# 5. ADJECTIVES

## 5.1. INFLECTION OF ADJECTIVES

5.1.1. In IE III, the noun could be determined in three different ways: with another noun, as in "stone wall"; with a noun in Genitive, as in "the father's house"; or with an adjective, as in "paternal love". These are all possible in MIE too, but the adjective corresponds to the third way, i.e., to that kind of words – possibly derived from older Genitives – that are declined to make it agree in case, gender and number with the noun they define.

5.1.2. The adjective is from the older stages like a noun, and even today Indo-European languages have the possibility to make an adjective a noun (as *English*), or a noun an adjective (*stone wall*). Furthermore, some words are nouns and adjectives as well: **wŕsēn**<sup>79</sup>, *male*, *man*, can be the subject of a verb (i.e., a noun), and can determine a noun.

Most of the stems are actually indifferent to the opposition noun/adjective, and even most of the suffixes. Their inflection is common, too, and differences are normally secondary. This is the reason why we have already studied the adjective declensions; they are the same as the noun's.

5.1.3. However, since the oldest IE language there were nouns different from adjectives, as **wlqos** or **pods**, and adjectives different from nouns, as **rudhrós**<sup>61</sup>, **solwós**, etc. Nouns could, in turn, be used as adjectives, and adjectives be nominalized.

NOTE. There were already in IE II some trends of adjective specialization, with the use of suffixes, vocalism, accent, and sometimes inflection, which changed a noun to an adjective and *vice versa*.

## 5.2. THE MOTION

- 5.2.1. In accordance with their use, adjectives distinguish gender by different forms in the same word, and agree with the nouns they define in gender, number and case. This is the *Motion* of the Adjective.
- 5.2.2. We saw in § 3.4. that there are some rare cases of Motion in the noun. Sometimes the opposition is made between nouns, and this seems to be the older situation; as, **patér-mātér**, **bhrátēr-swésōr**.

But an adjective distinguishes between masculine, feminine and neuter, or at least between animate and neuter (or inanimate). This opposition is of two different kinds:

- a. Animates are opposed to Inanimates by declension, vocalism and accent; as, -os/-om, -is/-i, -nts/-nt, -ēs/-es.
- b. The masculine is opposed to the feminine, when it happens, by the stem vowel; as,  $-os/-\bar{a}$ , -nts/-ntia (or  $-nt\bar{\imath}$ ),  $-us/-u\bar{\imath}$ .

The general system may be so depicted:

	Animates		Inanimates
	Maskuline	Feminine	Neuter
1.	-os	- <b>ā</b>	-om
2.	-is	-is	- <b>i</b>
3.	-nts	-ntiặ/-ntī	-nt
4.	-ēs	-ēs	-es
5.	-us	-นเิ	-u

NOTE. The masculine-feminine opposition is possibly new to Late PIE, IE II –as the Anatolian dialects show – had probably only an Animate-Inanimate opposition. The existence of this kind of adjectives is very important for an easy communication as, for example, the adjectives in  $-\bar{a}$  are only feminine (unlike nouns, which can also be masculine). An  $\mathbf{o}$  stem followed by an  $-\mathbf{s}$  in Nom. Sg. is animate or masculine, never feminine only, whilst there are still remains of feminine nouns in  $-\mathbf{os}$ .

#### 5.2.3. Compare the following examples:

- 1. For the so-called *thematic adjectives*, in -ós, -ấ, -óm, cf. kaikós, -ấ, -óm, blind (cf. Lat. caecus, Gk. καικία, a north wind), akrós, -ấ, -óm, sour, newós, -ā, -om, new, rudhrós, -ā, -om, red, koilós, -ấ, -óm, empty (cf. Gk. κοιλὸς, maybe also Lat. caelus, caelum), elnghrós, -ấ, -óm, light (cf. Gk. ἐλαφρὸς), etc.
- 2. For adjectives in -ús, -ú, cf. swādús, -uí, -ú, sweet, mreghús, -uí, -ú, brief, lchús, -uí, -ú, light, tnús, -uí, -ú, stretched, mldús, -uí, -ú, soft, ōkús, -uí, -ú, quick. Other common examples include āsús, good, bhanghús, dense, gherús, small, bad, car(āw)ús, heavy, dalkús, sweet, dansús, dense, dhanghús, quick, laghús, light, maldús, soft, pnghús, thick, tegús, fat, dense, tanghús, fat, obese, udhús, quick, immediate, etc.

#### 5.3. ADJECTIVE SPECIALIZATION

- 5.3.1. The specialization of adjectives from nouns is not absolute, but a question of grade, as e.g.
- 1. Stems in -nt are usually adjectives, but they were also assimilated to the verb system and have become (Present) Participles.
  - 2. Words in -ter are nouns, and adjectives are derived usually in -triós and others.
  - 3. Nouns in -ti have adjectives in -tikós, which usually has an ethnic meaning.
  - 4. Sometimes distinction is made with alternating vowels: neuters in  $-\mathbf{om}$  and adjectives in  $-\mathbf{\acute{e}s}$ ,  $-\mathbf{\acute{e}s}$ .

The accent is normally used to distinguish thematic nouns in -os with adj. in -ós (mainly -tós, -nós).

NOTE. There are sometimes secondary processes that displace the accent from an adjective to create a noun; cf. Gk. leukós, "white", léukos, "white spot". These correlations noun-adjective were often created, but from some point onward the derivation of adjectives was made with suffixes like -ment (-uent), -jo, -to, -no, -iko, etc. There are, however, abundant remains of the old identity between noun and adjective in IE III and therefore in Modern Indo-European. An example of the accent shift is that of Eurōp-ai-o-, which as an adjective is Eurōpaiós, Eurōpaiá, Eurōpaióm, while as a noun the accent is shifted towards the root.

#### 5.4. COMPARISON OF ADJECTIVES

5.4.1. In Modern Indo-European, as in English, there are three degrees of comparison: the Positive, the Comparative and the Superlative.

NOTE. There weren't degrees in the Anatolian dialects, and therefore probably neither in Middle PIE. It is therefore an innovation of IE III, further developed by each dialect after the great IE migrations.

5.4.2. The Comparative is generally formed by adding -ió-, which has variants -ijó- and -ison; as in sen-iós (Lat. senior), older, meg-iós, bigger (cf. "major"), etc.

5.4.3. The same suffix is the base for the Superlative -istó- (from -is-to-); as in mreghwistós, briefest, newistós, newest, etc.

Other dialectal Superlative suffixes include: O.Ind. and Gk. -tero-, Gk. -tm-to- (Gk. tato, cf. O.Sla., O.Ind. \*prījótmos) O.Ind. -tmo-, Ita. and Cel. -mo-, -smo-, -tmo-, and extended -is-smo-, -uper-mo-, Lat. summus < súp-mos; Skr. ádhamas, Lat. infimus < ńdh-mos; lat. maximus < mág-s-mos; lat. intimus (cf. intus) < én-/n-t-mos, innermost. These are all derivatives of the suffix -mós, i.e., [mos] or [mos]. The suffix is also present in other adjectives, but it took usually the Superlative degree.

5.4.4. It is interesting to point out that both suffixes, -io- (also -tero-) and -is-to-, had probably an original nominal meaning. Thus, the elongations in -ios had a meaning; as in Latin, where junióses and senióses were used for groups of age; or those in -teros, as mātérterā, aunt on the mother's side, ekwāteros, mule.

NOTE 1. Probably forms like **junióses** are not the most common in IE, although indeed attested in different dialects; actually adjectival suffixes -**iós**, -**istós** are added to the root (in e-grade) without the initial suffixes, while -**teros** and -**tmós** are added with the suffixes. Compare e.g. O.Ir. sír, cp. sía <**sēiós**, 'longus, longior'; lán (plēnus cf. lín 'numerus'), cp. lia < **plēiós** (Lat ploios, Gk. pléos); cf. Lat. ploirume, zero-grade Lat. maios, O.Ir. mía. So, for **júwenes** we find Umb. cp. jovie <\***jowiē-s**, O.Ir. óac 'iuuenis', óa 'iunior'; óam 'iuuenissimus', O.Ind. yúva(n)- (yūnah), cp. yávīyas-, sup. yáviṣta-h.

NOTE 2. In Latin (and Germanic), as already said, the intervocalic -s- becomes voiced, and then it is pronounced as the trilled consonant, what is known with the name of rhotacism. Hence Lat. *iuniores* and *seniores*.

## 5.5. NUMERALS

#### 5.5.1. CLASSIFICATION OF NUMERALS

Modern Indo-European Numerals may be classified as follows:

- I. Numeral Adjectives:
- 1. Cardinal Numbers, answering the question how many? as, **óinos**, one; **dwo**, two, etc.
- 2. Ordinal Numbers, adjectives derived (in most cases) from the Cardinals, and answering the question *which in order?* as, **prwos**, *first*; **álteros**, *second*, etc.
- 3. Distributive Numerals, answering the question how many at a time? as, **sémni**, one at a time; **dwíni** (also **dwísnoi**), two by two, etc.
  - II. Numeral Adverbs, answering the question how often? as, **smís**, once; **dwis**, twice, etc.

## 5.5.2. CARDINALS AND ORDINALS

1. These two series are as follows, from one to ten: 155

	Cardinal	Eng.	Ordinal	Eng.
1.	óinos, óinā, óinom	one	prwós	first
2.	dwó, dwấ, dwói	two	alterós (dwoterós)	second
3.	tréjes, tresrés/trisóres, trī	three	triós, trit(i)ós	third
4.	qétwor (qetwóres, qetwesóres, qetwṓr)	four	qturós, qetwrtós	fourth
5.	pénqe	five	pnqós, penqtós	fifth
6.	s(w)eks (weks)	six	(*suksós), sekstós	sixth
7.	séptm/septm	seven	septmós	seventh
8.	óktō(u)	eight	oktōwós	eighth
9.	néwn	nine	nownós, neuntós	ninth
10.	dékm/dekm	ten	dekmós, dekmtós	tenth

NOTE. The Ordinals are formed by means of the thematic suffix -o, which causes the syllable coming before the ending to have zero grade. This is the older form, which is combined with a newer suffix -to. For seven and eight there is no zero grade, due probably to their old roots.

2. The forms from eleven to nineteen were usually formed by copulative compounds with the unit plus -dekm, ten. <sup>156</sup> Hence Modern Indo-European uses the following system:

	Cardinal	Ordinal
11.	óindekm	oindekm(t)ós
12.	dwódekm	dwodekm(t)ós
13.	trídekm	tridekm(t)ós
14.	qetwŕdekm	qeturdekm(t)ós
15.	penqédekm	penqedekm(t)ós
16.	séksdekm	seksdekm(t)ós
17.	septmdekm	septmdekm(t)ós
18.	októdekm	oktōdekm(t)ós
19.	newńdekm	newndekm(t)ós

3. The tens were normally formed with the units with lengthened vowel/sonant and a general -  $kmt\bar{a}/-komt(a)^{157}$ , "group of ten", although some dialectal differences existed. <sup>158</sup>

	Cardinal	Ordinal
20.	(d)wīkṁtī	(d)wīkmt(m)ós
30.	trīkómt(ặ)	trīkomtós
40.	qetwrkómt(ž)	qetwrkomtós
50.	penqḗkómt(ặ)	penqēkomtós
60.	s(w)ekskómt(ă)	sekskomtós
70.	septīmkómt(ặ)	septmkomtós
80.	oktōkómt(ặ)	oktōkomtós
90.	newnkómt(ặ)	newnkomtós
100.	(sm)kmtóm	kmtom(t)ós
1000.	túsntī, (sm)ghéslo-	tusntitós

4. The hundreds are made as compounds of two numerals, like the tens, but without lengthened vowel. The thousands are made of the numerals plus the indeclinable **túsntī**:

	Cardinal	Ordinal
200.	dwokmtī	dwokmtós
300.	trikmtī	trikmtós
400.	qetwrkmtī	qetwrkmtós
500.	penqekmtī	penqekmtós
600.	sekskṁtī	sekskmtós
700.	septmkmtī	septmkmtós
800.	oktōkṁtī	oktōkmtós

900.	newnkṁtom	newnkmtós
2000.	dwo/dwéi/dwō	dwo tusntitói, dwéi
	túsntī	tusntitấs, dwō tusntitóm
3000.	tréjes/trisóres/trī	tréjes tusntitói, trisóres
	túsntī	tusntitấs, trī tusntitóm

NOTE 1. These MIE uninflected cardinals are equivalent to most European forms; as, for *two hundred*, Lat. *quingenti*, Gk. πεντακόσια, and also Eng. *five hundred*, Ger. *fünfhundert*, Russ. nsmbcom, Pol. pięćset, Welsh pum cant, Bret. pemp-kant. Inflected forms, such as modern Indo-European dialectal Da. *fem hundrede*, Fr. *cinq cents*, It. *cinquecento*, Spa. *quinientos*, Pt. *quinhentos*, Sr.-Cr. *petsto* (f. *pet stotina*), etc. are left for the ordinals in this Modern Indo-European system.

NOTE 2. In Germanic the hundreds are compounds made of a substantive "hundred", MIE **k**mt(m)-radhom, Gmc. khund(a)-ratham, v.s., but we have chosen this – for us more straightforward – European form, found in Italic, Balto-Slavic and Greek.

- 5. The compound numerals are made with the units in the second place, usually followed by the copulative -qe:
- f. (d)wīkmtī óinā(-qe), twenty (and) one; m. trikómta qétwor(-qe), thirty (and) four; etc.

NOTE. Alternative forms with the unit in the first place are also possible in Modern Indo-European, even though most modern European languages think about numeric compounds with the units at the end. In fact, such lesser used formation is possibly the most archaic, maybe the original PIE form. Compare e.g. for "twenty-one" (m.):

MIE (**d**)wīkḿtī óinos(-qe), as Eng. twenty-one, Swe. tjugoett, Nor. tjueen, Ice. tuttugu og einn, Lat. uiginti unus (as modern Romance, cf. Fr. vingt-et-un, It ventuno, Spa. veintiuno, Pt. vinte e um, Rom. douăzeci și unu), Gk. είκοσι ἐν, Ltv. divdesmit viens, Russ. двадцать один, Pol. dwadzieścia jeden, etc.

For **óinos**(**d**)**wīkṁtīqe**, maybe the oldest form, compare Gmc. (as Ger. *einundzwanzig*, Du. *eenentwintig*, Fris. *ienentweintich*, Da. *enogtyve*), and Lat. *unus et uiginti*, Skr. *ékavińśati*, Bret. *unan-warn-ugent*, etc.

6. In compounds we find:

sm-, one-; du- (or dw- followed by vowel), dwi-, two-; tri-, three-; q(e)tur-, four-

# 5.5.3. DECLENSION OF CARDINALS AND ORDINALS

Of the Cardinals only **óinos**, **dwo**, **tréjes** (and dialectally **qétwor**), as well as **(sm)gheslós**, are declinable.

a. The declension of **óinos**, **-ā**, **-om** has often the meaning of *same* or *only*. The plural is used in this sense; but also, as a simple numeral, to agree with a plural noun of singular meaning. The plural occurs also in phrases like **óinoi alterói-qe**, *one party and the other* (*the ones and the others*).

b. The declension of **sem-** (and o-grade **som-**), *one*, is as follows:

PIE <b>sem-/som-</b> , one			
NOM.	OM. sems sōms		
ACC.	sémm	sốmm	
GEN.	smós	somós	
DA.	sméi	soméi	
LI.	smí, sémi	somí/sốmi	

c. Dwo, two, and tréjes, three, are thus declined:

	dwo				trejes	5
	m.	n.	f.	m.	f.	n.
NOM.	dwo	dwói	dwā	tréje	es	trī
ACC.	dwom	dwói	dwām	trim	ıs	trī
GEN.	dwa	ósio	dwésās		tríjon	1
DA.	dwós	smei	dwésiāi (>*-ei)	-	tríbhio	os
LOC.	dwó	smi	dwésiāi		trísu	
INS.	dwó	smō	dwésiā		tríbhi	S

NOTE. **ámbho**, *both*, is sometimes declined like **dwo**, as in Latin.

d. **Túsntī**, a thousand, functions as an indeclinable adjective:

túsntī módois, in a thousand ways. kom túsntī wírōis, with a thousand men

- e. The ordinals are adjectives of the Fourth and Third Declensions, and are regularly declined.
- 6.3.2. Cardinals and Ordinals have the following uses:
- a. In numbers below 100, if units precede tens, the number is generally written as one word; as in f. **dwā(d)wīkṁtīqe**, *twenty one*; otherwise it is separated: **(d)wīkṁtī dwā(-qe)**.
- b. In numbers above 100 the highest denomination generally stands first, the next second, etc., as in English; as, 1764, túsntī septmkmtī sekskómta qétwor(-qe), or túsntī septmkmtī qétworsekskómtqe.

NOTE. Observe the following combinations of numerals with substantives:

wīkmtī óinos(-qe) wīrōs, or wīkmtī wīrōs óinosqe, 21 men.

dwo túsnti penqekmtī trídekm cénās, 2513 women.

- c. The Proto-Indo-European language had no special words for *million*, *billion*, *trillion*, etc., and these numbers were expressed by multiplication. In Modern Indo-European they are formed with IE common loan from Italic **sṃghéslī** (cf. Ita. \*(s)mighēlī > O.Lat. mīhīlī > Lat. mille), a derivative of **sm+ghéslos** meaning "a thousand"; as, **smghésliōn**, million, **dwighésliōn**, billion, **trighésliōn**, *trillion*, etc. For the word milliard, one thousand million, **smghesliárdos** can also be used.
- d. Fractions are expressed, as in English, by cardinals in the numerator and ordinals in the denominator. The feminine gender is used to agree with **pártis**, part, either expressed (with adjective) or understood (nominalized): two-sevenths, **dwấ séptmāi** (or **dwấ séptmāi pártes**); three-eighths, **tréjes októwāi** (or **tréjes oktowấi pártes**).

One-half is (dwi)medhjá pártis or (dwi)médhjom.

NOTE. When the numerator is one, it can be omitted and **pártis** must then be expressed: *one-third*, **tritá pártis**; *one-fourth*, **qetwrtá pártis**.

#### 5.5.4. DISTRIBUTIVES

1. Distributive Numerals are usually formed with the zero-grade forms and the suffix -ni.

NOTE. These answer to the interrogative **qóteni?**, how many of each? or how many at a time?

1.	<b>sémni</b> , one by one	20.	(d)wikṁtīni
2.	<b>dwí</b> ( <b>s</b> ) <b>ni</b> , two by two	21.	(d)wikmtīni sémni-qe, etc.
3.	<b>trí</b> ( <b>s</b> ) <b>ni</b> , three by three	30.	trīkṁtni
4.	qtúrni	40.	qetwrkmtni
5.	pnqéni	50.	penqekmtni
6.	sék(s)ni (older *suksni)	60.	sekskmtni
7.	septmni	70.	septmkmtni
8.	oktốni	80.	oktōkṁtni
9.	néwnni	90.	newnkmtni
10.	dékmni	100.	kmtmni
11.	sémni dékmni	200.	dukmtṁni
12.	dwíni dékmni	1.000	túsntīni
13.	tríni dékmni	2.000	dwíni túsntīni
14.	<b>qtúrni dékmni</b> , etc.	10.000	dékmni túsntīni

NOTE 1. The word for "one by one" can also be **sémgoli**, one, individual, separate, as Lat. singuli, from **semgolós**, alone, single, formed with suffixed **sem-go-lo-**, although that Lat. -g- is generally believed to be a later addition, i.e. proper MIE **sémoli**, from **sem-o-lós**.

NOTE 2. Suffixed **trísni**, *three each*, is found in Lat. *trīni*, Skr. *trīṇi*, giving derivative **trísnos**, *trine*, as Lat. *trinus*, as well as **trísnitā**, *trinity*.

2. Distributives are used mainly in the sense of *so many apiece* or *on each side*, and also in multiplications.

#### 5.5.5. NUMERAL ADVERBS

The Numeral Adverbs answer the question *how many times? how often?*, and are usually formed with **i** and sometimes a lengthening in **-s**.

1.	smís, once	20.	(d)wīkṁtīs
2.	dwis, twice	21.	(d)wīkṁtī sṁis-qe,
3.	<b>tris</b> , thrice	30.	trīkómti
4.	qéturs, qétrus	40.	qetwrkómti
5.	pénqei	50.	penqekómti
6.	sék(s)i	60.	sekskómti
7.	séptmi	70.	septmkómti
8:	óktōi	80.	oktōkómti
9.	néwni	90.	newnkómti
10.	dékmi	100.	kmtómi
11.	óindekmi	200.	dukmtómi
12.	dwódekmi	1.000	túsntīs
13.	trídekmi	2.000	dwis túsntīs
14.	<b>qetúrdekmi</b> , etc.	10.000	dékmi túsntīs

## 5.5.6. OTHER NUMERALS

1. The following adjectives are called Multiplicatives, formed in PIE with common suffix -*io*, and also dialectally in compound with PIE root **pel**<sup>159</sup>, as Greek and Latin zero-grade suffixed with -*plos*, or Germanic full-grade compound with -*póltos*, *fold*:

semiós, sem(g)olós, single, oinikós, unique; dwoiós, dwiplós/duplós, double, dwopóltos, twofold; treijós, triplós triple; trejespóltos, threefold; qetworiós, qeturplós, quadruple, qetworpóltos, fourfold, etc.; mltiplós, mltipléks, multiple, monoghopóltos<sup>160</sup>, manifold, etc.

NOTE. For **óinikos**, any, anyone, unique, compare Gmc. ainagas (cf. O.S. enig, O.N. einigr, O.E. ænig, O.Fris. enich, O.H.G. einag, Du. enig, Eng. any, Ger. einig), Lat. unicus. Compare also O.Ir. óen into Sco. aon, from **óinos**, as Welsh un.

- 2. Other usual numerals (from Latin) are made as follows:
- a. Temporals: **dwimós**, **trimós**, *of two or three years' age*; **dwiátnis**, **triátnis**, *lasting two or three years* (from **átnos**<sup>62</sup>); **dwiménstris**, **triménstris**, *of two or three months* (from **mēns**<sup>61</sup>); **dwiátniom**, *a period of two years*, as Lat. *biennium*, **sṃgheslátniom**, *millenium*.
- b. Partitives: dwisnásios, trisnásios, of two or three parts (cf. Eng. binary).
- c. Other possible derivatives are: **óiniōn**, unity, union; **dwísniōn**, the two (of dice); **prwimanos**, of the first legion; **prwimāsiós**, of the first rank; **dwísnos** (distributive), double, **dwisnāsiós**, of the second rank, **tritāsiós**, of the third rang, etc.
- NOTE 1. English *onion* comes from O.Fr. *oignon* (formerly also *oingnon*), from Lat. *unionem* (nom. *unio*), colloquial rustic Roman for a kind of onion; sense connection is the successive layers of an onion, in contrast with garlic or cloves.
- NOTE 2. Most of these forms are taken from Latin, as it has influenced all other European languages for centuries, especially in numerals. These forms are neither the only ones, nor are they preferred to others in this Modern Indo-European system; they are mainly indications. To reconstruct every possible numeral usable in Indo-European is not the aim of this Grammar.