

Deterrorizing Sanskrit

Vowels, diphthongs, and vowel gradation

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Vowels

The Devanagari script is based on consonant-plus-vowel signs where each consonant ends in *a* unless a marker tells otherwise.

Why *a* and not *e* or *o*?

Indo-European had short and long vowels, five each:

a, e, i, o, u

ā, ē, ī, ō, ū

Sound laws:

ie. *a/e/o* → *oi. a*

ie. *ā/ē/ō* → *oi. ā*

Vowels

Examples

- The Indo-European word for “honey” is

ie. **medhu-* → { oi. *madhu-*
ogr. *methu-* → FW *methane*

- The “middle one” is expressed by

ie. **medhyo-* → { oi. *madhya-*
ogr. FW *Meso-potamia*
lat. *medius*

- The PPP marker is ie. *to:

oi. *pati-tam* ~ lat. *peti-tum*

- Long vowels:

oi. *da-dā-mi* ~ ogr. *dí-dō-mi*

Half vowels

ie. *i* → oi. { *i*, bef. consonant
 y, bef. vowel

ie. *u* → oi. { *u*, bef. consonant
 v, bef. vowel

The hybrid nature of half vowels clearly shows in the sandhi rules:

- with *i*:
 - *phalāni*, but *phalāny akhādat*
 - *gacchāmi*, but *gacchāmy aham*
- with *u*:
 - *bhavatu*, but *evam bhavatv iti* ("so let it be") where *iti* stands for 'end of quote'
 - *jayatu*, but *jayatv āryaputraḥ* ("may my lord be victorious")

Diphthongs

On top of

ie. $a/e/o \rightarrow oi. a$

ie. $\bar{a}/\bar{e}/\bar{o} \rightarrow oi. \bar{a}$

you can find *e* and *o* in Sanskrit. They result from

ie. $ai/ei/oi \rightarrow oi.$ { \hat{e} (normally written as *e*), bef. consonant
ay, bef. vowel

ie. $au/eu/ou \rightarrow oi.$ { \hat{o} (normally written as *o*), bef. consonant
av, bef. vowel

and

ie. $\bar{a}i/\bar{e}i/\bar{o}i \rightarrow oi.$ { $\hat{a}i$ (normally written as *ai*) bef. consonant
ay, bef. vowel

ie. $\bar{a}u/\bar{e}u/\bar{o}u \rightarrow oi.$ { $\hat{a}u$ (normally written as *au*) bef. consonant
av, bef. vowel

Diphthongs

normal writing	our writing
e	ê
o	ô
ai	âi
au	âu

- Distinguish *oi*. *ê* and *ô* form i.e. *e* and *o*, respectively.
- *âi* and *âu* go back to *ie*. long diphthongs which helps to understand some sandhi rules.

Vowel sandhi rules

The original diphthong is still visible before vowels:

- From e.g. **nei* we have
 - *nêtr* “leader” and
 - *nayati* “he leads”
- Compare stem *gô*, f. (“cow”) with
 - instr. pl. *gôbhîs* (*ô* before consonant) and
 - instr. sg. *gavâ* sg. (*av* before vowel).

Vowel sandhi rules

- Short *i*-diphthong in second word:

atra ēva (without sandhi)

→ *atra aiva* (*ai* as short diphthong with *i*)

→ *atrāiva* (the two *as* become one long *ā*)

= *atraiva* (usual spelling)

Short *i*-diphthong in first word:

sarvē iti (without sandhi)

→ *sarvay iti* (before vowel)

and then sometimes

→ *sarva iti* (*y* is “weak” and drops here between words)

= *sarva iti* (usual spelling the same)

Vowel sandhi rules

- Short diphthong with *u* in second word:

sā ḫodanam pacati (without sandhi)

→ *sā audanam pacati* (*au* as short diphthong with *u*)

→ *sāudanam pacati* (the two *a*s become one long *ā*)

= *saudanam pacati* (usual spelling)

- Long diphthong with *i* in first word:

tasm̄ai adadāt (usual spelling without sandhi)

= *tasm̄ī adadāt* (*āi* as long diphthong with *i*)

→ *tasm̄y adadāt* (before vowel)

and then sometimes

→ *tasm̄ā adadāt* (*y* is weak and drops here between words)

= *tasm̄ā adadāt* (usual spelling the same)

Vowel sandhi rules

- Long diphthong with *u* in first word:

ubhau ēva (usual spelling without sandhi)
= *ubhāu ēva* (âu as long diphthong with *u*)
→ *ubhāv ēva* (before vowel)
= *ubhāv ēva* (usual spelling the same)

Vowel sandhi rules

ê and ô from sandhi rules

example a)

- *êvam bhava iti vadati* (without sandhi)
- → *êvam bhavêti vadati* (sandhi rule *ai* → ê)

example b)

- *ca iti* (without sandhi)
- → *cêti* (sandhi rule *ai* → ê)

example c)

- *dêva ïśvaras* (compound “god, the lord”, without sandhi)
- → *dêvêśvaras* (sandhi rule *aī* → ê)

Vowel sandhi rules

ê and ô from sandhi rules

example d)

- *mêgha udakam* (compound “cloud water —> rain”, without sandhi)
- → *mêghôdakam* (sandhi rule *au* → *ô*)

example d)

- *a-va-uc-a-t* (reduplicated aorist “he spoke”, without sandhi)
- → *a-vôc-a-t* (sandhi rule *au* → *ô*)

Vowel sandhi rules

First but:

Three simple sandhi rules (indeed, one set of rules) do **not** fit in this pattern:

$\bar{a} + i/\bar{i}$ → \hat{e} (rather than \hat{ai})

$\bar{a} + u/\bar{u}$ → \hat{o} (rather than \hat{au})

$\bar{a} + r$ → ar (rather than \bar{ar})

For example,

muninā iha (without sandhi)

→ *muninēha* (sandhi rule $\bar{a} + i \rightarrow \hat{e}$)

instead of expected *muninâiha* (wrong!!)

Vowel sandhi rules

Second but:

The imperfect augment short (!) *a* before *i/ī/u/ū* does not lead to *ē* or *ō*, but *āi* and *āu*, respectively, instead. Examples:

- *na īkṣatē* ("he does not see") → *nēkṣatē*, but
- *a-īkṣat* ("he did not see") → *āikṣat*
- *tena uktam* ("it has been said of him") → *tenōktam*, but
- *a-uṣ-ma* (imperfect "we wished") → *āuṣ-ma* (from *vaś*, weak form)

Examples of vowel sandhi rules

- *anvartha* ("appropriate") ← *anu* ("along") + *artha* ("purpose, sense, wealth")
- *vyartham* ("in vain") ← *vi* ("apart, away") + *artha* ("purpose, sense, wealth")
- *āśvaśva* ("to have fast horses") ← *āśu* ("fast") + *aśva* ("horse")
- *bhvādigaṇas* ("*gāṇa* consisting of *bhū* etc.") ← *bhū* ("to be") + *ādi* ("beginning") + *gāṇa* ("cohort, flock, word group")

Examples of vowel sandhi rules

- *vēdāntas* (“end of Vedic literature”) ← *vēda* (“theological knowledge, Veda”) + *anta* (“end”)
- *vātāyanam* (“window”) ← *vātas* (“wind”) + *ayanam* (“going, motion, hallway”, ← *i*)
- *rāmāyanam* (name of Indian epic) ← *rāma* (“name of Indian hero”) + *ayanam* (“going, motiong, hallway”)
- *sārthas*, m. (“caravan”) ← *sa* (“together with”) + *árthas* (“wealth”)
- *sānandas*, m. (“he with delight”) ← *sa* (“together with”) + *ānandas* (“delight”)
- *bhūtārthas*, m. (“fact, issue”) ← *bhūtā* (PPP of *bhū*) + *árthas* (“meaning, purpose”)
- *gatāsu* (“with life gone away, dead”) ← *gata* (PPP of *gam*) + *asu* (“life”)

Examples of vowel sandhi rules

- *sam-upēta* (“provided with”) ← *sam* + *upa* + *ita* (PPP of *i*)
- *sēt* (“with *i*”) ← *sa* (“together with”) + *it* (traditional expression for oi. *i*)
- *vēt* (“with or without *i*”) ← *vā* (“or”) + *it* (traditional expression for oi. *i*)
- *prētyēha* (“in the hereafter and here”) ← *pra-i* (“to go forward, to die”) + *tya* (gerundive suffix) + *iha* (“here”)

Examples of vowel sandhi rules

- *atīta* ("gone by") ← *ati* + *ita* (PPP of *i*)
- *atīva* ("exceedingly, very") ← *ati* + *iva*
- *vi-parīta* ("perverse, false") ← *vi* + *pari* + *ita* (PPP of *i*)

and

- *sūktam* ("well said, hymn") ← *su* ("good") + *uktam* (PPP of *vac*, "to say")
- *bahūtkṣēpam* ("having thrown up ones arms") ← *bahu* ("arm") + *ud* (preposition, "up") + full grade of *kṣip* ("to throw") + gerund ending *am*

Examples of vowel sandhi rules

- *êkôna vimśati* ("20-1, 19") ← *êka* ("one, single") + *ūna* ("incomplete")
- *hitôpadêśas* ("20-1, 19") ← *hita* ("well-being", see *dhā*) + *upa-dêśas* ("teaching", see *dīś*)
- *a-voc-a-t* (aorist, 3. pers. sg. of *vac*, "he said") ← *a-va-uc-a-t*

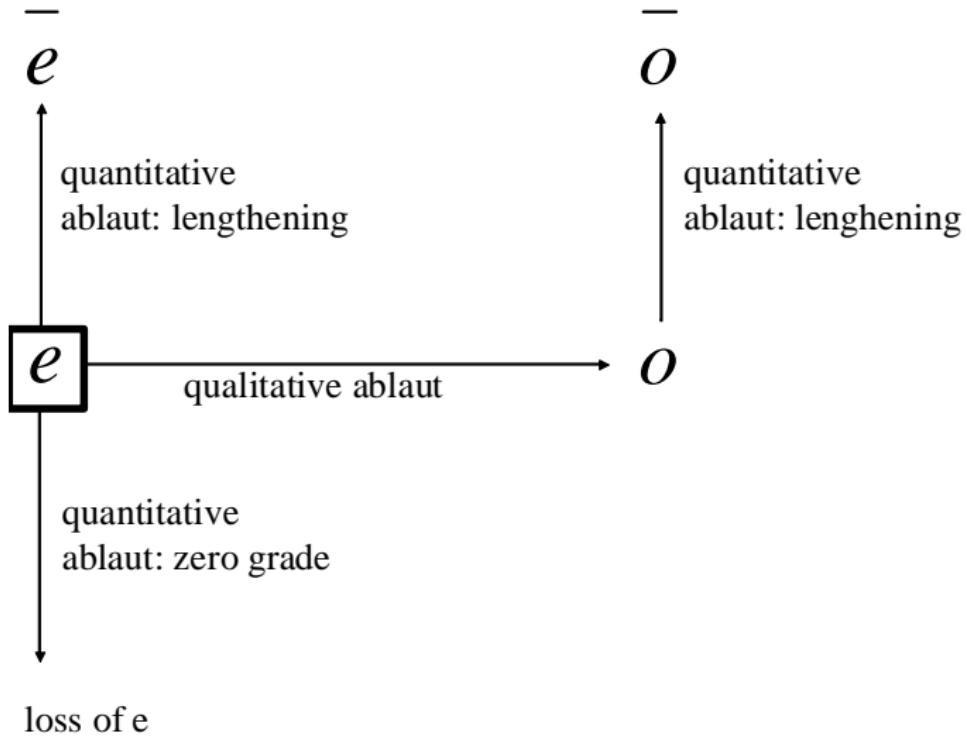
and

- *êkâikaśas*, adv. ("one by one") ← *êka* ("one") + *êka* + *śas* ("adverbial suffix")

and

- *vanaukas* ("living in the forest, ascetic") ← *vana* ("forest") + *okas*, n. ("living place, homeland")
- *divaukas* ("living in heaven, god") ← *diva* ("heaven") + *okas*, n. ("living place, homeland")
- *uttamaujas* ("being of superior strength") ← *uttama* ("highest, best") + *ojas*, n. ("strength")

Vowel gradation (ablaut)



Vowel gradation (ablaut)

- *svara* (this is our zero grade)
- *guṇa* (normal grade *e* or *o*-grade)
- *vṛddhi* (lengthened *e*-grade or the lengthened *o*-grade *ō*)

Example:

- *budh* is zero grade (also PPP: *bud-dha*)
- *bôdh-a-ti* is full grade
- *bâud-dha* (“concerning understanding, Buddhist”) is lengthened grade

Another example:

- *smṛ* is zero grade (also PPP: *smṛ-ta*)
- *smar-a-ti* is full grade

Vowel gradation (ablaut)

	just e	half vowel y	half vowel v
zero gr.	ie. - → oi. -	ie. i → oi. i	ie. u → oi. u
full gr.	ie. e → oi. a	ie. ei → oi. ê/ay	ie. eu → oi. ô/av
length. gr.	ie. ē → oi. ā	ie. ēi → oi. âi/ay	ie. ēu → oi. âu/āv

	r	n
zero gr.	ie. $\overset{\circ}{r}$ → oi. $\overset{\circ}{r}$	ie. $\overset{\circ}{n}$ → oi. a
full gr.	ie. er → oi. ar	ie. en → oi. an
length. gr.	ie. ēr → oi. ār	ie. ēn → oi. ān

Vowel gradation (ablaut)

Examples:

- ie. *es “to be”
 - full grade *as-ti* (“he is”, compare Latin *est*)
 - zero grade *s-anti* (“they are”, compare Latin *sunt*).
- oi. *i* “to go”
 - full grade *êti* (“he goes”, with ê before consonant)
 - zero grade *y-anti* (“they go”, with consonant *y* before vowel).
- *vṛdh* (“to grow”)
 - full grade *vardhatê*
 - zero grade *vṛddhi* (funny)
- *man* (“to think”), also lat. FW *mental*
 - zero grade *matis* (“thought, idea”) and PPP *mata*
 - full grade *manas* n.
 - lengthened grade *mānah* (“opinion, intent”)