instances is formally passive.

There is no *active* perfect construction corresponding to the *passive* one, so the construction corresponds to both active and passive constructions in the present and imperfect.

#### 7.4.3.1 Without agent

When the past participle is from an intransitive verb, the perfect corresponds to an active imperfect; when it is from a transitive verb and the agent is not expressed, it corresponds to a passive imperfect:

intransitive verb:

*pārsahaṣyā martiyahaṣyā dūrai y arštiš [parā-gmatā]*  
 ‘the Persian man’s spear has gone far away’ (DNa 43–45);

transitive verb:

*ava aḥayāyā dipiyā naiy [ni-pištam]*  
 ‘that [has] not [been written (is not written)] in this inscription’ (DB 4.47);

*paruv frašam [fra-mātam] paruv frašam [karta]*  
 ‘much perfect work [had been ordered], much [has been made]’ (DSf 56–57);

*aniyaš-ciy vasiy [astiy kartam]*  
 ‘much else too [has been done]’ (DB 4. 46–47);

pluperfect:

*xšačam taya . . . [parā-bartam āha] ava adam patipadam akunavam*  
 ‘I redressed the command that [had been taken away]’ (DB 1.61–62).

#### 7.4.3.2 With agent

If an agent (noun or pronoun) is expressed, it is in the genitive-dative, and the perfect corresponds to an active imperfect. The only examples are with *karta* ‘done, made’, and the construction is formally identical with possessive constructions in which *karta* means ‘work, achievement’ (there may have been a difference in word order):

*taya[-mai]y karta] utā taya-mai] [piča dārayavahauš XŠhāyā karta]*  
 ‘what [I have done] and what my [father King Darius has done]’ = ‘what [has been done by me] and what [has been done by my father King Darius]’ (XPc 13–14);

*[avaišām] avā [nai]y astiy karta]*  
*ya0ā [manā] . . . hamahayāyā 0arda [karta]*  
 ‘[they have not done] as much  
 as [I have done] in one and the same year’ (‘their achievement is not as much as what I achieved in one and the same year’) (DB 4. 51–52).

#### 7.4.4 The Old Persian potential construction

There are a few verbal constructions in Old Persian involving a past participle + forms of *kar-* ‘do’ and *bau-* ‘become’ that express either completion of a past event or the feasibility of a past event. These constructions are commonly referred to as ‘potential’ constructions (see also section 8.2.2.6 Conditional relative clauses):

active:

*yātā [karta] akunavam]*  
 ‘until [I had finished (doing)]’ (DNa 51, XPf 45–46);

passive:

*ya0ā [ka]tam abava]*  
 ‘when it had finished being dug (DSf 25).

### 7.5 Infinitives

#### 7.5.1 Infinitive with intentional verbs

Infinitives either depend upon a verb or are used independently to express the purpose of an utterance or an action. They are used with *vas-* ‘wish’, *vīsa-* ‘be ready’, *hācaiiia-* ‘induce’, verbs meaning ‘order’, etc.:

OAv. *huuō nē . . . vaštī . . . car'kər'Orā [srāuuaiieḡhē]*  
 'he wishes [to make heard] for us poems of praise' (Y. 29.8);

YAv. *yaθa azəm hācaiene . . .*  
*zaraθuštrəm [anu-matē] daēnaiiāi*  
 'that I shall induce . . .  
 Zarathustra [to help] the vision-soul [along with his thought]' (Yt. 5.18);

OPers. *utā-diš atāvayam [bartanaiy]*  
 'and I was able [to bear] them' (DNb 46–47);

*ima stānam hauv niyaštāya [ka'tanaiy] . . .*  
*pasāva adam niyaštāyam imām dipim [ni-paištānaiy]*  
 'and he gave the order [to dig] this niche.  
 then I gave the order [to write] this inscription' (XV 20–25).

### 7.5.2 *Infinite with verbs of speaking and thinking*

Verbs meaning 'think, speak, see' can take a direct object plus infinitive ('accusative with infinitive') as the transformation of a S + V clause; the infinitive of 'to be' can then also take an accusative predicate (see also Gippert 1985):

OAv. *aṭ θβā mēḡhī . . . yazīm [stōi]*  
 'thus, I think of *you* [to be = as being] youthful' (Y. 31.8) [< 'I think: you are young'];

YAv. *ašauuanəm tē [āfiē'diāi] mraomi*  
 'I tell you a sustainer of Order [(is) to be obtained] (from a sustainer of Order)'  
 (Y. 71.13) [< 'I tell you: a sustainer of Order is obtained'].

### 7.5.3 *Independent use*

Infinitives are used independently to express purpose, in which case the subject/direct object of such an infinitive may be in the dative:

OAv. *taṭ mōi [vī-cidiāi] vaocā . . .*  
*[vīduiē] . . . [mēḡ]-cā [dā'diāi]*  
 'speak that to me [for (it) to be discriminated],  
 [for (me) to know] (it), . . . and [for (it) to be kept in (my) mind]' (Y. 31.5);

YAv. *frā gauue-dat. [vər'ndiāi] . . . ā hīm vaēdaiiamahī*  
 'in order for the cow [to be chosen], we make her known to (you)' (Vr. 4.2);

OPers. *āiš hadā kārā . . . hamaranam [cartanaiy]*  
 'he came with an army [in order to do] battle' (DB 2.67).

## 7.6 Verbal adjectives of necessity/gerundives

See Dative of agent (section 6.4.5.5).



## 8 SYNTAX IV: COMPLEX SENTENCES

### 8.1 Coordination

The usual method of coordination is by way of conjunctions. The most common exceptions are various kinds of parataxis and repetition.

#### 8.1.1 Parataxis

Both coordination and, in Old Persian, subordination can be expressed by parataxis:

YAv. *vīsa'ti dim fraγrāraiō – nōi't \*fraγrāraie'ti*  
 'he declares himself ready to wake him (and then, but) does not wake him' (N. 1);

OPers. *avaiy mā dauštā biyā – <sup>h</sup>ufraštā-dīš parsā*  
 'you should not favour them (and = but) punish them well!' (DB 4.69).

With existential verb:

*utā aniyaš-ca āha – duškartam akariya*  
 'and there was other matter as well (and it = that) had been made badly' (XPh 41–42);

*astiy a"tar aitā dahayāva . . . – ayauda*  
 'there were among these lands (and they = some that) were in turmoil' (XPh 29–32).

In Old Persian and 'post-Old Persian', the verbs 'to send' and 'to command, order to do' can be construed with an unmarked clause:

*pasāva adam frāišayam ūvjam – hauv āçina basta ānayatā abiy mām*  
 'then I sent (an order) to Elam (and) that Āçina was brought bound to me' (DB 1.82–83);

*niyaštāyam – hauv araxa utā martiyā . . . uzmayā-patīy akariya"tā*  
 'I issued (an order) (and) that Araxa and the men . . . were impaled' (DB 3.91–92).

#### 8.1.2 Repetition

In Avestan, nominals, verbs, preverbs, prepositions and negations are often repeated instead of being coordinated by conjunctions (frequent in incantations):

adjectives:

YAv. *asista nū aįha't haca vīsa't gāuš buiīā't*  
*asistəm ašəm asistəm narš ašaonō aojō*  
*asistō āhūiriš tkaēšō*  
 'may the cow now be **not cut off** from this town,  
 (**not cut off** =) **nor** the Order, **nor** the strength of the Orderly man,  
**nor** the \*guidance of Ahura Mazdā!' (Y. 60.3);

verbs:

*nase \*da'uii druxš nase daēuuō.ciθre*  
*nase daēuuō.frakaršte nase daēuuō.fradā'te*  
*apa druxš nase apa druxš duuara*

*apa druxš vī-nase apāxədre apa-nasīehe*  
 Get lost, deceiving Lie! Get lost, you demon-spawn!  
 Get lost, you demon-dragged-forth! Get lost, you demon-made!  
 Disappear, O Lie! Run away, O Lie!  
 (Run) away and lose yourself, O Lie!  
 You disappear in the northern (direction).

pronouns:

OAv. *kaṭ tōi rāzar*<sup>3</sup>  
*kaṭ vašī kaṭ vā stūtō kaṭ vā yasnahīā*  
 ‘what (is) a \*straight utterance for you?  
 what do you want: what of praise or sacrifice?’ (Y. 34.12);

YAv. *imaṭ vō āpō ja’düemi*  
*imaṭ z<sup>3</sup>mō imaṭ<sup>3</sup>ruuarā imaṭ aməšā spənta*  
 ‘this I request from you, O waters,  
 and from you, O earths, O plants, and O Life-giving Immortals’ (Y. 65.12);

preverbs:

*nī tē zā’re madəm mruīē*  
*nī aməm nī vər<sup>3</sup>Oraynəm* (etc.)  
*nī taṭ yaθa . . . vasō.xšaθrō fracarāne . . .*  
*nī taṭ yaθa ta<sup>3</sup>ruuāieni . . .*  
 ‘I call **down** your intoxication, O tawny one,  
 your strength, **and** obstruction-smashing . . .  
 (I call it) **down** so that I may go forth commanding at will . . .  
 and so that I may overcome . . .’ (Y. 9.17–18);

prepositions:

*para auuāṅhe ašnō dāṅhōiṭ*  
*para āpō para z<sup>3</sup>mō para<sup>3</sup>ruuarāiā* (etc.)  
 ‘before the establishment of yonder sky,  
 of the water, of the earth, **and** of the plant . . .’ (Y. 19.8);

negations:

OAv. *nōiṭ nā manā / nōiṭ sēṅhā nōiṭ xratauuō /*  
*naēdā var<sup>3</sup>nā / nōiṭ uxδā naēdā šīiaoθ<sup>3</sup>nā /*  
*nōiṭ daēnā / nōiṭ<sup>3</sup>ruuqno . . . haciṭē*  
 ‘neither our thoughts, announcements, guiding thoughts,  
 preferences, utterances, actions,  
 vision-souls, **nor** breath-souls go together’ (Y. 45.2);

YAv. *mā buiama šōiθrō.<sup>3</sup>ricō . . .*  
*māda yaṭ nō ugra.bāzāuš niuuānāṭ*  
 ‘may we **not** be those who leave the settlements . . .  
 nor indeed (may it happen) that a strong-armed one should \*conquer us’ (Yt. 10.75);

OPers. *naiy āha martiya naiy pārsa naiy māda*  
*naiy amāxam taumāyā kaš-ci-y*

‘there was **no** man, **either** Persian **or** Mede  
**or** indeed any of Our family’ (DB 1.48–49);

*abiy imām dahayāum mā ājamiyā*  
*mā hainā mā dušiyāram mā drauga*  
‘against this land may there **not** come  
an enemy army, famine, **or** the lie!’ (DPd 18–20).

### 8.1.3 Conjunctions

#### 8.1.3.1 Coordination

The coordinating conjunctions are *utā* and enclitic *-cā* ‘and, as well’, which coordinate words (and their epithets), clauses or sentences. Common coordinations include the sequences A B-*ca* and its extension A B . . . C-*ca* and *uta* A *uta* B. Combinations include *uta* . . . -*ca*, *uta* . . . *uta* . . . -*ca*, -*ca* . . . *ca* . . . *uta* ‘and also, as well’. For Old Persian, see Klein 1988.

Connecting sentences:

YAv. *vaṅhuš sraošō . . . hē-ca iða yōiθβā astu*  
‘good Sraoša . . . **and** let him have taken up his position here’ (Y. 27.6);

OPers. *manā auramazdā upastām baratuv . . . utā imām dahayāum auramazdā pātuv*  
‘let Ahuramazdā bear me aid, **and** let Ahuramazdā protect this land!’ (DPd 13–16).

In Old Avestan, the form A B*cā* # C may be possible at the cesura:

*ā mā [aēš<sup>o</sup>mō hazas-cā # rəmō] °hišāiiā*  
‘[Wrath and violence, (as well as) restraint] keep me tied up’ (Y. 29.1).

The sequence A-*ca* . . . B-*ca* can take an adjective or a pronoun, or it can itself be the subject or direct object of a verb or be governed by adpositions:

OAv. *aṭcā hōi scaṇtū manarhā uxδāiš šiaoθanāišcā . . .*  
*[kauuacā vištāspō zaraθuštriš spitāmō f<sup>o</sup>rašaoštrascā]*  
‘and so **let them follow** with thought, utterances, and actions . . .  
[Kauui Vištāspa, a Zarathustra-follower (and) Spitamid, and Fraša-uštra]’ (Y. 53.2);

YAv. *ima [haomas-ca miiazdqs-ca zaoθrās-ca]*  
‘**these** [haomas, myazdas, libations]’ (Y. 4.1);

*aṇtar<sup>o</sup> [māṅhəm-ca huuar<sup>o</sup>-ca]*  
‘**between** [the moon and the sun]’ (Yt. 6.5);

OP. *aita-maiy aruvastam upariy [manaš-cā ušī-cā]*  
‘This is my ability **in** [thought and understanding]’ (DNb 31–32).

Occasionally OPers. *utā* introduces a main clause after a subordinate clause with the function of accommodating an enclitic pronoun:

OPers. *imā uvnarā tayā . . . utā-diš atāvayam bartanaiy*  
‘these (are) talents which . . . **(and) I** was able to carry them’ (DNb 45–47).

## 8.1.3.2 Disjunction

The disjunctive conjunctions are enclitic *vā* ‘or’ and tonic *aṭ vā* ‘or else’, negated YAv. *nauua* ‘or not’, ‘nor’.

The sequence A B-*vā* (A B-*vā* C-*vā*) is most common with clauses, but relatively seldom found with single words. Other sequences include A *vā* B *vā* (C *vā*), X *vā* A B *vā*, A *vā* *aṭ vā* B (see also section 5.3.1 Questions):

OAv. *vand<sup>h</sup>ntī vā vānghən vā vaonar<sup>h</sup> vā*  
 ‘(who) are winning, shall (now) win, **or** have (always) won’ (Y. 39.2);

*yā aṣaonē vahišṭō # x<sup>h</sup>aētū vā aṭ vā vər<sup>h</sup>zēniō /*  
*d<sup>h</sup>riiamnā vā*  
 ‘(he) who is best for the sustainer of Order #  
**either** through (his) \*family **or else** (as) a member of the \*household  
**or** by (his) \*community’ (Y. 33.3);

YAv. *us vā hištō nī vā pa<sup>h</sup>ḍiiaṃnō*  
 ‘standing up **or** lying down’ (Yt. 1.17);

OPers. *yadiy imām dipim vaināhəy imai-vā patikarā*  
 ‘if you see this inscription **or** these images’ (DB 4.72–73);

negated:

*uzgər<sup>h</sup>ptāt pa<sup>h</sup>ti draonāt nauua uzgər<sup>h</sup>ptāt*  
 ‘at the *drōn* lifted up **or not** lifted up’ (V. 5.26);

*kā hē asti ciθa . . .*  
*nauua hē asti ciθa nauua hē asti āpər<sup>h</sup>tiš*  
 ‘what is the penalty (etc.) for it? . . .  
 there is **neither** penalty for it, **nor** is there expiation for it’ (V. 3.38–39).

## 8.1.4 Coordinating particles

These are sentence-initial, -medial and -final.

8.1.4.1 Sentence-introductory *aṭ*, *ā<sup>h</sup>t*

These are the two most common particles in Old and Young Avestan and, according to the context, may be rendered as ‘and, then, but’, and similar. They can be followed by a temporal clause introduced by OAv. *hiiaṭ*, *yadā*, YAv. *yaṭ* ‘when’. Enclitic *aṭ* is typical of the *Yasna Haptaṃhāiti* (Y. 35–41). They are also used as adversative particles:

OAv. *sraotā gəuš. āiš . . .*  
*aṭ tā manūi pa<sup>h</sup>ruiiē . . .*  
*aṭ-cā hiiaṭ tā hēm maniiū jasaētəm . . .*  
 ‘listen with your ears . . .  
**Then**, those two spirits in the beginning . . .  
 and **then, when** those two spirits come together’ (Y. 30.2–4);

*aṭ-cā* ‘as well as’, *aṭ vā* ‘or else’:

*f<sup>3</sup>δrōi . . . pa<sup>1</sup>θiiaē-cā vāstriiaē<sup>1</sup>biiō aṭ-cā x<sup>1</sup>aētauuē*  
 ‘to (her) father **and** husband, to the foragers,  
**as well as** the \*family’ (Y. 53.4);

*yasnəm . . . xšmāuuatō*  
*aṭ vā ašā staomiā vacā*  
 ‘the sacrifice to one like you (pl.),  
**or else**, by (my) Order, words of praise’ (Y. 33.8);

enclitic *aṭ*:

*apō aṭ yazama<sup>1</sup>dē*  
 ‘**and so** we sacrifice (to) the waters’ (Y. 38.3);

*sraēštqm aṭ tōi kəhr pēm kəlrpqm āuuāēdaiimahī*  
 ‘**thus**, as your form, the most beautiful of forms, we are making known . . .’ (Y. 36.6).

YAv. *ā<sup>1</sup>t*:

*ā<sup>1</sup>t yaṭ miθrəm . . . frādāqm . . . ā<sup>1</sup>t dim dadqm*  
 ‘**then**, when I brought forth Miθra . . . **then** I established him’ (Yt. 10.1);

adversative *aṭ*, *ā<sup>1</sup>t*:

In Old Avestan, all examples of *aṭ* introducing a second ‘half-line’ and several introducing ‘verse lines’ (exc. *aṭ vā*, *aṭ-cā*) appear to have adversative function, occasionally also when enclitic. YAv. *ā<sup>1</sup>t* often has adversative function, notably in conditional clauses introduced by *ā<sup>1</sup>t yezi* (Vid.), *yezi ā<sup>1</sup>t* (Nir.):

OAv. *acištō drəguuatqm # aṭ ašāunē valištəm manō*  
 ‘the worst (existence will be that) of those possessed by the Lie #  
**but** for the sustainer of Order (there will be) best thought’ (Y. 30.4);

YAv. *vispe zī anīie maδāṅhō aēšma hacinṭe . . .*  
*ā<sup>1</sup>t hō yō haomahe maδō aša haca<sup>1</sup>te*  
 ‘for all other intoxications are followed by Wrath (i.e. darkness and night),  
**but** the intoxication of the *haoma* is followed by Order (i.e. light and day)’ (Y. 10.8);

*mā ciš baraṭ aēuuō yaṭ<sup>1</sup>ristəm*  
*ā<sup>1</sup>t yezi šē barāṭ*  
 ‘let no one carry alone what is dead;  
 but *if* he carries alone something that is dead . . .’ (V. 3.14);

*yō gāθā srāuuaiē<sup>1</sup>ti . . .*  
*yezi hauuaē<sup>1</sup>biia ušibiia a<sup>1</sup>βi.s<sup>1</sup>runuua<sup>1</sup>ti ratufriš*  
*yezi ā<sup>1</sup>t nōiṭ hauuaē<sup>1</sup>biia ušibiia . . .*  
 ‘he who recites the Gāθās . . .  
 if he can hear (them) with his own ears, (then) he satisfies the (ritual) models,  
 but if he cannot hear (them) with his own ears . . .’ (N. 8).

## 8.1.4.2 Emphatic particles

These include Av. *ī* (combines with various other particles for emphasis); Av. *-cī*, OPers. *-ciy* ‘even, -self, just, exactly’ (OAv., YAv. *aṭ-cī*, *aṭ-ci*, OPers. *aciy* ‘even then, so’); Av. *-cinā* (<*-cana*) ‘especially, even’; *tū* (used with imperative and optative); and *vōi* ‘\*definitely’:

OAv. . . . *yazama'dē varjūš-cā ī varj'hiš-cā ī*  
 ‘. . . we are sacrificing to **both** the good male ones **and** the good female ones’  
 (Y. 39.3);

YAv. *a0ā a0ā cōī* (<*ca-i*) *zara0uštrō . . . viāmruuīta*  
 ‘and in that **very** manner, Zarathustra would renounce . . .’ (Y. 12.6);

*vīspəm ā ahmā ī yaδōī* (*yaδa-i*) *upa.jasōī 'ristqm tanūm*  
 ‘**just** until **when** he might come upon the dead body’ (V. 6.27);

OAv. *azēm-cī*  
 ‘I for my part’ (Y. 29.10);

*taṭ nē nū-cī var'šānē*  
 ‘that best (action/command) I am **just** now about to produce for us’ (Y. 51.1);

OPers. *ya0ā paruvam-ci*  
 ‘**just** like before’ (DB 1.63);

OAv. *aṭ-cī aē'biio vahištā yōi . . .*  
 ‘**but also** as the best things to those who . . .’ (Y. 31.1);

YAv. *yaṭ-ci tanūm apaiie'ti aṭ-ci dim nōī rāšaiēte*  
 ‘**even when** it reaches the body, **even then** it does not harm him’ (Yt. 10.2);

*utā vištāspa utā aršāma ubā ajīvatam*  
*āciy . . . dārayavaum . . . xšāya0iyam akunauš*  
 ‘both Vištāspa and Aršāma were (still) alive.  
 but, **\*even so**, he made Darius king’ (XPf 19–24);

OAv. *aiiā nōī ar'š višiiātā daēuuā-cinā*  
 ‘**especially** the old gods did not discriminate rightly between these two’ (Y. 30.6);

YAv. *mā aḍa ka0a-cina ḥpa'ti.jime*  
 ‘may **\*I not** come up against any such **at all!**’ (Vr. 22.2);

OAv. *huxša0rastū nē nā vā nārī vā xšaētā*  
 ‘may a man or a woman of good command command us!’ (Y. 41.2);

*ātarš vōi mazdā ahurahiiā ahī*  
 ‘you are **definitely** “the fire of Mazdā Ahura”’ (Y. 36.3).

8.1.4.3 *zī* ‘for’

The enclitic particle *zī* is an explanatory particle used in main, subordinate, and parenthetical clauses with the general meaning of ‘for, namely’. Av. *yezī*, which in Young Avestan is in complementary distribution with *yeidi zī*, may be from *\*yaṭ zī* (see section 8.2.4 Conditional clauses):

OAv. *aṭ tōi aṅhən . . . tōi 𐬀 dātā hamaēstārō*  
 ‘and they shall be . . . **for** they (have been) made/established as opponents’ (Y. 48.12);

*nū 𐬀𐬀 (< zī īt) . . . viiādarəsəm*  
 ‘**for I just** now caught sight of’ (Y. 45.8).

YAv. *nōiṭ 𐬀 ahmi pa’ti na’ri duua maniiu rēna auuastāṅhaṭ*  
 ‘**for** not shall over this man the two spirits take up a firm stance (of competition)’  
 (V. 7.51–52).

See also section 5.3.3 Parenthetical clauses.

#### 8.1.4.4 Responsive *bā*, *bōiṭ*

The particle is found once in the *Yasna Haptaṅhāiti*, but more frequently in Young Avestan, where it is often used in answers to questions or as emphasis:

OAv. *huxšaθrō.təmāi bā aṭ xšaθrəm . . . dad’ mahi-cā*  
 ‘**yes**, for (you) having the greatest command,  
 we then establish the command’ (Y. 35.5);

YAv. *ciθra vō buiār’š masānā . . .*  
*ciθrəm bōiṭ (< bā īt) yūžəm-ciṭ x’ar’nō . . .*  
 ‘may your \*greatnesses be brilliant! . . .  
**yes, and** may you, too, give brilliant munificence . . .!’ (Ny.3.11).

#### 8.1.4.5 OAv. *θβaṭ*, YAv. *bāda* ‘\*sometimes, \*again and again’

OAv. *kē yā mā uxšieitī nərəfsaitī θβaṭ*  
 ‘who (is he) through whom the moon is (now) **first** waxing **then** waning (is again and again waxing and waning?)’ (Y. 44.3);

YAv. *həṅti bāda māuuaiiaciṭ caθβārō aršāna*  
 ‘even *I* have \***again and again/at times(?)** four males’ (V. 18.31).

#### 8.1.4.6 Interjections

The interjections are *uštā* ‘hail! good luck!’, *nəmō* ‘hail!’, OAv. *auuōi*, YAv. *āuuōiia*, *bāuuōiia*, and *sādrəm* ‘woe!’, which take the dative, and YAv. *āi* ‘O!’, which takes the vocative.

## 8.2 Subordination

Subordinate conjunctions are usually derived from the relative pronominal stems (OAv. *hiia-*, *ya-*; YAv. *ya-*; OP. *ya-*, *taya*).

### 8.2.1 Substantival that-clauses

These function typically as the subject or direct object or appositions to the subject or direct object. The mood is according to the meaning:

OAv. *aṭ zī tōi vaxšiiā . . . [hiiaṭ akōiiā drəguuā'tē]*  
 'for thus I shall tell you . . . [**that** for the one possessed by the Lie (it will end) in an evil (turn)]-DO' (Y. 51.8);

*taṭ aṭ var'madī . . . [hiiaṭ ī mā'nimā'di-cā]*  
 'thus, we (now) prefer **that**: [**that** we may think them and . . .]-DO' (Y. 35.3);

YAv. *taṭ alumāi jasaṭ āiiaptəm [yaṭ hē puθrō us.zaiiata]*  
 'that prize came to him [**that** a son was born to him]-S' (Y. 9.4);

OPers. *kārahayā naiy azdā abava [taya bardiya avajata]*  
 'it did not become known to the army [**that** Smerdis had been killed]-S'  
 (DB 1.31–32);

*ava adam akunavam . . . [yaθā aniya aniyam naiy ja'tiy]*  
 'that I accomplished: [**that** they no longer kill one another]-DO' (DSe 34–36);

*utā [taya būmiš akaniya fravata] . . . kāra haya bābiruviya hauv akunauš*  
 'and [(the fact) **that** the earth was dug down]-DO, the Babylonian people did (it)'  
 (DSf 28–30) [or: *nominativus pendens*];

*nai-mā kāma*  
*[taya skauθiš tunuva'tahyā rādiy miθa<sup>h</sup> kariyaiš]*  
 'it is not my desire  
 [**that** a weak (man) should be done wrong by a mighty (one)]-S' (DNb 8–9) [*kariyaiš*:  
 optative of wish].

### 8.2.2 Relative clauses

Relative clauses are the most frequent subordinate clauses in Old Avestan and probably in Young Avestan and Old Persian. They are adjectival and are often coordinated with adjectives.

A relative clause can precede, follow, or include its antecedent, which can be overt (explicit) or gapped (omitted) or just implied by the verb. It can be next to the antecedent or separated from it. The antecedent can be a noun or a (personal, demonstrative, interrogative, indefinite) pronoun. The antecedent and the relative pronoun can be in the same case or in different cases, the antecedent usually being in the case demanded by the syntax of the main clause and the relative pronoun in the case demanded by the syntax of the relative clause, but case 'attraction' (assimilation) also occurs.

Like adjectives, relative clauses can be 'substantivised' and take the place of a noun and so by themselves function as subject, direct object, etc. ('he who'-clauses). An antecedent or resumptive 'dummy' pronoun may be present, which, by its case, shows the syntactic function of the relative clause: 'I saw him who killed the dragon', '(the one) who killed the dragon, **him** I saw'. In Old Persian, the 'he who' clauses were standardised and produced a new relative pronoun *haya-*, *taya-* (cf. Adiego Lajara 2000).

As in other early Indo-European languages, the antecedent of the relative may be located inside the relative clause (included) and may be in the same case as the relative pronoun. Such relative clauses may originate from interrogative or indefinite clauses: 'which man killed the dragon?', 'whichever man killed the dragon' > 'which man killed the dragon went away' (see also Kellens and Pirart 1990, Chapter 2 on relative clauses).



See also section 6.1.1 The Young Avestan and Old Persian connecting relative and the relative particle.

### 8.2.2.1 The use of moods and tenses in relative clauses

All tenses and moods are used in relative clauses, but the functions of the moods can differ slightly from those in main clauses:

subjunctive present:

OAv. [yā vā mazdā ahurā pā'rijasāi] vohū manaijāhā  
 '(I) [who **shall circumambulate** you (pl.)], O Mazdā Ahura, with (my) good thought'  
 (Y. 28.2);

YAv. aṭ-cā tōi vaēm xiiāmā [yōi īm f'rašēm kər'naon] ahūm  
 'thus, also: may *we* be those [who **shall make** it perfect], (this) existence' (Y. 30.9);

subjunctive aorist:

OAv. hātqm huuō aojištō  
 [yahmāi zauuēng jīmā \*kərəduš ā]  
 'he is strongest of (all) who are [for whom **I shall come** (<ā jam-) to (his) calls (even if they are) weak]' (Y. 29.3);

optative present:

OAv. [yā hūm ahmāi vāstrauu' tīm stōi usiāt]  
 '(someone) [who **might wish** her and (her) pasture to be for him]' (Y. 50.2);

optative aorist:

taṭ ahiia [yā taṭ upā.jamiāmā] tauua-cā haxəmə  
 'that of this (one) [by which **we may come** to that], (namely) your company and . . .'  
 (Y. 40.2).

### 8.2.2.2 Old Avestan relative clauses

The Old Avestan relative clauses are particularly difficult to parse, partly because of the poetic word order and partly because of frequent ellipsis of antecedent, verb, etc.

#### 8.2.2.2a Relative clause precedes the main clause

Antecedent implicit in verb with overt resumptive pronoun:

[yā . . . aṣəm nipā'ijhē manas-cā vohū yauuaētātē] | tuuōm . . . frō mā sīšā  
 '[(you-sing.) **who** are guarding Order and good thought for the duration of a lifespan,] teach **you** me!' (Y. 28.11);

[yā frauuaxšiiā] yezī tā aōā h'ə'iiā  
 '(the words) [**which** I want to pronounce] – for if **they** (are) true in this manner'  
 (Y. 44.6);

[yā vā . . . pā'rijasāi . . .] mā'biio dāuuōi ahmuā . . . āiaptā  
 'for (you) to give **to me**, [**who** shall circumambulate you], the spoils of both existences' (Y. 28.2).

Antecedent implicit in verb without overt resumptive pronoun:

*[yōi mōi ahmāi sərəšəm dān (daʾan-3p) caiias-cā]-S*  
*upā.jimən-3p hauruuātā amərətātā*  
 ‘[whosoever shall give readiness to listen to this one of mine],  
 they shall come to wholeness (and) immortality’ (Y. 45.5);

*[yehiā mōi . . . vahištəm yesnē paʾitī]-DO* *vāēdā mazdā ahurō*  
 ‘(he) [in return for whose sacrifice the best (accrues) to me], Mazdā Ahura knows  
 (him)’ (Y. 51.22).

Antecedent included in relative clause with overt resumptive pronoun:

*[yē zaotā ašā ərəzuš] huuō . . .*  
 ‘[the libator who (is) straight by (his) Order], he . . .’ (Y. 33.6);

*[yās-cā tōi gʾnā . . . vaʾriiā] tā yazamaʾdē*  
 ‘[and the women who (are) your well-deserved ones], those we are sacrificing (to)’  
 (Y. 38.1).

Antecedent included in relative clause without overt resumptive:

*[yē maθrā vācəm . . . barʾitī]-S . . . zaraθuštō*  
 ‘the poet who is lifting (his) voice], . . . (he is I/he) Zarathustra’ (Y. 50.6);

*[hiiaṭ mīzdəm zaraθuštō magauuabiiō cōišṭ parā]-INSTR*  
*. . . ahurō mazdā jasaṭ paurauiō*  
 ‘[the fee which Zarathustra assigned before to the masters of the gift-exchange],  
 (with that) Ahura Mazdā comes (forward as) the first (in line)’ (Y. 51.15).

#### 8.2.2.2b Relative clause follows the main clause

Overt antecedent preceding the main clause:

*kē [yā mā uxšieitī nərəfsaitī 0βaṭ]*  
 ‘who (is he) [through whom the moon is (now) first waxing then waning]?’ (Y. 44.3);

*aēm mōi idā vistō [yē nē aēuuō sāsnaṅ gūšatā]*  
 ‘this one (is the one) found by me [who alone has listened to our ordinances]’  
 (Y. 29.8);

*sraotū mazdā ahurō [yehiā vahmē vohū frašī manaḡhā]*  
 ‘let Ahura Mazdā listen, [in whose hymn I have (now) asked my good thought]’  
 (Y. 45.6).

Antecedent overt and included:

*xšaθrəm-cā . . . [yā xšaθrā grēhmō hišʾsaṭ]*  
 ‘and (their) command . . . [a command by which the \*glutton \*seeks a seat]’  
 (Y. 32.12–13).

Without overt antecedent:

*hiiaṭ . . . uštā [yē ašəm dādrē]-DAT*  
 ‘that . . . wished-for (things for him) [who upholds Order]’ (Y. 51.8);

*hiiaṭ-cā gāuš ja'diūi mraoī [yē dūraošəm saocaiiaṭ auuō]-AG*

‘and when the cow is mistreated to (the point of) being smashed (by **him**) [**who** “purifies” (by burning) the *haoma*]’ (Y. 32.14).

Antecedent implicit in the verbs:

*anāiš vā nōiṭ . . . yānāiš zar<sup>a</sup>naēmā-1p . . . [yōi . . . yōiθ<sup>a</sup>mā-1p]*

‘may **we** not anger you with those requests (to you), [**we who** have taken our places]’ (Y. 28.9);

*dāidi-2s mōi [yē gəm tašō-2s]*

‘**give** me (now), [**you who** fashioned the cow . . .!]’ (Y. 51.7);

*var<sup>a</sup>štəm-3s [hiiaṭ vasnā frašō.təməm (COP 3s)]*

‘let (**that**) be produced [**which** is most perfect in exchange value]!’ (Y. 50.11).

Antecedent included in relative clause:

*aṭ yūš daēuuā vspāṅhō akāṭ manāṅhō stā ciθrəm [yas-cā vā maš yazd<sup>a</sup>tē]*

‘but you, O old gods, are all (of you) the \*seed (issued) from an evil thought, and (so is) [**the great one who** is sacrificing to you]’ (Y. 32.3);

*təm kauuā vīštāspō . . . nqsaṭ . . . [yəm cistīm . . . maṅtā]*

‘Kauui Vištāspa \*reached **that** (insight), [**the insight which** he thought]’ (Y. 51.16).

Relative clause coordinated with noun or adjective:

OAv. *[vāstriiāṭ vā] d<sup>a</sup>tē [yē vā nōiṭ aṅhaṭ vāstriiō]*

‘to come [to the forager] or (to him) [**who** shall not be a forager]’ (Y. 31.9);

*ahuuā [astuuatas-cā hiiaṭ-cā manāṅhō]*

‘of both worlds, both the one with bones and (the one) **which** (is) of thought]’ (Y. 28.2).

### 8.2.2.2c Case attraction of relative pronoun

There are a few instances in Old Avestan in which the relative pronoun appears to have been assimilated to the case of its antecedent, which may or not be present. We may distinguish between two cases:

- I. The verb comes after the relative clause and may be considered as part of both the main and the relative clause:

*vahištəm θβā . . . [yēm ašā vahištā hazaošəm ahurəm] yāsā*

‘**you the best-DO** (one), [**whom-DO** of the same pleasure as the best Order, (you) the Ahura-DO] **I ask for** . . .’ (Y. 28.8).

2. A verb may be supplied in the relative clause, e.g. ‘whom (I know as)’, ‘whom (X said to be):

*yaiiā spaniā \*u<sup>a</sup>tī mrauuāṭ [yēm aṅgrəm]*

‘of which two the life-giving one shall tell (**him**) [**whom** (you know/said to be) the Evil one]’ (Y. 45.2),

cf.

[yəṅg . . . vōistā . . . dāōəṅg]

‘(those) [whom you know to follow the established rules]’ (Y. 28.10);

tām aduiānəm . . . [yām mōi mraoš vaṭṭhēuš manaṭhō]

‘(teach us) that road [which you . . . tell me (is that) of good thought]’ (Y. 34.13).

### 8.2.2.3 Young Avestan relative clauses

The Young Avestan relative clauses show several of the general features of the Old Avestan ones, although, on the whole, they are less complex. They may precede or follow the main clause, and the antecedent and resumptive may be overt or not.

#### 8.2.2.3a Relative clause precedes main clause

Antecedent included in relative clause:

[yqm ašauua vaṭṭhim ašaiqm vaēda] tqm druudā əuiiδuudā

‘[the Orderly fashion which the Orderly one knows to be good], (of) that the Lieful one is ignorant’ (Vr. 22.2).

#### 8.2.2.3b Relative clause follows the main clause

Overt antecedent outside relative clause:

ciṭ auuaṭ vacō ās ahura mazda [yaṭ mē frāuuaoocō]

‘which was yonder word, Ahura Mazda, [which you said forth to me]?’ (Y. 19.1).

Antecedent not overt:

tām aoi ṭbaēšā iša pa’tiiāntu

‘Oiiējā iša [yō ī daḍa]

‘Oiiējā yaṭtu [yō dī daḍa]

‘by (this) invigorant let the hostilities go back against him [who has established them]

(and), by (this) invigorant the dangers (against him) [who has established them]! let the dangers go (to him) [who has established them]!’ (Y. 65.8).

Antecedent included in relative clause:

rəṅjāti haomahe madō [yō . . . haoməm vaṇdāte mašiiō]

‘the intoxication of the haoma energises [the man who honors the haoma]’ (Y. 10.8).

#### 8.2.2.3c asti ya- ‘here is/some of which’

Young Avestan relative clauses with *asti* (*asti yō*, etc.) express ‘some . . . others’ (cf. Middle Persian *ast ī*, Ch. 4, sections 5.2.2.8 and 5.3.4):

hazaṅrəm \*Oanuuaninqm asti yō gauuasnahe snāuuia jiia . . .

hazaṅrəm \*išunqm . . . asti yā aṅhaēna spar’ya

‘a thousand \*bows, well-made, some of which have strings made of sinews of gazelles . . .

a thousand arrows . . . some of which have stems made of bone’ (Yt. 10.128–29).

#### 8.2.2.4 Old Persian relative clauses

In Old Persian, the relative clause most often follows its antecedent and is often embedded in the main clause:

*daraniyam hacā spardā utā hacā bāxtrīyā abariya [taya idā akariya]*  
 ‘the gold [that was wrought here] was carried from Sardis and from Bactria’ (DSf 35–37).

Resumptive not overt:

*martiyā [tayai-šaiy fratamā anušiya āhatā] avāja*  
 ‘the men [who were his foremost followers] (those) he killed’ (DB 3.74–75).

Resumptive overt:

*dārayavauum [haya manā pita] avam xšāyaθiyam akunauš*  
 ‘Darius, [who (was) my father], him he made king’ (XPf 22–24).

Antecedent *nominativus pendens*:

*imā dahyāva [tayā adam aqarbāyam] . . . adam-šām patiyaxšayaiy*  
 ‘these countries [which I seized . . .] I ruled over them’ (DNa 16–19).

See section 6.1.1 The Young Avestan and Old Persian connecting relative and the relative particle.

#### 8.2.2.5 Indefinite relative clauses

Indefinite relative clauses are introduced by indefinite pronouns or a combination of relative and indefinite pronouns. The relationships between pronouns and antecedents are the same as for relative clauses:

OAv. *maniūm zaraθuštṛō vər<sup>3</sup>ntē . . . [yastē ciš-cā spēništō]*  
 ‘Zarathustra chooses the inspiration [whichever is your most life-giving]’ = ‘. . . whichever inspiration . . .’ (Y. 43.16);

*[yōi mōi ahmāi s<sup>3</sup>raošəm dcañ caīias-cā] upā.jimən . . .*  
 ‘[whosoever shall give readiness to listen to this one of mine], they shall (now) come to . . .’ (Y. 45.5);

*aṭ huuō . . . [kas-āṭ ašā huzēntuš]*  
 ‘thus, he there is . . . [whoever by (his) Order (is) of good lineage]’ (Y. 49.5);

*uštā ahmāi [yahmāi uštā kahmāicīṭ . . . mazdā dāiūāṭ ahurō]*  
 ‘wished-for (things are) in the wish for him, [to whomever Mazdā Ahura shall give (them)]’ (Y. 43.1).

#### 8.2.2.6 Conditional relative clauses

The only example (OPers.) has the perfect optative potential:

OP. *naiy āha martiya . . . [kaš-ci-y*  
*haya avam gaumātam . . . xšačam dītam caxriyā-3s-perf. opt.]*

‘there was **no man at all** . . .

[**who could have taken** the royal command from that Gaumāta]’ (DB 1.48–49, 53).

See also section 8.2.4.2c Conditions contrary to fact.

### 8.2.3 Adverbial clauses

Adverbial clauses typically function like adverbs, modifying a verb or a clause. Most of them are introduced by adverbial forms of the relative *ya-*: OAv. *hīiaṭ*, YAv. *yaṭ*, OPers. *taya* and *yaθā* ‘as, how’ (most common); local Av. *yaθrā* ‘where’, OPers. *yadā-taya*; temporal OAv. *yadā* ‘when’, YAv. *yaða*, and others.

#### 8.2.3.1 Clauses of time

The conjunctions are OAv. *hīiaṭ*, *parā hīiaṭ* ‘before’, YAv. *yaṭ*, *para . . . yaṭ*, *ā . . . yaṭ* ‘till’, *v̄spəm ā ahmāṭ yaṭ* ‘until’, *yaðōiṭ*, OPers. *yadiy* and *yaθā* ‘when’; OAv. *yadā* ‘when’, *hakaram* ‘once’, and others.

Tenses and moods are mostly as in main clauses:

##### 8.2.3.1a Old Avestan

*aṭ-cā [hīiaṭ tā hōm maniiū jasaētəm-pres. inj.] pa<sup>a</sup>ruuīm dazdē*

‘thus, also: [whenever the two spirits **come together**], (then) one \*receives for the first time’ (Y. 30.4);

*[hīiaṭ us . . . naptiiaēsū nafšucā . . . °jōn-aor.inj. ] . . . (< gan-t < gam-t)*

‘[when he **has come up** among the \*great-grandchildren and grandchildren] . . .’ (Y. 46.12);

OAv. *[yadā aēsəm kaēnā jama<sup>a</sup>tī] . . .*

‘when the retribution **has come** for these (sins)’ (Y. 30.8).

Note the verb-less time clauses; whether the gapped verb is the copula cannot be verified:

*yā mazdāθā [hīiaṭ-cīṭ vīdušē]*

‘(the words) to which attention should be paid, [even **when** (it is) by a knowing (man)]’ (Y. 30.1);

*yaθā tā aṅhən [hōṅkər<sup>a</sup>tā hīiaṭ]*

‘how those shall be [when (they are) at the \*accounting (< hōṅkər<sup>a</sup>ti-)]’ (Y. 31.14).

##### 8.2.3.1b Young Avestan

*[yaṭ-ciṭ ahi-pres. ind. rašnuuō ašāum upa karšuuar<sup>a</sup> yaṭ ar<sup>a</sup>zahi] . . .*

‘[O Orderly Rašnu, just when **you are** over the continent (of) Arəzahi] . . .’ (Yt. 12.9);

*išauuas-ciṭ . . . ašəmnō.vīdō \*bauuainti*

*[yaθa graṅtō . . . miθnā<sup>a</sup>ti miθrō]*

‘even the arrows will not find their targets  
[when Miθra **dwells** angered]’ (Yt. 10.39);

*yauuata gaiia juuūuaa-pres. ind.* ‘as long as we two live’ (Yt. 15.40).

[*yaṭ astuuat. ər'tō fraxštāte-pres.subj. haca apaṭ kaṣaoiiaṭ*] . . .  
 ‘when *Astuuat. ər'ta* shall stand forth from the Kaṣaoiia Sea . . .’ (Yt. 19.92);

*nōiṭ vaṣḥō ahmāṭ šūiaoθnəm vər'zii'eti*  
 [*yaṭ dim puθrahe . . . fr'ā naēzəm nasūm pacāṭ-pres.subj.*]  
 ‘he performs a deed no better than  
 [when one **cooks** the corpse of one’s son on a spit]’ (V. 16.17);

*tqm yazata pāuruuō . . .*  
 [*yaṭ dim usca uzduuqnaiiaṭ-inj. . . . Oraētaonō*]  
 ‘to her Pāuruuō sacrificed  
 [when *Θraētaona* **tossed** him up in the air]’ (Yt. 5.61).

Preterital optative:

[*yaṭ tum d'nim auuaēnōiš*] . . . *ā'ṭ tum niš. hiḏōiš*  
 ‘[whenever **you would see** . . .] then you would sit down’ (H. 2.13);

. . . [*yauuata xšaiiōiṭ huuqθβō yimō*]  
 ‘. . . [for as long as Yima **ruled**]’ (Y. 9.5).

### 8.2.3.1c Old Persian

[*hakaram-maiy ušīyā gāθavā hištataiy-pres. ind.*] . . .  
*adakaiy fratara maniyaiy afuvāyā*  
 [*yadiy vaināmiy-pres.ind. hamičiyam*] *yaθā* [*yadiy naiy vaināmiy-pres.ind.*]  
 ‘[once **it stands** (firmly) in place in my mind] . . .  
 then I feel more beyond fear  
 [when **I see** something conspiratorial than [when **I do not see** (it)]’ (DNb 34–40);

*utā-[taiy yāvā taumā ahatiy-pres. subj.]*  
*auramazdā-taiy dauštā biyā*  
 ‘and, [for as long as **there is** strength to you = you have strength],  
 may Ahuramazdā favour you’ (DB 4.71–79);

*auramazdā* [*yaθā avaina-impf. imām būmim*] . . .  
 ‘Ahuramazdā, [when **he saw** this earth] . . .’ (DNa 31–32);

[*yaθā taya adam xšāyaθiya abavam-impf.*] *astiy* . . . [see section 7.1.1.3]  
 ‘[when **I became** king], there was . . .’ (XPh 29–32);

*viyaxanahayā māhə[yā] XIV raucabiš θakatā āha* [*yadiy ulapatatā-impf.*]  
 ‘it was on the 14th of the month of Viyaxana [when **he rose up**]’ (DB 1.38);

[*yātā adam bābirauv āham-impf.*] . . .  
 ‘[while **I was** in Babylon] . . .’ (DB 2.6);

[*yaθā ka<sup>m</sup>būjiya bardiya avāja-impf.* (< *ava-a-ja<sup>m</sup>*)] . . .  
 ‘[when Cambyses **had killed** Smerdis] . . .’ (DB 1.31–32).

## 8.2.3.2 Clauses of place

The usual conjunction is Av. *yaθrā*; YAv. also *yaṭ* . . . *paiti* ‘where’; OPers. *yadā-taya* and *yadāyā* (for \**yadāyadā* acc. to Schmitt 1994) ‘where’. Indefinite clauses are introduced by YAv. *yaδōiṭ* ‘wherever’ (often indistinguishable from ‘whenever’):

OAv. *hūiaṭ a'bī.g'mən* [*yaθrā cinuuatō pər'tuš*]  
‘when they have come to [where the Ford of the Accountant (is)]’ (Y. 46.11);

YAv. *nasiie'ti . . . ahmaṭ haca nmānāṭ āhitiš . . .*  
[*yaθra bāḍa upastao'ti haomahe . . . baēšazəm*]  
‘pollution disappears from this house  
[where he ever and again praises . . . the healing of the haoma]’ (Y. 10.7);

[*yaδōiṭ dim bā'diš'təm auua. zanqñ -subj. sūnō*] (*sūnō*-acc. for *spānō*-nom.)  
‘[wherever most often dogs will notice him]’ (V. 6.45);

OPers. *utā a'tar aitā dahayāva āha*  
[*yadā-taya . . . daivā ayadiya-impf.*] . . .  
[*yadāyā paruvam daivā ayadiya-impf.*] *avadā* . . .  
‘and among these lands, there was (one)  
[where old gods had been sacrificed to] . . .  
[wherever the old gods were sacrificed to], there . . .’ (XPh 35–41).

## 8.2.3.3 Clauses of purpose

The conjunctions are OAv. *hūiaṭ*, YAv. *yaṭ* and *yaθa*, OPers. negated *mā-taya* ‘lest’. The mood is the subjunctive:

OAv. *vaxšiiā vā* . . .  
[*hūiaṭ dāθōṅg vīcāiaθā-2p-subj. adāθqs-cā*]  
‘I shall tell you,  
[so that you may sort out those according to the rules and those not]’  
(Y. 46.15);

YAv. [*yaθa azəm ta'ruuāieni- subj. vīspe yātauuō pa'rikās-ca*]  
[*yaṭ maṃ naēciš ta'ruuāiāṭ-subj.*]  
‘[so that I shall overcome all sorcerers and witches],  
[so that no one shall overcome me]’ (Yt. 1.6);

OPers. *avahaya-rādiy kāram avājaniyā*  
[*mā-taya-mām xšnāsātiy-subj.*] (*xšnāsā'tiy?*)  
‘therefore he would kill the people/army:  
[so that it (they?) will not recognize-subj. me]’ (DB 1.51–53).

## 8.2.3.4 Clauses of result

The conjunctions are OAv. *hūiaṭ*, YAv. *yaṭ*, OPers. *taya*. The mood is the indicative:

OAv. *hūiaṭ iš d'baomā pər'smanēṅg upā.jasaṭ*  
[*hūiaṭ vər'nātā-pres. ind. acištəm manō*]  
‘because deception would come over them as they were discussing,  
[so that they would prefer the worst thought]’ (Y. 30.6);



YAv. *tā hē ta<sup>a</sup>ruuaitatəm tbaēšā . . .*  
*[yaṭ nōiṭ āpō takāiš staiiat-pres. inj.]*  
 ‘those two overcame his hostilities,  
 [so that he did not stem the waters from (their) courses]’ (Yt. 13.78);

OPers. *drauga-diš \*hamiçiyā akunauš*  
*[taya imaiykāram ad<sup>a</sup>rujiyaš-impf.]*  
 ‘the Lie made them conspiratorial  
 [so that they lied to the people/army]’ (DB 4.34–35).

### 8.2.3.5 Clauses of cause

The conjunctions are OAv. *hiiaṭ*, YAv. *yaṭ* and *yaθa*, OPers. *taya* and *yaθā*. The mood is according to sense:

YAv. *[yaṭ asti-pres. ind. baβriš sraēšta]*  
 ‘[because the female beaver is the most beautiful there is]’ (Yt. 5.129);

*auuaθa saošiiçs [yaθa višpəm ahūm astuuaitatəm sāuuaiiāṭ-pres.subj.]*  
 ‘thus (he is called) ‘Revitaliser,’ [because he will revitalise the entire bony existence]’  
 (Yt. 13.129);

OPers. *avahaya-rādi-maiy auramazdā upastām abara . . .*  
*[yaθā naiy a<sup>a</sup>rīka āham-impf.]*  
 ‘for this reason Ahuramazdā . . .  
 because I was not on the Evil One’s side’ (DB 4.62–63).

In Old Avestan, a causal clause may be correlated with an instrumental of cause/reason:

OAv. *vaēdā taṭ yā ahmī mazdā anaēšō*  
*mā kamnafšuuā [hiiaṭ-cā kamnānā ahmī]*  
 ‘I know that on account of which (= the reason why) I am weak, O Mazdā:  
 (it is) because of my lack of cattle [and because I have few men]’ (Y. 46.2).

### 8.2.3.6 Clauses of manner, degree and comparison

The common conjunction is *yaθā* ‘as, how, than’. Degree is expressed by Av. *yauuaṭ* ‘to the extent that, as long as, until’, *mānaiien ahe yaθa* ‘as if’, etc.; OAv. *yāṭ* and *yā.tē* ‘to the degree that, as far as’. The moods are as in main clauses.

Manner:

OAv. *kā iṣtiš . . . [yaθā vā hahmī-pres. ind.]*  
 ‘what (is your) wish . . . [or (for how I sleep)]?’ (Y. 34.5);

*[yaθā tū ī . . . mēnghā-cā-aor.inj.]*  
 ‘[in the same way that you . . . and have thought them]’ (Y. 39.4);

*tā θβā pərəsā . . . [yaθā tā aṅhən-pres. subj.]*  
 ‘I ask you . . . [how those shall be]’ (Y. 31.14);

YAv. *[yaθa vaši-pres. ind.] . . . ida aṅhō ašauua*  
 ‘[as you desire] . . . here you shall be Orderly’ (Y. 71.16);

*uzjamiqn . . . [yaθa hīš fradaθaṭ-pres. inj.]*  
 ‘may they come up . . . as he brought them forth’ (Y. 55.3);

OPers. [*yaθā-šām hacā-ma aθahaya-impf.*] *avaθā akunavayaʹtā*  
 ‘[as was said to them by me], thus they would do (preterital opt.)’ (DB 1.123–24).

Indefinite manner:

YAv. [*yaθa kaθa-ca hē zaošō*]  
 ‘[howsoever his pleasurē (may be)]’ (Yt. 4.7).

Comparison:

YAv. *yā yāskərʹstarā ahmāṭ* [*yaθa vaca framrauūāʹre-pres.ind.I*]  
 ‘who are more effective at the audition [than they can be said forth with words (to be)]’ (Yt. 13.64).

‘As if’-clauses take the optative:

[*mānaiiēn ahe yaθa hazaṅrəm narqm ōim narəm ādərʹzaiiōiṭ-pres.opt.*]  
 ‘[as if 1000 men were to fetter a single man]’ (Yt. 8.55).

Degree:

*auuaṭ* [*yāṭ huuarʹ auuācī -aor. pass.*] ‘as (high) [as the sun has been said (to be)]’  
 (Y. 36.6).

Indefinite degree clauses take the subjunctive:

OAv. [*yauuaṭ ašā tauuā-subj.-cā isāi-subj.-cā*]  
 ‘[to the extent I by the Order (of my ritual) can and am able]’ (Y. 50.11);

[*yauuaṭ cuiuaṭ-ca hē zastaēʹbiia haṅgəʹruuaitiqn-subj.*] *aētauuaṭ . . .*  
 ‘[however much of it they can grasp by the hands], this much . . .’ (V. 6.29).

#### 8.2.4 Conditional clauses

The conjunctions are OAv. *hiiaṭ*, *yezī*, YAv. *yaṭ*, *yezi* (*yeidi* before *zī*), OPers. *yadiy*. Real conditions are expressed by various combinations of indicative, subjunctive, optative and imperative. The order of protasis (if-clause) and apodosis (then-clause) is irrelevant. See also Panaino 1989–90.

##### 8.2.4.1 Conditional clauses in Old Avestan

The Old Avestan *yezī* clauses seem to be ‘truth-tests’: ‘if something is/was/will be true, then . . .’. The apodosis either contains a statement about the current state of the world or a request for knowledge, rewards or similar in the imperative:

*yā frauuaxšiiā* [*yezī tā aθā haʹθiiā (COP)*]  
*ašəm šiiāoʹnāiš dʹbqzaʹtī-pres. ind. ārmaʹtiš*  
 ‘(the words) which I want to pronounce, [if they (are) indeed true in this manner], (then, clearly), by (her) actions, Ārmaiti is \*thickening Order’ (Y. 44.6);

[*yezi a0ā stā-pres. ind. ha'0īm*] *mazdā* . . .  
*aṭ taṭ mōi daxštəm dātā-imp.*  
 'if you are (all) truly in that way], O Mazdā . . .  
 then make that a \*(permanent?) mark for me!' (Y. 34.6);

[*yezi adāiš ašā drujəm vəṅgha'tī-aor.-subj.*] . . .  
*aṭ tōi sauuāiš vahməm vaxšaṭ-aor.-subj. ahurā*  
 'if he shall indeed overcome the Lie with (his) . . ., by his Order] . . .  
 then he will magnify (his) hymn with life-giving strengths for you, O Ahura'  
 (Y. 48.1).

#### 8.2.4.2 Conditional clauses in Young Avestan

##### 8.2.4.2a *yezi-clauses: simple conditions*

These take the present indicative or subjunctive and the perfect indicative in 'if ever' conditions:

[*yezi vaši-pres. ind. . . . auuā tbaēšā ta'ruuaiiō*] . . .  
*a0a imā nāmənīš . . . fra.mrauua-pres. imp.* (thematic form)  
 'if you wish to overcome yon hostilities] . . .  
 then say forth these names!' (Yt. 1.10–11);

*yā ahurahe \*xšaiaṇtō dašinqm upa yu'diie'nti-pres. ind.*  
 [*yezi aēm bauua'ti-pres. ind. ašauua-xšnus*]  
 ' . . . who fight at the right side of the ruling lord  
 [if (= whenever) he satisfies the Orderly ones]' (Yt. 13.63);

*hazaṅrəm azəm tē zao0ranqm . . . barāni-pres. subj.*  
 [*yezi jum (<juṇam) frapaieni-pres. subj. aoi zqm*]  
 'I shall bring you a thousand libations . . .  
 [if I reach alive the earth]' (Yt. 5.63);

[*yezi 0βā diduuaēša-perf. ind.*] . . .  
*ā tē aṅhe fra-ca stuiie-pres. ind.*  
 'if I have (ever) antagonised you,  
 for this I am assigning myself by my praise (*ā-stuiie*?) to you and utter your praise  
 (*fra-stuiie*)' (Y. 1.21).

Alternate conditions are expressed by *yezi . . . nauuāt* 'if . . . or if not':

[*yezi taṭ yaiiata-perf. ind. nauuāt taṭ yaiiata-perf. ind.*]  
 'if he has taken up his position or not taken up his position] . . .' (Āfr. 3.3).

##### 8.2.4.2b *yezi-clauses: hypothetical conditions*

These take the optative in the protasis:

[*yezi-ca hō nā pa'ti.hiṅcōiṭ-pres. opt.*] *yō* . . .  
*ku0a aētaṭ druxš pər'nā'te-pres. subj. (aētaṭ druxš for aētqm drujim)*  
 'and if that man were to pour] who is . . .  
 how shall he overcome this lie-demon?' (V. 9.47).

8.2.4.2c *Conditions contrary to fact*

Conditions contrary to fact (irrealis) take the perfect or present optative in the protasis and the perfect optative in the apodosis:

[*ye'di zī azəm nōiṭ da'diiqm-perf. opt. . . . aom stārəm*] . . .  
*hāu pa'rika . . . aṅhuuqm auua.hisiḍiāṭ-perf. opt.*  
 '[for if I had not set in place yonder star] . . .  
 (then) . . . that witch would have cut off the \*thread of life' (Yt. 8.52–54);

[*ye'di zī mā mašiiāka . . . yazaiiaṅta-pres. opt.*] . . .  
*frā \*nuruiiō ašauuaoiīō . . . šušuiqm-perf. opt.*  
 '[for if men were to sacrifice to me],  
 (then) I would have gone forth for the Orderly men' (Yt. 8.11).

See also section 8.2.2.6 Conditional relative clauses.

8.2.4.2d *yaṭ-clauses*

In Young Avestan, conditional *yaṭ*-clauses are sometimes difficult to distinguish from temporal clauses:

[*yaṭ anusō vi'fiē'ti-pres. ind.*] . . . *kā hē asti ciṭa*  
 '[if/when someone is bugged unwillingly], what is the penalty for that?' (V. 8.26);

[*yaṭ ahmi nnāne . . . nā'rika daxštauuā'ti aṅhaṭ-pres. subj.*]  
 '[if/when in this house a woman becomes menstruant]' (V. 5.59);

*abda-ca iḍa . . . sadaiiāṭ-pres. subj.*  
*yaṭ iḍa pasēuš anumaiēhe paḍəm vaēnā'te-pres. subj.*  
 'and wondrous it will seem  
 [if the footprint of a sheep should be seen here]' (V. 2.24).

8.2.4.2e *Periphrasis with present participle*

Presumably because not all verbs had perfect optative forms, a periphrasis was used consisting of a present participle feminine accusative [!] + perfect optative of 'to be':

[*yezi-ca aēte nasāuuō . . . nasuš narəm āstāraiiēntim aṅhāṭ-perf opt.*]  
*išar<sup>o</sup>.štā'tiia mē vīspō aṅhuš astuuā . . .* (no verb)  
 'and if these corpses . . . (if this) corpse would have rendered a man guilty,  
 then, pronto, my entire bony existence (would be . . .)' (V. 5.4).

8.2.4.3 *Conditional clauses in Old Persian*

In Old Persian, only the future condition type is attested:

*yadiy imām dipim vaināḥay-pres. subj. imai-vā patikarā]*  
 '[if you see this inscription or these images], (then) . . .]' (DB 4.72–73).

See also section 8.2.2.6 Conditional relative clauses.

## 9 LEXIS

### 9.1 Word formation

Words can be derived in a variety of manners: by prefixes and suffixes and by composition, of which the following is a selection.

#### 9.1.1 Derivation

##### 9.1.1.1 Suffixes

Among the more common, even productive, Old Iranian suffixes are the following:

*-a-*: Among its many uses, this suffix makes adjectives from nouns (including derived nouns and compounds), often accompanied by full or lengthened grade of the first syllable (*vriiddhi*); when the first syllable has a long vowel, the adjective will be identical with the noun from which it is derived: Av. *maniiuuua-* ‘belonging in the other world’ < *maniiu-*; *haozq0βa-* ‘being of good lineage’ < *huzaqntu-* ‘of good lineage’; *āpa-* ‘waterlogged’ < *āp-* ‘water’; *upa<sup>ri</sup>-z<sup>ma</sup>-* ‘who live upon the earth’ < *zam-*; *hazaqrō.zima-* ‘a thousand-year period’ < *ziam-*; – OPers. *<sup>h</sup>uvāipašiya-* ‘own’ < *<sup>h</sup>uvaipašiya-* ‘self’; *mārgava-* ‘person from Margiana’ < *margu-* ‘Margiana’; *pārsa* ‘Persian’ < *pārsa* ‘Persia’.

*-i-, -ja-*: The suffix *-i-* and its thematicised form *-ja-* are used to form adjectives denoting various kinds of appurtenance, notably geographical; they are often accompanied by lengthened grade in the first syllable (*vriiddhi*): YAv. *āhū<sup>ri</sup>-* ‘pertaining to/ belonging to Ahura (Mazdā); *hāuuani-* ‘(time of day) pertaining to the haoma pressing (*hauuana-*)’; *vār<sup>o</sup>Orayni-* ‘victorious’ < *vār<sup>o</sup>Orayna-* ‘victory, god of victory’; – OPers. *bāgayādi-* month name < *baga-* ‘god’ + *yāda-*, cf. *yada-* ‘to sacrifice’; – YAv. *ra0βiia-* ‘according to the *ratu*’; *tūr<sup>ri</sup>ia-* ‘Turian’ < *tura-* ‘id.’; *hupa0man<sup>ia</sup>-* ‘the fact of having good flights (*\*pa0man-*)’; – OPers. *māniya-* ‘(servant?) belonging to one’s house (*māna-*)’; *0anuvaniya-* ‘connected with/using a bow (< *0anuarln-*)’; *a0uriya-* ‘Assyrian’ < *a0urā-* ‘Assyria’, *maciya-* ‘Makranian’ < *maka-* ‘Makran’. – A special use of this suffix is to denote someone in charge of: YAv. *pasuš.hasti-*, sb. in charge of, owner of the sheep-pen (*pasuš.hasta-*). – The suffix *-i-* is also used to make patronymics: Av. *zara0uštri-* ‘son/ follower of Zarathustra (*zara0uštra-*)’; also *-āna-*, *-āni-*: YAv. *jāmāspana-* ‘son of Jāmāspa’; *ā0βiūāni-* ‘son of *Ā0βiūā*’.

*-ka-, -aka-*: This is the most productive suffix in Iranian, but is still relatively rare in Avestan and Old Persian: YAv. *ja<sup>n</sup>ikā-* < *ja<sup>n</sup>i-* ‘woman’; *mašiiāka-* > *mašiiā-* ‘man, mortal’; *pasuka-* ‘sheep and goats’ < *pasu-*; *apər<sup>o</sup>nāiūka-* = *apər<sup>o</sup>nāiū-* ‘minor child’ (< *apər<sup>o</sup>na-āiū-* ‘who has not filled his age’); – OPers. *vazarka-* < *vazarln-* ‘greatness’; *arštika-* (or *ārštika-*) ‘spear-man’ < *\*čršti-* ‘spear’; *kaṛnuvaka-* ‘workman, artisan’ < *kaṛnu-* ‘do, make’.

*-na-, -ana-*: These suffixes produce various kinds of nouns and adjectives from verb roots: Av. *yasna-* ‘sacrifice’ < *yaz-*; *x<sup>o</sup>afna-* ‘sleep’ < *x<sup>o</sup>ap-*; *hañjamana-* ‘assembly, gathering’ < *ham-gam-* ‘come together’; *pacina-* ‘cooked meal’ < *pac-* ‘cook’; – OPers. *stāna-*, *stāna-* ‘place (for . . .)’ < *stā-*; *āvahana-* ‘settlement, town’ < *ā-vah-*; *draušana-* ‘liar, deceiver’ < *drau-*; *hamarana-* ‘battle’ < *ham-ar-* ‘form ordered (battle) lines’.

*-uant- (-mant- after u)*: This is a very common suffix meaning ‘full of, containing’: OAv. *aojōñhuuant-* ‘strong’ (< *aojah-uant-*); – YAv. *xratu-mant-* ‘wise’.

*-tāt-*: This is a productive suffix making abstract nouns from adjectives. It is also used to ‘quote’ or refer to words: Av. *ha<sup>o</sup>ruua-tāt-* ‘wholeness’ < *ha<sup>o</sup>ruua-*; *upara-tāt-* ‘superiority’; OAv. *kəuuī-tāt-* ‘being a *kauuī*, the word *kauuī*’ (cf. abstract suffix MPers.

-īh, Ch. 4, section 6.1.2.1); YAv. *yauuaē-tāt-* ‘that which is *yauuaē* “forever”’; *riθiiqs-tāt-* ‘fact of being *riθiiant-* “dying” (mortal)’. In Old Persian, this suffix may have been replaced by *-tā-* (OPers. *arš-tā-* vs. YAv. *arš-tāt-* ‘rectitude’).

### 9.1.1.2 Prefixation

Some prefixes are also preverbs, others are used with nominal forms only.

#### 9.1.1.2a Preverbs used as prefixes

Preverbs used as prefixes typically have slightly different meanings from those of the preverbs, e.g.:

*apa* ‘in the back, backward’ (preverb: ‘back, backward’): *apa-kauua-* ‘with hump in the back, humpback’;

*fra* ‘in front’ (preverb: ‘forward, forth’): *fra-bāzu-* ‘(the length of) the arm held forward’, *fra-xšnu-* ‘with knees sticking out, knobby-kneed’;

*vī* ‘to the side(s), away’ (preverb: ‘to the sides, far and wide’): *vī-bāzu-* ‘(the length of) the arms held to the sides’, *vī-daēuua-* ‘keeping the demons away, discarding the demons’, *vī-xrūmañt-* ‘(a blow) that causes blood to flow out’.

#### 9.1.1.2b Nominal prefixes

Exclusively nominal prefixes include:

*a-* (*an-* before vowel) ‘not, non-, lacking’, used to negate nouns and adjectives (including those made from verbs) and to make adjectives meaning ‘lacking sth.’: OAv. *a-drujiiant-* ‘non-deceiving’, YAv. *an-ašauuan-* ‘not Orderly’, *ə-uūista-*, *ə-uūisti-* ‘unfound; lack of finding’ (*a-* + *vista-lvisti-*), *a-ḡhaošəmma-* ‘not drying out’, *a-karana-* ‘limitless’;

*hu-* ‘good’ and *duš-*, *duž-* ‘bad, evil’: OAv. *hu-šiti-* ‘good dwelling’, *dušiti-* ‘bad dwelling’ (<*duš-š<sup>o</sup>*), *x<sup>v</sup>-īti-* ‘good/easy going’ (<*hu-iti-*), *duž-iti-* ‘bad/difficult going’; *hu-mata-* ‘well thought’; OPers. *<sup>h</sup>uv-asa-* ‘having good horses’ (<*hu-asa-*); *duš-<sup>i</sup>yāra-* ‘bad season, famine’.

### 9.1.2 Compounding

Compounds, as well as their individual elements, can be all kinds of words (nouns, adjectives, adverbs, other compounds): YAv. *daḡhu-pa’ti-* ‘landlord’, *və<sup>r</sup>0ra-jan-* ‘obstruction-smasher’; – OPers. *daiva-dāna-* ‘idol-repository’; *tigra-xauda-* ‘pointed-hat = wearing pointed hat’, *hamarana-kara-* ‘battle-doer = battle-fighter’.

Possessive adjectival compounds (*bahuvrīhi*) are especially common: *bar<sup>o</sup>smō.zasta-* ‘barsom-hand = with barsom in the hand’, *hu-xša0ra-* ‘having good command’.

If one member of the compound is a word that usually contains two parts, only one part can normally be used in the compound: *ahura-δāta-* ‘Ahura-placed = set in place by Ahura Mazdā’, *mazda-iiasna-* ‘Mazdā-sacrifice = someone who sacrifices to Ahura Mazdā; compounds consisting of more than two members are probably not of an inherited type: YAv. [*draoγō.vāxš*].*draojišta-* ‘who lies [with lying words] the most’.

#### 9.1.2.1 Form of first and second members of compounds

The final vowel of the first member usually becomes *ō*, whether it as an *a-*, *ā-*, or *an-*stem or an invariable in *-a*: *daēuuō.dāta-* ‘demon-established’ (<*daēuua-*), *zruuō.dāta-* ‘time-

established (< *zruuan-*); *haptō.karšuuā'rī-* '(the earth) having seven continents (< *hapta* 'seven').

Some adjectives use an *i*-stem as the first member of a compound, e.g. *xšuiβi.išu-* '(shooting) vibrating/fast arrows' (< *xšuiβra-* 'vibrating'), *bər<sup>3</sup>zi.gāōra-* 'with loud singing' (< *bər<sup>3</sup>zant-* 'high, loud').

Nouns as second members of compounds are sometimes in the zero grade, e.g. *frādaḡ.fšu-* 'cattle-furthering' (< *pasu-* 'sheep and goats'), *ər<sup>3</sup>duua-fšnī-* 'with high bosom' (< *fštāna-* 'breat'), *spitāma-* 'with fattened (increased) strength' < \**spīta-Hma-* < *ama-*).

Sometimes, the first member of a compound is in a case form:

- nom.: YAv. *afš.tacin-* '(mountains) where water flows' (< *āfš* 'water' nom. sing.), *kər<sup>3</sup>fš.x<sup>3</sup>ar-* 'body-eating, carrion (bird)' (< *kṛp-š<sup>3</sup>uar-* < *h<sup>3</sup>ar-?*);
- acc.: OAv. *ahūm.biš-* 'world-healer', *vər<sup>3</sup>ōrēm.jan-* 'obstruction-smasher'; YAv. *ašəm.stut-* 'praising Order';
- gen.: *z<sup>3</sup>mas.ciōra-* 'earth-seed, having the seed of the earth';
- dat.: *yauuāē-sū-* 'forever benefiting';
- loc.: YAv. *mā<sup>3</sup>diūdi.šad-* 'sitting in the middle'.

#### 9.1.2.2 Adverbial *āmreḡita* compounds

The so-called *āmreḡita* compounds are adverbial phrases consisting of repeated words: OAv. *narēm narēm* 'man after man'; YAv. *nmāne nmāne* 'in house after house'.

#### 9.1.2.3 'Dual' or 'open *dvandvas*'

These denote a pair consisting of two different objects, which may be singular, e.g. 'firewood and incense', 'Frašaoštra and Jāmāspa', or (generic) plural, e.g. 'cattle and men'. In these expressions both nouns are in the dual, so that the expression looks like '2 firewoods, 2 incenses', etc.: OAv. *gāuuā azī* 'a bull and a (fertile) cow'; YAv. *āpa uruuā're* 'waters and plants', *saḡhauuāci ar<sup>3</sup>nauuāci* 'the two (sisters) Saḡhauuāci and Arnauuāci'.

If one of the items consists of two words, one word is usually dropped: *mīōra ahura* 'Miōra and Ahura (Mazdā)', *ahuna \*a<sup>3</sup>rīiamana* 'the (prayers) Ahuna (*Vairīia*) and *Airiīaman* (*Išūō*)'.

## 10 STYLISTIC FEATURES

Both in the Old Avestan complex metres and in the Young Avestan octosyllabic metre, syntactic units are frequently confined within a metrical unit, but clauses commonly continue through several units.

### 10.1 Old Avestan poetic word order

The Gathic metre is characterised by strophes divided into 3–5 metrical units ('verse-lines' . . . / . . .) split into two smaller units ('half-lines') by a caesura (. . . # . . .).

The most common departure from 'normal' word order involves the splitting up of small syntactic units, for instance, the separation of determinants from their nouns:

noun + adj.:

[*gāuš*] *vər<sup>3</sup>zēnē* [*aziiā*]

'[cow] in \*household [fertile]' = 'in the \*household of the fertile cow' (Y. 34.14);

[*ahurō*] *vaēdā* / [*mazdā*]  
 ‘[Ahura] knows [Mazdā]’ = ‘Ahura Mazda knows’ (Y. 31.2);

adj./pron. + noun:

[*0βahmī*] *mazdā* [*vīci0ōi*]  
 ‘[your] Mazda [in discrimination]’ = ‘in *your* discrimination, O Mazda’ (Y. 32.8);

noun + gen.:

[*ratūm*] *ahurō vaēdā* / *mazdā* [*aiiā qsaiiā*]  
 ‘[model] Ahura knows Mazda [of these two premiums]’ = ‘Ahura Mazda knows the model of these two premiums’ (Y. 31.2).

Often a small syntactic unit, such as noun + adjective/genitive, verb + direct object, or even preverb + verb, is split between two half-lines or lines, especially in *Gā0ās* 2–3, which have first ‘half-lines’ of only four syllables. The split can take various forms: the terms can remain adjacent to one another, occupy parallel positions, be mirrored, or other; and they can be split between half-lines or verse-lines (enjambement).

Split between half-lines:

*adā tašā gōuš* [*pər<sup>3</sup>saṭ* # *ašəm*]  
 ‘then the fashioner of the cow [asks # Order]’ (Y. 29.2);

*hiiaṭ dā0ōṅg vī* # *caia0ā adā0qs-cā*  
 ‘so that you can [dis # criminate] (between those) who are according to the rules and those who are not’ (Y. 46.15).

Enjambement:

*maibiiō dāuuōi* [*aluuā* # . . . / *āiaptā*]  
 ‘for (you) to give to me [of the two existences # . . . / the spoils]’ (Y. 28.2).

‘Inverse enjambement’ (new clause – or smaller syntactic unit – begins with a single word at the end of a verse-line):

*xšiiō* / *darəgēm āiiū təmaṅhō*  
 ‘lamentations, / a long lifespan of darkness’ (Y. 31.20);

*vahištā* / *gauuōi vər<sup>3</sup>ziātqm*  
 ‘let the best (things/pastures) be produced for the cow!’ (Y. 48.5).

## 10.2 Parallelism and chiasmus

Sequences of similar groups of words can be arranged in parallel ( $A_1, B_1, A_2, B_2$ ) or chiasmically ( $A_1, B_1, B_2, A_2$ ).

### 10.2.1 Parallelism

Parallelism occurs within or between metrical units ( $A_1 \dots B_1 // A_2 \dots B_2$ , etc.) and is found in all three languages:



OAv. [kaṭ] vō {xšaθrəm} [kā] {ištiš} #  
 ‘what (is) your command? what (is your) wish?’ (Y. 34.5);

yāsā . . . / [maniīduš] . . . {pa<sup>h</sup>ruuīm} # [spəntahiī] . . . {vīspəng}  
 ‘I ask [of inspiration] . . . {the first} # [life-giving] . . . {all}’ = ‘I ask (you) all for the first (existence) of the life-giving inspiration’ (Y. 28.1);

hiiaṭ [hōm] {vohū} # . . . [fraštā] {manaḡhā}  
 ‘when [con-] {with good} # [sulted] {thought}’ ‘when he has consulted with (his) good thought’ (Y. 47.3);

YAv. [xrūmīm] {gāuš yā caḡraḡhāxš} / [varā<sup>h</sup>θim paṅtəm] {aza<sup>h</sup>te}  
 ‘[bloody] {cow the grazing} / [of captivity road] {is driven}’ = ‘the grazing cow is driven along the bloody road (the road which makes her bleed) of captivity’ (Yt. 10.38);

OPers. utā [avam vahayazdātam] {agčrbāya<sup>h</sup>} utā [martiyā] . . . {agčrbāya<sup>h</sup>}  
 ‘and [Vahayazdāta] {they seized} and [the men] {they seized}’ = ‘and they seized that Vahayazdāta, and they seized the men’ (DB 3.47-49).

### 10.2.2 Chiasmus

In this case, the elements of parallel phrases are arranged in opposite order, ‘crossed’, as it were.

Verb + predicate/direct object, predicate/direct object + verb:

OAv. [ahmī] . . . {anaēšō / . . . kamnānā} [ahmī]  
 ‘[I am] {weak . . . / few-menn’ed} [I am]’ = ‘I am weak and have few men’ (Y. 46.2).

Adjective/genitive + noun vs. noun + adjective/genitive:

OAv. kū [spəntā] {ārmā<sup>h</sup>tiš} / kuθrā {manō} [vahištəm] ‘where (is) [life-giving] {Humility}? / where (is) {thought} [the best]?’ (Y. 51.4).

### 10.2.3 Combined parallelism and chiasmus

OAv. {amər<sup>h</sup>tātā ha<sup>h</sup>ruuātā} # [spəništā <maniīū>] . . . /  
 {təuīšī utaiī<sup>h</sup>tī} # [ <manaḡhā> vohū]  
 ‘(give me) {immortality and wholeness} [by (your) most life-giving <inspiration>],  
 {\*tension and \*texture} [by (your?) <thought> the good]’ (Y. 51.7).

## 10.3 Ellipsis in Old Avestan poetry

The omission of key words, mostly verbs, is one of the most intriguing, frustrating, and tantalising aspects of the Old Avestan poetry. The omitted words can sometimes be supplied from the context itself, but very often they must be supplied from the larger context of the poet-sacrificer’s world, as manifested elsewhere in his poetry. If the omitted word is to be supplied from a still more general context, we cannot do it.

Repeated verb:

*aṭ kəhrpəṃ utaiiṽtiš dadāṭ*

*ārma'tiš qnmā*

‘thus, \*texture **gives** (him) form,

Humility (the earth) (gives him) breathing’ (Y. 30.7);

*yas-tā maṇtā pa'ruiiō . . . /*

*huuō xraθβā . . . ašəm*

‘(he) who **thought** those (thoughts) the first . . . /

he, by (his) wisdom, (thought [= produced by his thought]) Order’ (Y. 31.7), cf.

*yō maṇtā ašəm*

‘(he) who thought Order’ (Y. 31.19).

Repeated noun and verb:

*kaṭ tōi ašā zbaiēntē auuaghō /*

*. . . kaṭ tōi vohū managhā*

‘What **help** do you have for him **when he invokes** (you) with Order?

What (help) do you have (for him when he invokes you?) with good thought?’

(Y. 49.12).

Close context:

*nū īm vīspā # ciθrē zī mazdāṅhō.dūm /*

*nōiṭ d<sup>ai</sup>bitīm # duš.sastiš ahūm mər<sup>ai</sup>šiiāṭ*

‘now, all, pay attention to *it* (*sēnghəm* ‘the (good) announcement?’), for it (is)

brilliant!

let not a second time the one of bad **announcements** destroy the existence!’ (Y. 45.1),

cf.

*nī hīm mər<sup>ai</sup>ždiiāi θbahiiā maθrāiš sēnghahiiā*

‘in order for it (the Lie) to be wiped out by the (poetic) thoughts of your

**announcement**’ (Y. 44.14).

#### 10.4 Formulaic diction in Old Persian

Old Persian prose is characterised by several of the features described above for Avestan.

Word order variation:

*avaθā-šaiy aθaham paraidiy [avam kāram jadiy] {haya manā naiy gaubataiy}*

‘thus I said to him: “go forth! [crush that army] {which does not call itself mine}!”’

(DB 3.14–15),

vs.

*avaθā-šaiy aθaham paraidiy [kāra] {haya hamiçiya manā naiy gaubataiy} [avam*

*jadiy]*

‘thus I said to him: ‘go forth! {that conspiratorial [army] which does not call itself mine}, [crush it]!’ (DB 2.30–31).

Same formula, different syntax:

*ima taya adam akunavam [vašnā auramazdāha] {hamahayāyā θarda}*

*pasāva yaθā xšāyaθiya abavam*

‘this (is) what I did [by the greatness of Ahuramazdā] {in one and the same year} after I became king’ (DB 4.3–5),

vs.

*ima taya adam akunavam [vašnā auramazdāha] {hamahayāyā 0arda} akunavam*  
 ‘this which I did – [by the greatness of Ahuramazdā] – I did (it) {in one and the same year}’ (DB 4.40–41).

### 10.5 Figura etymologica

This is one of the most common stylistic features especially of Young Avestan and Old Persian and is found in a large variety of forms.

Noun + noun:

YAv. *baēuuar<sup>3</sup> dōiθranqm vīdōiθre*

‘ten thousand **eyes** for the one whose **eyes** see far and wide’ (Yt. 10.82);

*cīm haxa haše bara’ti*

‘what does the **friend** carry to the **friend**?’ (Y. 62.8).

With one noun as first or last member of a compound:

*daḡhēuš daḡhu-pa’tiš*

‘the **landlord** of the **land**’ (Yt. 10.83);

*ahmāi darəyqm dar<sup>3</sup>γō.jīlīm* ‘(give) to him **long longevity**’ (Y. 68.11);

*šōiθrō.baxtā vī.baxšā’ti*

‘he **distributes** (the waters) **distributed** by settlements’ (Yt. 8.34).

Noun + adjective:

YAv. *ama ahmi amauuastəmō*

‘in **force** I am the most **forceful**’ (Yt. 14.3).

Noun + verb:

YAv. *yānəm vō yāsāmi*

‘I am **requesting from** you a **request**’ (Y. 65.11);

*fšōhš . . . pa’ti auua.pašāḡ*

‘one shall **\*nail** (him) with **\*nails**’ (V. 4.51).

With suppletive forms:

YAv. *cīm aētaiia paīti. vaca paītiāmraoḡ*

‘\*what did he **answer** by this **answer**?’ (Y. 21.4).

Verb + past participle:

YAv. *haθra.taršta θrāḡhaiiete*

‘he **frightens** them (so that they are) **frightened** then and there’ (Yt. 10.101);

*yō hišta’tē maniiu.stātō*

‘(the sky) which **stands stood** in the world of thought’ (Yt. 13.2);

OPers. *haya vināθayatiy anu-dim vinastahayā avaθā parsāmiy*

‘he who **does harm**, according to **the harm done**, I punish him’ (DNb 25–26).

Note especially expressions for ‘doing/treating well/badly’, etc.:

YAv. *ya0a hu-bər'tō harāte*

‘when he is **carried well-carried** = well treated’ (Yt. 10.112);

OPers. *avam<sup>h</sup>u-bartam abaram . . .*

*avam<sup>h</sup>u-frastam aparsam*

‘him I **carried well-carried** (= treated well) . . .

him I **asked well-asked** (= punished well)’ (DBI.20–22);

*taya duš-kartam akariya* ‘

‘that which was **done badly-done** = had been done badly’ (XPh 42–43).

## 11 SAMPLE TEXTS

### 11.1 Old Avestan

*Yasna* 28 is the first poem of the first *Gā0ā* (the *Ahunauuđtī Gā0ā*) and follows the *Ahuna vairiia*, which is the introductory strophe to the entire collection. The metre of the *Ahunauuđtī Gā0ā* is relatively free compared to those of the other *Gā0ās*: strophes contain three ‘verse-lines’ divided into two ‘half-lines’, the first of which, with few exceptions, has seven syllables, while the second varies, mostly between 7 to 9 syllables, but some more or less.

#### Y. 28.6

<i>voḥū ga'dī manañhā dā'dī aṣā dā (da 0) dar'gāiū</i>	7 + 9
<i>ər'šuuāiš tū uxđāiš mazdā zara0uštrāi aojō ḡhuuat raf'nō</i>	7 + 9
<i>ahma'biīā-cā ahurā yā d<sup>m</sup>bišuuatō duuaēšā ta<sup>m</sup>ruuāiāma</i>	7 + 10

Come with (your)/on account of (my) good thought! Give through (your)/on account of (my) Order the gift which bestows a long life span!

By (your) capacious utterances you, O Mazdā, (gave) support with strength to Zarathustra.

(So) give to us, too, O Ahura, (support) by which we shall overcome the hostilities of the one hostile (to us = the lord of darkness)!

#### Y. 28.6a

*voḥū* < *uahu-ū* (< *uahu-H*) ‘good’: *u*-stem adj., instr. sing. neut.

*ga'dī* < *ga-di* (< *gṃ-di*) ‘come!’: root aor. imper. 2s act.; pres. stem. *jasā-* < *jaća-* for *gaća-* < *gṃ-ća-* < *gam-ljam-* ‘to go, come’.

*manañhā* < *man-ah-ā* ‘thought’: *ah*-stem neut., instr. sing.; < *man-* ‘to think’, cf. *manju-* (Y. 28.11c).

*dā'dī* < *dā-di* ‘give!’: root aor. imper. 2s act.; pres. stem. *dadā-* < *dā-* (< *daH-*) ‘to give’.

*aṣā* < *art-ā* ‘Order’: *a*-stem neut. instr. sing.; < *r-* ‘to fit (together)’: the Av. form *aṣā-* appears to be from < *árta-*, rather than *rtá-* (= OInd.); the meaning in the Avesta is ‘cosmic/ritual order’, never ‘truth’.

*dā* < *da 0* < *dā-ah* (< *daHah*) ‘gift’: *ah*-stem neut., acc. sing.; < *dā-* ‘to give’.

*dar'gāiū* < *dargāju* (< *dṛHga + Hju*) ‘which bestows a long life span’: *u*-stem adj., acc. neut. sing.; adjectival compound < *darga-* ‘long’ + *ju-* < *u*-stem *āju-* *l̥ju-* *l̥ju-* (*Hāju-* *l̥ju-* *Hju-* ‘time, life span, age’.

Y. 28.6b

*ər<sup>o</sup>šuuāiš* < *ṛšy-āiš*: ‘capacious’: *a*-stem adj., instr. plur. neut.

*tū* < *tū* ‘you’: pers. pron. 2s, nom. enclitic; tonic *tuuam* (see Y. 28.11b).

*uxδāiš* < *uxθ-āiš* ‘utterance’: *a*-stem neut., instr. plur.; < *vak-/ vač-* ‘speak’ (cf. Y. 28.11b).

*mazdā* (< *mazd<sup>h</sup>aH*): ‘who places (all) in the mind, the all-knowing one’: masc. *ā*-stem (*aH*-stem), voc. sing.; adjectival compound < *mas* (< *mṛs*) ‘mind’ + *dā-* (< *d<sup>h</sup>aH-*) ‘to place’.

*zaraθuštrāi* < *ǰaraθuštr-āi* ‘to Zarathustra’: *a*-stem proper name, dat. sing.; adjectival compound < *zarat*-(?) ‘old(?)’ + *uštra-* ‘camel’; cf. *frašaoštra-* (see Y. 28.8b).

*aojōṭhhuuaj* < *auǰah-ujat* (< *auǰah-ujnt*) ‘strong’: *ujant*-stem adj., acc. sing. neut.; < *auǰah-* ‘(bodily) strength’.

*raf<sup>o</sup>nō* < *rafn-ah* ‘support’: *ah*-stem neut., acc. sing.; < *rap-* ‘to support’.

Y. 28.6c

*ahma<sup>i</sup>biiā<sup>o</sup>* < *ahma-bja* ‘to us’: pers. pron. 1p dat.-abl.; obl. stem *ah-ma-* < *ṇh-*, cf. *nā* < *nah* ‘us’ (gen.-dat. enclitic).

*-ča* ‘and, too’: enclitic.

*ahur-ā* ‘lord’: *a*-stem, voc. sing.

*yā* < *ǰ-ā*: rel. pron., instr. sing. neut.

*d<sup>ai</sup>bišuuatō* < *dūiš-ujat-ah* (< *-ujnt-ah*) ‘hostile’: *ujant*-stem adj., gen. sing. masc.; < root noun *dūiš-* ‘hostility’.

*duuaēšā* < *dūaiš-āh* ‘hostility’: *ah*-stem neut., acc. plur.; < *dūiš-* ‘be hostile’; note *figura etymologica*.

*ta<sup>o</sup>ruuāiāma* < *taru-aiā-ma* (*trHua<sup>o</sup>*) ‘we shall overcome’: *aiā*-stem pres. subj. 1p; < *tar-* (< *tarH-*) ‘to pass over, cross’, cf. OInd. *tūrva-* < *trHua-*.

Y. 28.8

<i>vahištəm</i>	<i>θβā</i>	<i>vahištā</i>	<i>yām ašā</i>	<i>vahištā hazaošəm</i>	7 + 9		
<i>ahurəm</i>	<i>yāsā</i>	<i>vāunuš</i>	<i>narōi f<sup>o</sup>rašaoštrāi</i>	(-ao- = -a-u-)	<i>ma<sup>i</sup>biiācā</i>	7 + 9	
<i>yae<sup>i</sup>biias-cā</i>	<i>ū</i>	<i>rāṇhaṇhōi</i>	<i>vīspāi</i>	<i>yaoē</i>	<i>vaṇhēuš</i>	<i>manaṇhō</i>	7 + 9

You the best, (I ask) for the best (things), (the one) whom (I know) has the same taste as best Order,

(you), the Ahura, I ask, (once) having won, for the hero Fraša-uštra and for me, and (for those) to whom you shall give it for the entire life span(?) of (someone of) good thought (or: time span of good thought?).

Y. 28.8a

*vahištəm* < *u<sup>h</sup>ah-išt-am* < *u<sup>h</sup>ah-u-*: superl. acc. sing. masc.

*θβā* < *θu-ā*: pers. pron. 2s, acc. enclitic.

*vahištā* < *u<sup>h</sup>ah+išt-ā* ‘best (things)’: acc. plur. neut.

*yām* < *ǰ-am*: rel. pron. acc. sing. masc.

*vahištā* < *u<sup>h</sup>ah+išt-ā*: instr. sing. neut.

*hazaošəm* < *ha-ǰauš-am* ‘having the same taste (as)’ + instr.: *a*-stem adj., acc. sing. masc.; adjectival compound < *ha-* (< *hṛ-*) ‘same’ + *ǰauša-* ‘taste’.

## Y. 28.8b

*ahurəm* < *ahur-am*: acc. sing. masc.  
*yāsā* < *iāc-ā* ‘ask for, request’: *a*-stem pres. ind. 1s; < *iā-sca* < *iā*-.  
*vāunuš* < *uā-un-u-š* ‘winner’: *u*-stem adj., nom. sing. masc.; adjectival derivative of the  
perf. stem *uā-un-* < *uan-* ‘to win’.  
*narōi* < *nar-ai* < *nar-* ‘man’: *r*-stem masc., dat. sing.  
*f<sup>o</sup>rašaoštrāi* < *fraša-uštr-āi*: *a*-stem proper name, dat. sing. masc.; adjectival compound  
< *fraša-* ‘fat’ + *uštra-* ‘camel’.  
*ma<sup>h</sup>biā* < *ma-bja*: pers. pron. 1s dat.; cf. OInd. *mahya-m*.

## Y. 28.8c

*yaē<sup>h</sup>būias<sup>o</sup>* < *i-ai-bjas<sup>o</sup>*: rel. pron., dat.-abl. plur. masc.  
*ū* < *i-t*: pers. pron. 3s acc. neut., referring to ‘best things’ neut. plur.  
*rāyhaṅhōi* < *rāh-a-hai* ‘you shall give’: *s*-aor. subj. 2s mid.; < *rā-* ‘to give’.  
*vīspāi* < *uicū-āi* ‘all’: *a*-stem pronominal adj., dat. sing. neut.  
*yaoē* < *iay-ai* < *āju-* (see Y. 28.6a) ‘time, life span’: *u*-stem neut., dat. sing.  
*vaṅhāuš* < *uāh-au-š* < *uāhu-* (see Y. 28.6a): gen.-abl. sing.  
*manahō* < *man-ah-ah* (see Y. 28.6a): gen.-abl. sing.

The three times repeated *vahišta-* ‘best’ leads up to *vahu- manah-* ‘good thought’ (the divine inspiration, the new sunlit sky, . . .), as the desired result of the ritual; it alliterates with *vaunu-*, implying victory over the forces of darkness. The mention of *fraša-uštra-* alludes to Ahura Mazda’s reward: making the new existence *fraša-* ‘filled with the juices of fertility and life’.

## Y. 28.9

<i>anāiš vā nōiṭ ahurā mazdā ašəm-cā yānāiš zar<sup>a</sup>naēmā</i>	7 + 10
<i>manas-cā hiiaṭ vahištəm yōi vō yōi<sup>o</sup>mā das<sup>o</sup>mē stutqm</i>	7 + 9
<i>yūžəm zəuuištiiāṅhō īšō xšaθrəm-cā sauuanḡqm</i>	7 + 9

May we not anger you (pl.), O Ahura Mazda, and Order with those requests (to you),  
and (your) best thought, (we) who have taken up (our) positions at the \*fulfillment  
of (our) obligations\* (to you in the form) of praises!  
You are the fastest offerings and the command over the life-giving strengths.

## Y. 28.9a

*anāiš* < *an-āiš* < *ana-* ‘those (addressed to you)’: dem. pron., instr. plur. neut.  
*vā* < *uāh*: pers. pron. 2p acc. enclitic, cf. *vō* (Y. 28.9b).  
*nōiṭ* < *na-it* ‘not’: negation.  
*ašəm* < *art-am* (see Y. 28.6a): acc. sing.  
*yānāiš* < *iān-āiš* ‘request’: *a*-stem neut., instr. plur.; < *iā-* (see Y. 28.8b).  
*zar<sup>a</sup>naēmā* < *jar-na-ī-ma* (< *jar-na-*) ‘may we (not) anger’: *a*-stem pres. opt. 1p;  
thematized from *j<sup>h</sup>ar-nā-lj<sup>h</sup>ar-n-* < *j<sup>h</sup>ar-na-H-lj<sup>h</sup>ar-n-H-* (< *j<sup>h</sup>arH-*), cf. OInd. *hr-ṇ(ī)-*  
mid.

Y. 28.9b

*manas*<sup>o</sup> < *man-ah-* (see Y. 28.6a): acc. sing.  
*hiiaŋ* < *h-i-at*: rel. pron., nom. sing. neut.  
*vahištəm* < *uahišt-am* (see Y. 28.8a): nom. sing. neut.  
*yōi* < *i-ai*: rel. pron. nom. plur. masc.  
*vā* < *uah*: pers. pron. 2p gen.-dat. enclitic, cf. *vā* (Y. 28.9a).  
*yōiθ<sup>3</sup>mā* < *i-a-iθ-ma* ‘we have taken up positions’: perf. ind. 1p act.; < *i-at-*.  
*das<sup>3</sup>mē* < *dačmai* < *dač-ma-* ‘at the fulfillment of obligations’(?): *a*-stem masc., loc. sing.; < *dač-* ‘to fulfill one’s obligations (to give gifts for gifts)’, cf. OInd. *dāś-*.  
*stutqm* < *stut-a’am* < *stu-t-* ‘praise’: root noun masc., gen. plur.; < *stau-lstu-* ‘to praise’.

Y. 28.9c

*yūžəm* < *iūž-am*: pers. pron. 2p nom.  
*zəuuīštūāŋhō* < *jaṃ-ištū-āhah* < *jaṃ-ištū-ia* ‘most enduring’: *a*-stem superl., nom. plur. masc.; cf. *zāuuar<sup>3</sup>* (< *zāu-r*) ‘strength (of endurance)’ (of horses, feet); cf. OInd. *yav-iṣṭh-ya-* ‘youngest’.  
*īšō* < *iš-ah* ‘(ritual) offering’: root noun masc. nom. plur.  
*xšaθrəm* < *xšaθr-am* ‘command’: *a*-stem neut., nom. sing.; < *xšā-* (pres. *xšaja-*) ‘to be in command, rule’.  
*sauuaŋhəm* < *cauH-ah-a’am* ‘life-giving strength’: *ah*-stem neut., gen. plur.; ablauting *sau-ls-pā-* < *cauH-lcauH* ‘swell (with life-giving juices)’; cf. *spənta* (Y.8.3a below).

Y. 28.11

<i>yā aiš ašəm nipāŋhē</i>	<i>manas-cā</i>	<i>vohū</i>	<i>yauuaētā’tē</i>	7 + 9
<i>tuuəm mazdā ahurā</i>	<i>frō mā sīšā</i>	<i>θbahmāŋ</i>	<i>vaocaŋhē</i>	7 + 9
<i>maniišus hacā</i>	<i>θβā</i>	<i>ē<sup>3</sup>ŋhā</i>	<i>yāiš ā aŋhus pa<sup>3</sup>ruiiō bauuaŋ</i>	7 + 9

(You) who with/by these protect your Order and good thought for eternity, you, O Ahura Mazda, teach me to speak according to your inspiration by your mouth (the words/announcements) by which the first existence will be here (every time)!

Y. 28.11a

*yā* < *i-ah*: rel. pron., nom. sing. masc.  
*aiš* < *a-* ‘with them/these’: pers./dem. pron., instr. plur. masc.  
*nipāŋhē* < *ni-pā-hai* ‘you guard’: root pres. ind. 2s mid.; < *pā-* ‘to protect’.  
*vohū* < *uah-u*: acc. sing. neut.  
*yauuaētā’tē* < *iauai-tāt-ai* ‘for that which is for a (full) time/life span, forever’: *tāt*-stem fem., dat. sing.; secondary derivative < *iauai*, dat. of *āiu-liau-* ‘time/life span’ (see Y. 28.6a).

Y. 28.11b

*tuuəm* < *tu-u-am*: pers. pron. 2s nom., cf. *tū* (see Y. 28.6b).  
*frō sīšā* < *fra* *či-* (*ć*)*ša* ‘\*teach’: reduplicated *a*-stem pres. imper. 2s; < *cah-lčš-* (< *caHs-lčHš-*), cf. OInd. *śās-/śikṣa-*.

*mā*: pers. pron. 1s acc. enclitic.

*0βahmāŋt* < *0uā-hm-āt* < *0βa-* ‘your’: poss. pron. 2s abl. sing. masc.

*vaocajhē* < *uā-uč-a-hai* ‘to speak’: inf. of reduplicated *a*-stem aor. *uā-uča-* < *uak/uač-* (cf. Y. 28.6b).

## Y. 28.11c

*maniiēuš* < *manj-ai-š* ‘spirit, inspiration’: *u*-stem masc. abl. sing.; < *man-* ‘to think’, cf. *manah-* (Y. 28.6a); belongs to the other world, ‘that of thought’.

*hacā* < *haca* ‘from, according to’: adpos. + abl.

*0βā* < *0u-ā* < *0uā-* ‘your’: poss. pron. 2s, instr. sing. neut.

*š<sup>u</sup>ajhā* < *āh-ā* ‘mouth’: root noun neut., instr. sing. (see section 2.3.1.2a).

*yāiš* < *j-āiš* < *ja-*: rel. pron., instr. plur. masc./neut.; + gapped noun.

*ā . . . bauuat* < *ā . . . baua-t* < *ā-bau-lbū-* ‘to come about, come into existence(?)’: *a*-stem pres. subj. 3s; < *b<sup>h</sup>au-lb<sup>h</sup>ū-* ‘become’.

*aṅhuš* < *ahu-š* ‘(new) life, (new) world’: *u*-stem masc., nom. sing.

*pa<sup>h</sup>ruiiō* < *parū-ija-h* (< *pr<sup>h</sup>Hu-ja-*) ‘first, primordial’: *a*-stem adj., nom. sing. masc., cf. *parō* ‘before’ < *pr<sup>h</sup>H-ah*, OInd. *puras*.

## Y. 53.8

<i>anāiš ā dužuuar<sup>o</sup>šnaṅhō</i>	<i>dafšniā hēntū</i>	7 + 5	
<i>zaxiiā-cā vīspāṅhō</i>	<i>xraosəntəm upā</i>	7 + 5	
<i>luxšalrāiš jān<sup>o</sup>rəm</i>	<i>xrūr<sup>o</sup>rəm-cā rāmqm-cā</i>	<i>āiš dadātū šii<sup>e</sup>tibiō vīž<sup>o</sup>biiō</i>	8 + 7 + 5
<i>īratū īš duafšō huūō</i>	<i>dər<sup>o</sup>zā mər<sup>o</sup>θiiaoš mazištō</i>	<i>mošu-cā astū</i>	7 + 7 + 5

On account of those (actions/words of theirs) let them be there (at the judgement as men) of bad virility! (Let them) be duped

and laughable, all (of them)! Let them be booed!

By those of good command (= good rulers) let them be smashed and bled! And (but) let him give peace with these to the settled towns!

Let that greatest torment drive them off with the chain of death! And let it be soon!

## Y. 53.8a

*anāiš* < *an-āiš* < *ana-*: dem. pron., instr. plur. masc. (see section 6.5.3.3).

*ā . . . hēntū* < *ā . . . h-antu* < *ā-ah-* ‘to be present’: root present imper. 3p act.; < *ah-* ‘to be’

*dužuuar<sup>o</sup>šnaṅhō* < *duž-uršn-āh-ah* < *o<sup>o</sup>uršna-* or *o<sup>o</sup>uršnah-* ‘bad men, unmanned’: *a-lah-* stem noun/adj., nom. plur. masc. (-*āhah*).

*dafšniā* < *dafšn-ij-ā* ‘(easily) deceivable(?)’: *a*-stem adj., nom. plur. masc.; verbal adj. of necessity < *\*dafš-na-* < *dab-* ‘to deceive’ (cf. *yesniā-*, see section 4.6.2); cf. *diβža-* ‘seek to deceive’ (see section 4.1.1.1 no. 8).

## Y. 53.8b

*zaxiiā* < *jāh-ij-ā* ‘laughable’: *a*-stem adj., nom. plur. masc.; verbal adj. of necessity < *\*jāh-* ‘laugh’ (not in Avestan), cf. OInd. *has-*.

*vīspāṅhō* < *uicū-āhah* < *uicūa-*: nom. plur. masc.



*xraosəntqm upā* < *xrausa-ntām upa* < *upa-xrausa-* ‘cry at, boo’: *a*-stem pres. imper. 3p mid.; < \**xraut*’-*sca-* < *xraud-* ‘to cry’(?).

Y. 53.8c

*huxša0rāiš* < *hu-xša0r-āiš* ‘who has good command’: *a*-stem adj., instr. plur. masc.; possessive adjectival compound (*bahuvrīhi*) < *hu-* ‘good’ + *xša0ra-* ‘(royal) command’ (see section 9.1.2).

*jōr’raqm* < *jan-rām* < *jan-* ‘to smash, smite’: root stem pres. imper. 3p mid.

*xrūr’raqm* < *xrun-rām* < *xrunā-/xrun-* (< *xrū-na-H-/xrū-n-H-*) ‘to bleed’ (trans.) < \**xrū-* (*xruH-*): *nā*-stem pres. imper. 3p mid.; cf. *xrūra-* ‘bloody’.

*rāmam* < *rām-ām* ‘peace’: *ā*-stem fem., acc. sing.

*dadātū* < *da-dā-tu* < *dā-* ‘to give’: reduplicated athem. pres. imper. 3s act.

*šüētibiio* < *šjat-ī-bjah* < *šjant-/šjat-* (< *šjnt-*) < *čšai-/čši-* ‘to dwell, inhabit’: pres. part. fem. dat.-abl. plur. with medio-passive meaning ‘inhabited’.

*vīz’biiō* < *vij-bjah* < *vič-* ‘house’: root noun fem., dat.-abl. plur., dat. function.

Y. 53.8d

*iratū* < *ira-tu* < *ir-a-* ‘to set in motion, send’: *a*-stem pres. imper. 3s act.; reduplicated *iġ-ar-lī-r-a* (< *Hi-Har-/Hi-Hr-a-*) < *Hġ-* ‘to move’, cf. OInd. *iyar-*.

*iš* < *i-nš* ‘them’: pers. pron. 3p acc.

*duafšō* < *duafša-h* ‘\*torment’: *a*-stem masc., nom. sing. *huuō* < *hau* ‘that’: dem. pron. nom. sing. masc. (see Section 6.5.3.3).

*dər’zā* < *d<sup>(l)</sup>ġj<sup>h</sup>-ā* ‘chain’: root noun instr. sing.

*mər’0iiaoš* < *mġ0ġi-au-š* < *mġ0ġi-* < *mġ-t-ġi-* ‘death’ < *mġ-* ‘die’: *u*-stem masc. gen. sing.

*mazištō* < *maj-išta-h* < *maj<sup>h</sup>-* < *majH-* ‘big, great’: superl. nom. sing. masc.

*mošuo* < *mašu* ‘soon’ < *mac-š-*: adverb, cf. OInd. *makṣú*, Latin *mox*.

*astū* < *as-tu* < *ah-*: root present 3s imper. act.

## 11.2 Young Avestan

Y.8.2

*x<sup>o</sup>arata narō aētəm miiazdəm*  
*yō ðim haṅhāne ašā-ca frērti-ca*

Eat, men, this *myazd*,  
(he among you) who has gained it for himself by (his) Order and by (his) sending (it) forth(?)!

*x<sup>o</sup>arata* < *huara-ta* < *huar-a-* ‘to eat’: *a*-stem pres. imper. 2p.

*narō* < *nar-ah* < *nar-* ‘man’: voc. plur.

*aētəm* < *ait-am* < *aiša-laita-* ‘this’: dem. pron., acc. sing. masc.

*miiazdəm* < *miiazd-am*, a kind of food offering: *a*-stem masc., acc. sing., cf. OInd. *miyédha-*.

*ðim* < *di-m* ‘it’: pers. pron. 3rd pers., acc. sing. masc. (see section 3.4.1).

*haṅhāne* < *ha-hān-ai* < *han-* ‘to gain’: perf. 3s mid.

*frērti<sup>o</sup>* < *fra-rt-ī* ‘sending forth(?)’: *i*-stem fem., instr. sing.; action noun in *-ti-* < *fra-r-* ‘to set in forward motion’; see section 2.3.1.2.

## Y.8.3

*aməša spənta daēne māzdaiiasne*  
*vaṅhauuas-ca vaij' hīš-ca zaoθrās-ca*  
*yō aēšuuu mazdaiiasnaēšuuu mazdaiiasnō aojanō*  
*ašahe rāθma jīštaiiamnō yāθβa ašahe gaēθā mər'γ'nte*  
*auui tū dim disiiata yā apas-ca "ruuarās-ca zaoθrās-ca*

O life-giving immortals! O vision-soul of those who sacrifice to (Ahura) Mazdā!  
 O good (gods) and good' (goddesses)! O libations!  
 (He) who, among these who sacrifice to (Ahura) Mazdā, (while) representing  
 himself as someone who sacrifices to (Ahura) Mazdā,  
 (as someone) \*seeking victory(?) by a \*composition of Order  
 (yet) by sorcery destroys the living beings of Order,  
 do point him out, O waters, plants, and libations!

## Y.8.3a

*aməša* < *a-mr̥t-ā* 'non-dead, immortal': *a*-stem adj., voc. plur. masc.; adjectival compound < *a*-, privative prefix + *mr̥ta-*, past part. of *mr̥-* 'die'.

*spənta* < *čūHantā* < *čūHan-ta-* 'life-giving': *a*-stem adj., voc. plur. masc.; < *č(u)uHan* (OAv. *spən-*) '\*swelling' + suffix *-ta-* 'being provided with' < *čūaH-* (*spā-*) 'swell (with the juices of life)' (see Y. 28.9c, above). The *aməša spənta* 'life-giving immortals' are six beings brought forth by Ahura Mazdā during his cosmogonic sacrifice. When Ahura Mazdā is counted they become the Seven Life-giving Immortals.

*daēne* < *dajan-ai* 'vision-soul': *ā*-stem fem., voc. sing.; < *dāy-lā-* (< *d<sup>h</sup>aiH-l<sup>h</sup>iH-*) 'to see', specialised in the meaning of 'seeing' in the world of thought, in the beyond; the vision-soul is also the totality of a person's good or bad thoughts, words, and deeds and is represented as a woman, pretty or ugly, accordingly.

*māzdaiiasne* < *māzdaiiasn-ai* 'pertaining to a *mazda-iasna-*': *i*-stem adj., voc. sing. fem.; "vriddhi" derivative < *mazda-iasna-* 'someone who sacrifices to (Ahura) Mazdā', adjectival compound < (*ahura-*) *mazdā-* + *iasna-* 'sacrifice', cf. *yaza-* < *iaj'-a-* 'to sacrifice (to), offer up in sacrifice (to)'

## Y.8.3b

*vaṅhauuas*° < *uāh-au-as*° < *uāh-u*: voc. plur. masc.

*vaij' hīš* < *uāh-u-ī-š* < *uāh-u-*: derived fem. *ī*-stem adj., voc. plur.

*zaoθrās* < *jauθr-ā-s*° 'libation': *ā*-stem fem. pl. of neut. sing. *zaoθra-*, voc. plur.; see section 3.1.1.

## Y.8.3c

*aēšuuu* < *ai-šu* + *ā* < *a-*: dem. pron., loc. plur. masc.

*māzdaiiasnaēšuuu* < *mazda-iasn-aišu* + *ā* < *mazda-iasna-*: *a*-stem masc., loc. plur.

*māzdaiiasnō* < *mazda-iasn-ah*: nom. sing.

*aojanō* < *auj'-āna-h* < *aug-lauj'-* 'to present oneself as, say': pres. part. mid., nom. sing. masc.

Y.8.3d

*aṣahe* < *art-ahja* < *art-a-*: gen. sing.  
*rāoma* < *rāomā* < *rāo-ma-* ‘\*composition’: *a*-stem masc., instr. sing. (uncertain derivation and meaning).  
*jīštaiamnō* < *jīšt-aja-mna-h* < *jīšt-aja-* ‘\*seek life/victory(?)’: *aja*-stem pres. part. mid., nom. sing. masc.; < *jī-* ‘live’ or *jī-* ‘win’(?).  
*yāθβa* < *iāθu-ā* < *iāθu-a-* ‘sorcery’: *a*-stem masc./neut.(?), instr. sing.; derivative of *iātu-* ‘sorcerer’.  
*gāēθā* < *gaiθ-āh* ‘living beings’: *ā*-stem fem., acc. plur.; derivative of *gai-l jī-* (*gaiH-l jīH-*) ‘live’.  
*mər<sup>o</sup>γ<sup>o</sup>ṇ-te* < *mṛng-tai* (*mṛnx-tai?*) < *mṛ-n-k-* < *mṛk-* ‘to destroy’: *n*-infixated athem. pres. indic. 3s mid.; the form appears to be metathesised, but the exact phonetic processes involved are unclear; the OAv. form would have been \**mər<sup>o</sup>ṇg<sup>(o)</sup>-dē*.

Y.8.3e

*auui* . . . *disiūata* < *abi* . . . *diēja-ta* < *abi* . . . *diē-ja-* ‘to point at’ < *daiē-l diē-* ‘point’: *ja*-stem pres. imper. act.  
*tū* < *tu*: emphatic enclitic particle; see section 8.1.4.  
*yā* < *iā-h*: rel. pron., nom. plur. fem.  
*apas<sup>o</sup>* < *ap-ah* < *āp-* ‘water’: root-noun fem., voc. plur.  
*“ruuarās<sup>o</sup>* < *ruuar-āh<sup>o</sup>* < *ruuar-ā-* ‘plant’: *ā*-stem fem., voc. plur.

Y.8.5

*vasas-ca tū ahura mazda uštā-ca xšāēša hauuanəm dāmanəm*  
*vasō āpō vasō “ruuarā vasō vīspa vohū ašaciθra*  
*xšaiiamnəm ašauuanəm dāiūata axšaiiamnəm druuantəm*

May you, O Ahura Mazdā, rule at will and according to wish over your own creations!  
(May you rule) at will, O waters, at will, O plants, at will, O all good things whose seed is from Order!  
Place the Orderly one in command, the one possessed by the Lie out of command!

Y.8.5a

*vasas<sup>o</sup>* < *uācas<sup>o</sup>* < *uāc-ah* ‘wish’ < *uāc-luē-* ‘to wish’: *ah*-stem neut., acc. sing. used as adverb; see section 3.3.  
*tū* < *tū*: pers. pron. 2s voc. enclitic.  
*ahura*: voc. sing.  
*mazda* < *mazdā*: voc. sing.  
*uštā<sup>o</sup>* < *ušt-ā* < *ušt-i-* ‘wish’ < *uāc- luē-* ‘to wish’: *i*-stem fem., loc. sing., action noun in *-ti-*.  
*xšāēša* < *xšai-ša* < *xšā-ī-ša*: aor. 2s opt., < *xšaija-* to rule (over: + gen.); < *xšā-*.  
*hauuanəm* < *hay-ānā’am* < *hay-a-* ‘own’: poss. refl. pron., gen. plur. neut.  
*dāmanəm* < *dāman-a’am* < *dām-an-* ‘creation’: *n*-stem neut., gen. plur.; < *d<sup>h</sup>ā-* ‘to place’.

## Y.8.5b

*āpō* < *āp-ah*: voc. plur.

*ruuarā* < *ruuar-āh*: voc. plur.

*vīspa* < *uičy-ā*: acc. plur. neut.

*vohū* < *uāh-ū*: acc. plur. neut.

*ašaciōra* < *arta-čiōr-ā* ‘whose seed is from(?) Order’: *a*-stem adj., acc. plur. neut.; adjectival compound < *arta-* + *čiōra-* ‘seed’.

## Y.8.5c

*xšaiiamnəm* < *xšaja-mn-am* < *xš-aja-* ‘to rule’ < *xšā-*: *aja*-stem pres. part. mid., acc. sing. masc.

*ašauuanəm* < *artāuan-am* < *artā-uan-lart-āun-* ‘Orderly, who sustains Order’: *uan*-stem adj. acc. sing. masc.; < *arta* + *uan-*.

*dāiūta* < *dāja-ta* < *dā-ja-* < *d<sup>h</sup>ā-* ‘place’: *ja*-stem pres. imper. 2p.

*axšaiiamnəm* < *a-xšaja-mn-am* ‘not in command, not ruling’: *a*-stem adj., acc. sing. masc.; adjectival compound < *a-* + *xšaja-mna-*.

*druuantəm* < *druguant-am* < *drug-uant-ldrug-uat-* (*drug-unt-*) ‘possessed by the Lie’: *uant*-stem adj., acc. sing. masc.; < *drug-ldrug-* ‘the (cosmic) Lie’ (female principle of deception), together with the Evil Spirit Ahura Mazda’s principal opponent. Originally perhaps Chaos. She deceives gods and men as to the true nature of the ordered cosmos.

## Y.8.8

*rauuas-ca x<sup>v</sup>āōrəm-ca āfrīnāmi vīspaiiā ašanonō stōiš*

*qzas-ca dužāōrəm-ca āfrīnāmi vīspaiiā druuatō stōiš*

I invite the open space and easy breathing of the entire (temporal) existence of the Orderly one.

I invite the constriction and laboured breathing of the entire (temporal) existence of the Orderly one.

## Y.8.8a

*rauuas<sup>o</sup>* < *raū-ah* ‘open space’: *ah*-stem neut., acc. sing.

*x<sup>v</sup>āōrəm* < *hu-āōr-am* < *hu-āōr-a-* (< *H<sup>h</sup>H-ōra-*) ‘good breathing (space), easy breathing, comfort’: *a*-stem neut., acc. sing.; nominal compound < *hu-* ‘good’ + *āōra-* < *anH-* ‘to breathe’.

*āfrīnāmi* < *ā-frīnā-mi* < *ā-frī-nā-lā-frī-n-* (< *fri-na-H-lfri-n-H-*) ‘to invite as (guest) friend(?)’: *nā*-stem athem. pres. ind. 1s act. (performative).

*vīspaiiā* < *uičy-āi-āh* < *uičy-a-*: fem. sing.

*ašanonō* < *artā-un-ah* < *artā-uan-lartā-un-*: gen. sing. masc.

*stōiš* < *stai-š* < *s-ti-* ‘(duration of) being, (temporal) existence’: *i*-stem fem., gen. sing.; < *ah-* ‘to be’.

## Y.8.8b

*qzas<sup>o</sup>* < *anj-ah* ‘constriction’: *ah*-stem neut., acc. sing.; cf. *angst*.

*dužāθrəm* < *duž-āθr-am* < *duž-āθra-* ‘bad (constricted) breathing, discomfort’: *a*-stem neut., acc. sing.; nominal compound, antonym of *hu-āθra-*.

*druuatō* < *druguat-ah* < *drug-uant-/drug-uat-*: gen. sing. masc.

Most of the *Young Avesta* is written in a basically octosyllabic metre, of which the following text from the hymn to Miθra is a sample. In Yt.10.12, the first line is hypermetric.

Yt.10.12

*miθrəm vo<sup>u</sup>ru.gaoiiao<sup>t</sup>tīm yazama<sup>i</sup>de*  
*arš.vacaŋhəm viiāxanəm*  
*hazaŋra.gaošəm hutāštəm*  
*baēuuar<sup>3</sup>.cašmanəm bər<sup>3</sup>zaŋtəm*  
*pər<sup>3</sup>θu.vaēdaiianəm sūrəm*  
*ax<sup>3</sup>afnəm jaγā<sup>u</sup>ruuāŋhəm*

We sacrifice to Miθra with wide grazing grounds, of truthful speech, \*eloquent,  
 with a thousand ears, well-fashioned, with ten thousand eyes, tall,  
 with broad outlook, strong, sleepless, waking.

*miθrəm* < *miθr-am* ‘Miθra’: *a*-stem masc. acc. sing.

*vo<sup>u</sup>ru.gaoiiao<sup>t</sup>tīm* < *uaru-gau-iaut-im* ‘having wide grazing grounds’: *i*-stem adj., masc. acc. sing.; possessive adjectival compound < *uaru-* ‘broad’ and *gau-iaut-i-* of uncertain exact meaning; cf. OInd. *gav-yūti-*.

*yazama<sup>i</sup>de* < *yaza-*: pres. ind. 1s mid. (see Y.8.3a).

*arš.vacaŋhəm* < *arš-ūacah-am* ‘of truthful speech’: *ah*-stem adj., masc. acc. sing.; possessive adjectival compound < *arš* ‘straight, truthful(ly)’ < *Hrj-š* (OAv. *ər<sup>3</sup>š*).

*viiāxanəm* < *uiiāxan-am* (4 sylls.) word of uncertain meaning: *a*-stem adj., masc. acc. sing.

*hazaŋra.gaošəm* < *hajāhra-gauš-am* ‘having a thousand ears’: *a*-stem adj., masc. acc. sing., possessive adjectival compound < *hajāhra-* ‘1000’ and *gauša-* ‘ear’.

*hutāštəm* < \**hu-tašt-am* ‘well-fashioned’: *a*-stem adj., masc. acc. sing.; the form with long vowel analogical with the present *tāš-ti* ‘he fashions’.

*baēuuar<sup>3</sup>.cašmanəm* < *baiuar-čašm-an-am* ‘having ten thousand eyes’: *man*-stem adj., masc. acc. sing.; possessive adjectival compound < *bai-uar-* ‘10,000’ and *čaš-man-* ‘eye’ (neut.).

*bər<sup>3</sup>zaŋtəm* < *brjant-am* ‘tall’: *ant*-stem adj., masc. acc. sing.

*pər<sup>3</sup>θu.vaēdaiianəm* < *pṛθu-uidājan-am* ‘with broad outlook’: *a*-stem adj., masc. acc. sing.; possessive adjectival compound < *pṛθu-* (< *pṛtH-u-*) ‘broad’ and *uid-ājan-*, derivative of *ui-dāy-* ‘see far and wide’.

*sūrəm* < *cūr-am* (< *cuH-ra-*) ‘rich in life-giving strength’: *a*-stem adj., masc. acc. sing. (see Y. 28.9c on *sauuajhəm*).

*ax<sup>3</sup>afnəm*, *a-huafn-am* ‘sleepless’: *a*-stem adj., masc. acc. sing.; from *a-* + *huaf-na-* ‘sleep’.

*jaγā<sup>u</sup>ruuāŋhəm* < *ja-gar-ūāh-am* ‘waking’: pf. part. act. of *garH-/grā-* ‘wake’; the diphthong *-ā<sup>u</sup>* perhaps substituted for *-ao<sup>u</sup>* (de Vaan 2003, §17.4.2) but perhaps with vowel metathesis, cf. OInd. *jā-gar-*.

## Yt. 10.13

- a *yō paō'riiō manīiauuō yazatō*  
 b *tarō harçm \*āsənao'ti*  
 c *pa<sup>a</sup>ruua.naēmāꞤ aməṣahe*  
 d *hū yaꞤ a<sup>a</sup>ruuaꞤ.aspahe*  
 e *yō paō'riiō zaraniiō.pīsō*  
 f *srīrā \*bar<sup>3</sup>šnauuō gər<sup>3</sup>βnā'ti:*  
 g *aḏāꞤ vīspəm ādiḏā'ti*  
 h *a'riiō.šaiianəm səuiištō*

Who as the first in the other world to be sacrificed to  
 rises over Harā,  
 in front of the immortal  
 sun with fleet horses,  
 who, as the first, seizes  
 the gold-adorned, beautiful heights.  
 From there, he surveys the entire  
 settlement of the Aryans, he most rich in life-giving strength.

a

*paō'riiō* < *parū-īia-h* (see Y. 28.11c): *a*-stem adj. masc. nom. sing.  
*manīiauuō* < *manī-au-ah* 'of the world of thought: *a*-stem adj., masc. nom.sing.; < *manīu-* (see Y. 28.11c).  
*yazatō* < *īaj<sup>1</sup>-at-ah* 'being worthy of sacrifices' < *īaja-* (cf. Y.8.3a): *a*-stem, masc. nom. sing.

b

*tarō* < *tar-ah* 'over, beyond' < *tṛH-* 'cross over': prep. + acc.  
*harçm* < *har-ām* 'Harā' a mountain: *ā*-stem fem. acc. sing.  
*\*āsənao'ti* (mss. *āsnaoiti*) < *ā-sa-nau-* 'rise' < *ā-sṇ-nau-*: *nau*-stem pres. ind. act. 3s.

c

*pa<sup>a</sup>ruua.naēmāꞤ* < *parūa-naim-āt* 'from in front of': *a*-stem masc. abl. sing.; compound < *pa<sup>a</sup>ruua-* 'before' and *naēma-* 'half, side'.

d

*hū* < *huṃaṅ-h* < *hū-uar/n-* 'sun': *uar/n*-stem neut. gen. sing.  
*yaꞤ*: relative particle (see section (6.1.1.1a)).  
*a<sup>a</sup>ruuaꞤ.aspahe* < *arūat-acū-ahīa arūat-acūa-* 'having fleet horses: *a*-stem adj. masc. acc. sing.; possessive adjectival compound < *arūant-* 'fleet' and *acūa-* 'horse'.

e

*zaraniiō.pīsō* < *j<sup>h</sup>aranīa-piç-ah* 'gold-adorned': cons.-stem adj., fem. nom. plur.; adjectival compound < *j<sup>h</sup>aranīa-* 'gold' and root noun *piç-* 'paint, adorn', cf. OPers. *ni-piθ-* 'write'.

f

*srīrā* < *crīr-āh* ‘beautiful’ < *crāiH-/cīriH-*: *a*-stem adj., fem. nom.plur.

\**bar³šnauuō* (ms. F1 °auua) < *barj<sup>h</sup>n-au-ah* ‘height’: *u*-stem fem. nom. plur.; this nom. phrase is used for expected acc.; for the gender and reading, cf. Yt. 18.6 *vīspā bar³šnauuō g<sup>h</sup>rinqm* ‘all the heights of the mountains’.

*g<sup>h</sup>βnā<sup>h</sup>ti* < *grb-nā-ti* < *g<sup>h</sup>rb<sup>h</sup>-nā-lg<sup>h</sup>rb<sup>h</sup>-n-* ‘take, seize’: *nā*-stem pres. ind. act. 3s.; also *g<sup>h</sup>ruuāiia-* < *grbāya-*, cf. OPers. *garbāya-* (DNa 15–22b).

g

*aḏā<sup>h</sup>i* < *ad<sup>h</sup>-āt* ‘from there’;

*ādiḏā<sup>h</sup>ti* < *ā-di-dā-ti* ‘surveys’ < *dāy- /dī-* (see Y.8.3a): red. pres. ind. act. 3s.

h

*driiō.šaiianəm* < *ariā-cšaiian-am* ‘settlement of the Aryans’: *a*-stem, masc. acc. sing.; compound of *ariā-* ‘Aryan, Iranian’ and *cšai-ana-*, derivative of *cšai-* ‘dwell, be settled’ (see Y.53.8c).

*sauuištō* < *cauH-išt-ah* ‘most endowed with life-giving strength’ (see Y. 28.9c on *sauuarhqm*): *a*-stem superl., masc. nom. sing.

### 11.3 Old Persian

DNa 15–22

- a *ōātiy dārayavauš xšāyaθiya*
- b *vašnā auramazdāha imā dahayāva tayā adam aqarbbāyam apataram hacā pārsā*
- c *adam-šām patiyaxšayaiy manā bājim abaraha*
- d *taya-šām hacā-ma aḏahaya ava akunava*
- e *dātam taya manā ava-dī[š] adāraiya*

King Darius announces:

By the greatness of Ahuramazdā, these (are) the lands that I seized further away from Persia.

I ruled over them. They brought me tribute.

Whatever was announced to them from/by me, that they did.

My law held them.’

a

*ōātiy* < *caṅha-ti* < *caṅha-* ‘to announce’: *a*-stem pres. ind. (performative) 3s act.

*dārayavauš* < *dāraja-vahu-š*: *u*-stem proper name masc., nom. sing.; nominal compound < *dāraja-*, pres. stem. of *dar-* ‘to (up)hold’ and *uahu-* ‘good (things)’.

*xšāyaθiya* < *xšājaθ-ja-h* ‘king’: *a*-stem masc., nom. sing.; *ja*-stem ‘vridhhi’ derivative of \**xšaj-aθa-* ‘rule’ < pres. *xšaja-* ‘to rule’.

b

*vašnā* < *uajnā* < \**uajar/n-* ‘greatness’: *r/n*-stem neut., instr. sing.; cf. *uajr-ka-* (*vazarka-*) ‘great’.

*auramazdāha* < *ahura-mazdāh* + *ah* < *ahura-mazdā-*: gen. sing.; the gen. sing. ending *-ah* has been added to the gen. *mazdāh* < *mazdaH-ah*.

*imā* < *im-āh* ‘these’: dem. pron., acc. plur. fem.

*dahçiyāva* < *dahç-āu-ah* < *dahç-au-* ‘land’: *au*-stem fem., nom. plur.

*tayā* < *ta* + *ç-āh*: rel. pron., acc. plur. fem.

*adam* < *açam* ‘I’: pers. pron. 1s, nom.; Av. *azəm*.

*agçrbāyam* < *a-grçb-āçia-m* < *grçb-āçia-* < *g<sup>h</sup>rab<sup>h</sup>*- ‘to seize’: *āçia*-stem pres., imperf. 1s act.; cf. Yt. 10.13 f.

*apataram* < *apa-tara-m* < *apa-* ‘away’: adverbial acc. sing. neut., comparative.

*hacā* < *haca* ‘from’ (+ instr.-abl.).

*pārsā* < *pārsāt* < *pārsa-* ‘Persia’: instr.-abl. sing., abl. function.

## c

*-šām* ‘them’: pers. pron. 3rd pers. enclitic, gen.-dat. plur., gen. function.

*patiyaxšayaiy* < *pati-a-xšaçi-ai* < *pati-xšaçia-* mid. ‘to rule over’: *açia*-stem pres., imperf. 1s mid.

*manā* < *mana* ‘me’: pers. pron. 1s gen.-dat., gen. function.

*bājim* < *bāçi-m* ‘tribute’: *i*-stem (masc./fem.?), acc. sing.

*abaraha* < *a-bara-n* (error?) < *bara-* ‘to carry’: *a*-stem pres., imperf. 3p; in principle, the form could be read as *ā-bara-* ‘to bring’.

## d

*taya* < *taçi-at* ‘that which, what’: rel. pron., nom. sing. neut.; see section 3.4.4. *-ma* < *-ma-t* ‘me’: pers. pron. 1s (instr.-abl. enclitic, abl. function).

*a0ahçya* < *a-çahçia-t* < *çah-çia-* < *çhçia-* or < *çahç-çia-* ‘to be announced’: *çia*-stem passive of *çahça-*, imperf. 3s act.

*ava* < *au-at* ‘that’: dem. pron., acc. sing. neut.

*akunava* < *a-ku-nau-an* < *kç-nau-lkç-nu-* ‘to do’: *nau*-pres. stem, imperf. 3p act.; commonly regarded as an ‘allegro’ form with *kun-* < *kçn-*, cf. Av. *kær<sup>o</sup>-nau-*, but perhaps analogical (rhyming) with forms such as *\*sru-nau-* (Av. *s<sup>o</sup>runao-*).

## e

*dātam* < *dāt-am* ‘law’: *a*-stem neut., nom. sing.; substantivised past part. *dāta-* ‘placed, set down’ from *d<sup>h</sup>ā-*

*-dīš* < *<sup>o</sup>i-nš* ‘them’: pers. pron. 3rd pers., acc. plur. masc.; for *\*i-nš*.

*adāraçia* < *a-dāraçia-t* < *dāraçia-* ‘to hold (firmly in place)’: *açia*-stem pres., imperf. 3s act.

## DNa 31–38

a *auramazdā ya0ā avaina imām būmim \*yauda<sup>o</sup>tīm pasāva-dim manā frābara*

b *mām xšāya0iyam akunauš adam xšāya0iya a<sup>h</sup>miy*

c *vašnā auramazdāhā adam-šim gā0avā niyašādayam*

d *\*taya-šām adam a0aham ava akunava \*ya0ā mām kāma āha*

When Ahuramazdā saw this earth being in turmoil, then he gave it to me.

He made me king. I am king.

By the greatness of Ahuramazdā, I set it down in its place.

Whatever I announced to them, that they did as was my wish.



a

*auramazdā* < *ahura-mazdā-h*: nom. sing.; Av. *ahurō mazdā* < *ahura-h mazdā-h*.

*yaθā* < *ja-θa* ‘when’: conjunction.

*avaina* < *a + uaina-t* < *uaina-* ‘to see’: *a*-stem pres., imperf. 3s act.

*imām* < *im-ā-m* ‘this’: dem. pron., acc. sing. fem.

*būnim* < *būm-im* ‘earth’: *i*-stem fem., acc. sing.; cf. Av. *būmī*.

*yauđa*“*tūm* < *iaujā-nt-ī-m* < *iaujā-* ‘to be in turmoil, be chaotic’: pres. part., derived *ī*-stem fem., acc. sing.; cf. Av. *yaoza-*.

*pasāva* < *pasća + aya-t* ‘afterward, then’: adverbial compound < *pasća* ‘after’ + *aya-t* ‘that’.

*-dim* < *đm* ‘it’: pers. pron. 3rd pers., acc. sing. fem. enclitic; it is not known whether the form had preserved the long *ī*, cf. OAv. *hīm*.

*manā* < *mana* ‘me’: pers. pron. 1s, gen.-dat., dat. function.

*frābara* < *fra-a-bara-t* < *fra-bara-* ‘to proffer, give’: *a*-stem pres., imperf. 3s act.

b

*mām* < *mām* ‘me’: pers. pron. 1s, acc.

*xšāyaθiyam* < *xšājaθi-am*: acc. sing.

*akunauš* for *a-kunau* < *a-kunau-t* < *kunau-* ‘to do, make’: *nau*-pres. stem, imperf. 3s act.

*a<sup>h</sup>miy* < *ah-mi* < *ah-* ‘to be’: pres. ind. 1s act.

c

*-šim* < *-š-īm*: pers. pron. 3rd pers., acc. sing. fem. enclitic; cf. OAv. *hīm*.

*gāθavā* < *gāθau* + *ā* < *gātu-* (*gāθu-*) ‘place, platform (throne)’: *u*-stem loc. sing. + postpos. *-ā*.

*niyašādayam* < *ni-a-šādaja-m* < *ni-šādaja-*, caus. of *ni-šad-* < *had-* ‘to sit’: *aja*-stem (caus.) pres., imperf. 1s; the form has been analogically remade from *\*ni-a-hādaja-*.

d

*aθaham* < *a-θaḡha-m*: imperf. 1s act.

*kāma* < *kāma-h* ‘wish’: *a*-stem masc., nom. sing.; this noun takes a personal dir. obj.: *mām kāma<sup>h</sup>* ‘I wish’ see section 6.4.3.4.

*āha* < *āha-t* < *ah-* ‘was’: imperf. 3s act.; the form is a thematised replacement for *\*ās-(t)*, which would probably have been reduced to *\*ā* in OPers.; the long initial *āh-* is < *a-Hh-*.

*DNa 38–47*

- a *yadi-patīy maniyāhay taya ciyakaram [āha] \*avā dahayāva tayā dārayavauš xšāyaθiya adāraya*
- b *patīkarā dīdiy tayaiy gāθum bara<sup>h</sup>tiy*
- c *adā xšnāsāḡay ada-taiy azdā bavātiy pārsahayā martiyahayā dūrai y arštiš parāgmatā*
- d *ada-taiy azdā bavātiy pārsa martiya dūray hacā pārsā parataram patiyajatā*

If, again, you think – ‘How were those lands which King Darius held?’ – then look at the pictures (of the men) who carry the throne.

Then you will know, then it will become clear to you that the Persian man’s spear has gone far away.

Then it will become clear to you that the Persian man \*defended himself far beyond Persia.

a

*yadi-* < *yadi* ‘if’: conj.

*-patiy* < *-pati* ‘in addition’(?): enclitic particle.

*maniyāhay* < *man-iā-hai* < *man-* ‘to think’: *īa*-stem. pres. subj. mid.

*taya* < *ta* + *īa-t* ‘that’: conj., here introducing dir. speech.

*ciyakaram* < *čīā-kar-am* ‘how?’ (or: ‘how many?’): adverbial compound < *čīā-* ‘how much(?)’ + *kara-* ‘work’, i.e. ‘of what kind of work is he capable?’.

*āha* < *āh-an* < *ah-* ‘to be’: imperf. 3p act.

b

*patikarā* < *pati-kar-ā* ‘pictures’: *a*-stem masc. acc. plur.; nominal compound < *pati* + *kara-* ‘sth. made to reflect’.

*dīdiy* < *dī-di* ‘look at!’, pres. *vaina-*: imper. 2s act.; perhaps originally an aor. stem.

*tayaiy* < *ta+īai* ‘who’: rel. pron. nom. plur. masc.

*gā0um* < *gāt-u-m* < *gātu-*: acc. sing.; see section 2.3.2.5.

*bara'tiy* < *bara-nti* ‘to carry’: *a*-stem pres. ind. 3p act.

c

*adā* < *ada* ‘then’: temporal adv.

*xšnāsāhay* < *xšnāčā-hi* < *xšnā-sca-* ‘to know’: pres. subj. 2s act.; *xšnā-sca-* < *jnā-*, cf. *dānā-* ‘know’ < *jā-nā-* (for *jñ-na-H-*).

*-taiy* < *-tai* ‘you’: pers. pron. 2s, gen.-dat., dat. function.

*azdā* < *azdā* ‘known, clear’ (< *ad'dhā*, OInd. *addhā*).

*bavā'tiy* < *bau-ā-ti* < *bau-lbū-* ‘to become’: *a*-stem pres. subj. 3s act.

d

*pārsahayā* < *pārsa-hja* ‘Persian’: *a*-stem adj., gen.-dat. sing. masc., gen. function.

*martiyahayā* < *martija-hja* ‘man’: *a*-stem masc., gen.-dat. sing., gen. function.

*dūrai* < *dūrai* < *dūra-* ‘far’: adverbial loc. sing.; see section 3.3.

*arštiš* < *ršti-š* ‘spear’: *i*-stem fem., nom. sing.

*parāgmatā* < *parā-gmatā* < *parā-gam-* ‘to go away’(?): intrans. perf. nom. sing. fem. (see section 7.4.3.1); cf. YAv. *γ<sup>3</sup>mata-*.

e

*pārsa* < *pārsa-h:* nom. sing. masc.

*martiya* < *martija-h:* nom. sing.

*parataram* < *para-tar-am* < *para-* ‘beyond’: adverbial acc. sing. neut., comparative.

*patiyajatā* < *pati-a-ja-ta* < *pati-jan-ljn-* (< *jñ-*) ‘to strike back’, mid. ‘defend oneself’(?): imperf. 3s mid.

*DNa 48–55*

- a *Oātiy dārayavauš xšāyaθiya*
- b *aita taya k̄artam ava visam vašnā auramazdāhā akunavam . . .*
- c *mām auramazdā pātuv hacā gastā utā-maiy viθam utā imām dah̄yāum*
- d *aita adam auramazdām jadiyahāmiy aita-maiy auramazdā dadātuv*

King Darius announces:

All this that has been done I did by the greatness of Ahuramazdā.

Let Ahuramazdā protect me from foulness, as well as my house and this land!

This I ask Ahuramazdā for. Let Ahuramazdā give me this!

b

*aita* < *aita-t* ‘this’: dem. pron., nom.-acc. sing. neut.

*k̄artam* < *k̄rt-am* < *kar-* ‘to do’: intrans.-pass. perf., nom.-acc. sing. neut.

*visam* < *uičū-am* ‘all’: nom.-acc. sing. neut.

*akunavam* < *a-kunaū-amr.* imperf. 1s act.

c

*pātuv* < *pā-tu* < *pā-* ‘to protect’: imper. 3s act.; there are no pres. forms attested of this verb, but cf. *pati-paya-<sup>h</sup>uvā* (DB 4.38) < *pati-paīa-huā* pres. imper. 2s mid.

*gastā* < *gast-āt* < *gasta-* ‘foulness’: *a*-stem neut.(?) instr.-abl. sing., abl. function; past part. *gas-ta-* ‘foul-smelling’ < *gnt<sup>s</sup>-ta-*, replacing \**gazda-* < \**gnd<sup>r</sup>-d<sup>h</sup>a-* < *gand<sup>h</sup>-* ‘to smell foul’.

*utā-* < *uta* ‘and’: conj.

*-mai* < *-mai* ‘me’: pers. pron. 1s, gen.-dat., gen. function.

*viθam* < *uič-am* ‘house’: root noun fem.(?), acc. sing.

*dah̄yāum* < *dahy-āu-m* < *dah̄i-au-*: acc. sing.

d

*auramazdām* < *ahura-mazda-am*: acc. sing.; < *mazdaH-am*.

*jadiyahāmiy* < *jad-īā-mi* < *jad-ī-a-* ‘to ask’ (+ acc. of pers. + acc. of thing): *īa*-stem pres. (performative) ind. 1s act.

*dadātuv* < *da-dā-tu* < *dā-* ‘to give’: reduplicated pres. imper. 3s act.

## ABBREVIATIONS OF TEXTS

### Avestan texts

Āfr.	Āfrīnagān
FrD.	text edited in Hoffmann 1968.
H.	Hādōxt nask
Her.	Hērbedistān
N.	Nīrangistān
V.	Videvdad
Vr.	Vispered
Y.	Yasna
Yt.	Yasht

**Old Persian texts**

- DB Darius at Behistun (Bisutun), large inscription  
 DBa . . . Darius at Behistun, smaller inscriptions  
 DE Darius at Elvand  
 DNa, b Darius at Naqsh-e Rostam  
 DPa . . . Darius at Persepolis  
 DSa . . . Darius at Susa  
 DZa . . . Darius at Suez  
 XPa . . . Xerxes at Persepolis  
 XV Xerxes at Lake Van

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