
Basics of Sanskrit Letters (with Tamil and Malayalam Letters)

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Notes:

1. We have started referring to Books like PrAtiSAkhyam, (English Translation and Comments by Mr. W.D Whitney), PAnini's AshtAdhyAyl published by Sindhu Charan Bose (originally by Indian Press Benaras in 1891), translated in English by Shri Chandra Vasu.
2. We are also trying to understand the works of VyAsa SlkshA and PAnini SlkshA with available English translation.

Our Articles will keep undergoing periodical changes with reference our learning and understanding. We request readers to check for new versions uploaded in the www.vedavms.in website. We request readers to consider our Articles and discussion papers at a basic level and they need to refer to expert books on Vedic Grammar, Sanskrit Grammar and commentaries by Scholars for acquiring higher level of knowledge.

We note that PrAtiSAkhyA Author in his work (period much earlier to PAnini) has recorded the difference in application of grammar rules or different opinions of other Saints/Sages before or during his time. Some great Rishis whose rules or differing opinions quoted in Taittriya PrathiSAkhyA work are vAlmIki, ArtreyA, PauSkarasAdi, PIAkSi, KaundinyA, GautamA, SaityAyana, SamkRutya, UkhyA, KANDamAyanA, AgnivEShyA , PIAksAyanA, HaritA ,SAnkhAyanA,MimAmSA and few other Rishis.

Abbreviations for reference will be used as below:

PrAtiSAkhyA -	PS
PAnini's ashtAdhyAyl –	PA
VyAsa SlkshA –	VSI
PAnini SlkshA -	PSI

1 Sanskrit Letters

1.1 Vowels:

Vowels are called SvarAH (स्वराः) (plural) in Sanskrit. See the table below.

Srl No	Sanskrit	Tamil	Malayalam		General English Transliteration representation
1	अ	அ	അ		a
2	आ	ஆ	ആ		aa or A
3	इ	இ	ഇ		i (or e)
4	ई	எ	ഈ		I (or ee)
5	उ	உ	ഉ		u
6	ऊ	ஊ	ഊ		U
7	ऋ	* ரு	ஃ		Ru
8	ॠ	* ரு	ஃ		RU
9	ଲୁ	* ଲୁ	* ଲୁ		IRu

10	ଲୁ	* ଲୁର୍ଖ	* ଲୁହୁ		IRU. This letter is not recognized in some classical / ancient texts
10A	*	ଟ	ଟୁ		ey (ae) Not in Sanskrit (short in Tamil, Malayalam etc)
11	ଏ	ଏ	ଏୟ		Ey (aE)
12	ଐ	ଐ	ଐୟ		ai
12A	*	ଔ	ଔ		O Not in Sanskrit (short in Tamil, Malayalam etc)
13	ଓ	ଓ	ଓ		O
14	ঔ	ଉଳା	ଉଳ		au
15	অং	*অং	অং		am
16	অঃ	*অঃ	অঃ		a: or aH

The * represents that letter is **not** available or an integral part or used in that language. The letters typed in Tamil/Malayalam represents how it is read.

କ୍ରୁ (*କ୍ରୁଗ୍ରୁ) shall be pronounced as in Crystal , Krushna, “Rishi” or “Rutu”

The lips do not converge when we say this letter or any consonant formed with this letter.

The Ayuda letter (written as “:” in Sanskrit) and is represented as “ঃ” in Tamil fonts. In other Indian languages it is represented in script as “ঃ”.

This “ஃ” letter sounds similar to “ஓ” part of “அஓ” in Tamil scripts.

1.1.1 Short Vowel (हस्त स्वरः)

These letters have short sound with no elongation.

The time unit of uttering one such letter (हस्त स्वरः) is defined as one mAtra.

ਅ ਇ ਤ ਰਾ ਲੁ

ଓ ॥ ৭ ॥

ଅ ଥି ଉ ରୁ* ଲରୁ*

1.1.2 Long Vowels (दीर्घ स्वराः)

These letters have sound with an elongation equal to twice that of short vowels. The time value of these letters is two mAtrAs.

ଆ ଇ ଊ କ୍ରୁ (ଲ୍ଲ *)

അത് ഇന്ത ഉം ഫോ * (No “dheerga “IRu” in Malayalam)

ஆ ன ஊ * * (No “RU” and “Ru” in Tamil) but it is represented in modern text/books as *இ*. **இ** in *italics* or *italics and bold*

(ਏ ਏ ਓ ਔ) (ੱਖ ਨਾਲ ਇ ਵੱਡਾ) (ਗ ਜ ਛ ਝ ਝੁਣਾ) are called

Misra SvarA (मिश्र स्वराः) (Diphthong in English) which are long/dheerga letters in Sanskrit.

These are formed with the combination of two vowels.

अ + इ = ए ; आ + ई = ऐ ; अ + उ = ओ ; आ + ऊ = औ

അരു + ലൈ = എഴു ; അരു + ലൈ = ബെഴു ; അരു + ഉ = ദൗ; അരു + ഉ = തൗ

அ + இ = ஏ, ஆ + ஈ = ஐ, அ + உ = ஒ, ஆ + ஊ = ஓளா

In these Misra SvarA, there is an ‘a’ (அ) (அ) sound for **one-fourth of the time (0.5 maatras)** and the remaining letter respectively (ஃ, இ, உ, ஊ) have three-fourth of the time (1.5 mAtra) (PS Chapter 2.26-29)

1.1.3 Protracted Vowels (Pluta) (ப்ளுதம்)

Taittirlya PrAtiSAkhy gives three extra Vowels of A3, I3 and U3 are protracted vowels. That is, they have three (or more) mAtraas. It is also mentioned in PAnini’s work that the Pluta of three maatras(or more)* or protraction of the vowel is applicable **only to the vowel sounds** (ଆ, ଇ ଊ), (அ, இ, உ), (ஆ, ஈ, ஊ).

1.1.4 Support Vowels:

அ̄, அ̄: (அூ, அோ) (அம், அஃ:) are called support vowels.

அ̄ (அூ) (அம்) is called AnuswAra; (அனுஸ்வார) (அனுஸ்வர*) அம்

அ̄: (அோ) (அஃ:) is called visarga; (விஸர்஗) (visarjanlya in classic texts)

When “aha” is said, the “ha” part in “aha” gets only half-time scale (the scale is termed as “mAtra” here) and the mAtra for ‘aha’ is one and a half.

அ̄ (a+m) = one +half mAtra

PS refers that there are 16 Vowels or Swaras. Three letters in the table above in 1.1.3 are not recognized in classical text and three Pluta sounds are not indicated above thus a total of 16 vowels only.

Rules for uttering the aksharas - as in “PS”:

- In forming ‘a’- vowel (sound अ), the lips and jaws must not be too nearly approximated (coming together, near or converge but not touching) nor too widely separated (Rule 2.12).
- Also for ‘O’ vowel (sound ओ) but lips will be approximated (Rule 2.13/14).
- In utterance of ‘e’ vowel (sound इ) the middle of the tongue is approximated to the Palate and also in ‘ae’ (sound ए) (Rule 2.21).
- In uttering ‘ae’, (sound ए) lips are protracted (widen/separated), jaws are nearly approximated closer and one touches borders of the upper back jaws with the edges of the middle of the tongue (Rule 2.15/16/17)
- For uttering Ru.RU, IRu (sound रु, िरु लू) the jaws are also closely approximated and the tip of the tongue is brought into close proximity of the upper back gums (Rule 2.18)
- In ‘u’ (sound उ) vowels there is approximation of lips (Rule 2.22)
- In the absence of special direction, the tongue is thrust down forward (Rule 2.20). Practice saying **a, aa, u, uu, ae, o, au** when the tongue does not touch any part of the mouth, the tongue comes down and thrusts lightly forward and down to enable clear flow of air or sound.
- In cases with an interval of the one preceding.
Now we say ka, ta, Ta, pa or other Consonants, the first part has contact with the source of sound with the tongue (**explained below**). Then the tongue is thrust forward down or comes down as explained in rule above.

Some of the Rules from PS Chapter with respect to Sounds are given below:

1. By the setting in motion air by the body at the junction of the throat and breast. (Rule 2.2)
2. Parts that give audible quality to the sound are breast, throat, head, mouth and nostrils (Rule 2.3)
3. When throat is closed tone is produced (Rule 2.4)
4. When it is opened breath is produced (Rule 2.5)
5. When in the intermediate state ‘h’- sound is produced (Rule 2.6)

Classification available from PA are given below:

1. AByantra prayatna is the mode of articulation preparatory to the utterance of the sound. This is what we come across as guttural (Throat), labial (Palate), cerebral (Head), dental (Teeth), palatal (Lips), nasal (nose). These indicate the contact points for emanation of sound. (**Explained below.**)
2. bAhya prayatna is the mode of articulation at the close of the utterance of the sound. Here we get the first division as (with alternative names used in English and Sanskrit sources)
 - **Hard Consonant, Surd, aGoSha, svAsa letters**
 - **Soft Consonant, Sonant, Gosha, nAda letters**
3. The second division of bAhya prayatna gives us
 - a. **Aspirate or Maha prAna**
 - b. **Non-aspirate or alpa prAna**

1.2 Consonants: (व्यञ्जनानि)

There are 25 **Consonants**. These are referred to as “**Mutes**” by Western Authors.

Sanskrit Consonants

क ख ग घ ङ्

च छ ज झ ञ

ट ठ ड ढ ण

त थ द ध न

प फ ब भ म

य र ल व श स ष ह ഠ*

* ഠ is not considered a classical Sanskrit letter by many.

But it is recognised in SikSha for pronouncing words like agnimILE.

Tamil Consonants

க க₂ க₃ க₄ ங்

ச ச₂ ஜ் ஜ₂ ஞ

ஞ ஞ₂ ஞ₃ ஞ₄ ன்

த த₂ த₃ த₄ ந்

ப ப₂ ப₃ ப₄ ம்

ய ர ல வ ழ* ற* (*not in Sanskrit) ள ன*

Malayalam Consonants

ക വ ശ റ ഷ ള

ച ത ര ജ യ ണ

സ ഓ യ റ ള

ത മ ബ ധ ന

പ ഹ ബ ഫ ഭ

യ റ ല വ സ ശ ഷ റ ണ കു ഞ കു ഞ *
* indicates variant forms

1.2.1 Notes on Consonants:

In Tamil language there are no four variants of ka, ca, Ta, ta and pa. There is only one ka, ca, Ta, ta, pa. So how to pronounce the word and learning the sound effect becomes an issue for a new Veda learner.

In Malayalam, there are distinct four variants of ka, cha, Ta, ta and Pa and no "IRu" and "IRU" (but Ru and IRU have modern printed form)

Important Tip: Please observe that the vibration of the sound moves more from the tip of the tongue/front portion to the back of the tongue and throat as the variants move from Serial numbers of 1.2 above.

1.2.2 Source of Sound

There are five basic distinct places from which sound emanates in Sanskrit. They are:

- a) The **soft palate**. The soft palate is the fleshy region at the very back of the mouth.
- b) The **hard palate**. The hard palate is the bony region on the top of the mouth.

c) The area behind the **hard bump** on the roof of the mouth. This bump sits behind the teeth.

d) The **base of the teeth**.

e) The **lips** (touching each other)

The understanding of this helps to create the right sound in Sanskrit for the learner. This is similar in many Indian Languages. The Sanskrit names for the Groups for Consonants indicate the place of sound generation/reverberation.

1.2.3 Gutturals: (कप्ठा) (ka varga)

These Consonants are referred as Gutturals in English. The sound emanates through use of back of the tongue touching the soft palate. (back of the mouth). In Sanskrit KaNTha means throat/(neck).

PS - In ka series, one makes contact with the root of the tongue at the root of the jaws (Rule 2.35)

Group 1 Sanskrit	क	ख	ग	घ	ङ
English Representation	ka	kha	ga	gha	~nga (nasal)
Tamil	க	*க ₂	*க ₃	*க ₄	ங்
Malayalam	ക	ഖ	ഗ	ഘ	ങ്ങ

The **first two** letters of 'ka' varga are classified as **Hard Consonant, Surd, aGoSha, svAsa** letters or in Sanskrit **खर व्यञ्जनानि** (different names used in reference in different sources)

The rest three are classified as **Soft Consonants, Sonant, Gosha, nAda letters** or in Sanskrit **मृदु व्यञ्जनानि**.

Note: Readers shall note these differing names when they refer to Grammar/Vedic books of Indian and Foreign Authors.

1.2.4 Palatals: (तालू) (ca varga)

These Consonants are referred as Palatals in English. The sound emanates using the flat of the tongue against the back of the hard palate (front of mouth behind the teeth). In Sanskrit the word tAlu means Palate.

PS - In ca series, with the middle of the tongue on the palate. (Rule 2.36)

Group 2	च	छ	ज	झ	ञ
English Representation	ca	cha	ja	jha	gya (nasal)
Tamil	ச	*ஈ ₂	*ஐ	*ஓ ₂	ஏ
Malayalam	ച	ഛ	ജ	ഝ	ഞ

The first two letters of ‘ca’ varga are called Hard Consonants.

The rest three are Soft consonants.

1.2.5 Cerebrals: (मूर्धन्) (Ta varga)

These Consonants are referred as Cerebrals in English. The sound emanates by using the tip of the tongue against the top of the hard palate. In Sanskrit, mUrDhan means forehead or head depending on the context of the statement.

PS - In Ta series the tip of the tongue is rolled back in the head (Rule 2.37) meaning towards the “cave” behind upper jaw behind the teeth.

Group 3	ट	ठ	ડ	ඩ	ණ
English Representation	Ta	Tha	Da	Dha	Na

Tamil	ஞ	*ஞ் ₂	*ஞ் ₃	*ஞ் ₄	ஞன்
Malayalam	ഞ	o	ഞ	ഞ	ഞൻ

The first two letters of ‘Ta’ varga are called Hard Consonants.

The rest three are Soft consonants.

1.2.6 Dentals: (दन्त) (ta varga)

These Consonants are referred as Dentals in English. The sound emanates by using the tip of the tongue against the top front teeth at its lower part. In Sanskrit danta means teeth.

PS - In ‘ta’ series with the tip of the tongue at the root of the teeth (Rule 2.38)

Group 4	த	ஈ	஢	ஔ	ந
English Representation	ta	tha	da	dha	na
Tamil	த	*த் ₂	*த் ₃	*த் ₄	ந/ ன (notes)
Malayalam	ഠ	മ	ബ	ഡ	ന

The first two letters of ‘ta’ varga are called Hard Consonants.
The rest three are Soft Consonants.

Notes: In Sanskrit there is only one ‘na’ - न. In Tamil there are two ‘na’s “ந” and “ன”. The First “ந” which is light in sound and the other one ”ன” which has little more stress. Please note that both get used depending on how the word is represented in Tamil. A sentence/word can only begin with ந (in Tamil). We write “Annam” and “manam” in Tamil as அன்னம், மனம்.
While reading Sanskrit texts or Vedas, the ‘na’ must be pronounced in the one way only as ந.

1.2.7 Labials: (ओष्टौ) (pa varga)

These Consonants are referred as Labials in English. The sound emanates by using the lips. The lips get in touch always. In Sanskrit OshTa means lip. OshTau is dual, meaning lips.

PS - In ‘pa’ series, with two lips (Rule 2.39)

Group 5	प*	फ*	ब	भ	म
English Representation	pa	pha	ba	bha	ma
Tamil	ப	*ப ₂	*ப ₃	*ப ₄	ஃ
Malayalam	പ	ഫ	ബ	ഭ	മ

The first two letters of ‘pa’ varga are called Hard Consonants. The rest three are Soft Consonants.

The fifth letter in each of the group is called **Nasal letters** as they tend to have a nasal twang while pronouncing them.

PS - Anusvaras and “last mutes” (i.e. 5th letter in consonant varga) are nasal (Rule 2.30).

PS - Rule 49/50 Nasals have nose as the place of production or produced with mouth and nose.

PA - Book1 Chapter 1 Rule 8 that which is pronounced by the nose along with the mouth is called Anunaasikam. (Nasal)

PS - The organ of production of Nasal is same as in respective Consonant varga. (Rule 2.51). Nasal quality is given by unclosing the nose (Rule 2.52)

1.3 Other Consonants:

The other Consonants are grouped into three. They are given below:

1.3.1 Semi-Vowels: (अन्तस्था)

The word antasthA means standing at end.

	य	र	ल	व	
English Representation	ya	ra	la	va	
Tamil	ஃ	ஃ	ஃ	ஃ	
Malayalam	ঃ	ঃ	ঃ	ঃ	
Place of production	'ca' varga	'Ta' varga	'ta' varga	'pa' varga	

All the above four letters are **Soft** Consonants.

Note: Tamil has an additional ഃ which has a stress. This ഃ is not used/available anywhere in Sanskrit. But 'tra' sound comes from usage of the four variants of 'Ta'.

Rules from PS

1. In 'ya', the two edges of the middle tongue upon the palate (Rule 2.40)
2. In 'ra' with the middle tip of the tongue at the back of the root of the teeth (Rule 2.41)
3. Also in 'la' at the roots of the teeth (Rule 2.42)
4. In 'va', with the edges of the lips along with the teeth (Rule 2.43)

1.3.2 Sibilants: (உஷ்மன்)

The word Ushman means Sibilant in linguistic context. They produce a ‘ssh’ sound of air going out of the mouth.

	ஶ	ஷ	ஸ		
English Representation	Sa	sha	sa		
Tamil	*உடி	*ஒநி	*ஸி		
Malayalam	ശ	ഷ	സ		
Place of Production	‘ca’ varga	‘Ta’ varga	‘ta’ varga		

All these three are Hard Consonants.

PS - The spirants are in order produced in the places of the mutes, but the middle of the producing organ is unclosed. (see table above 1.3.2)

Note: There is no “Sa” (உடி) in Tamil language. The above letter is used specifically for representing “Sa” in Tamil Veda and Sloka books which is in original Sanskrit.

In Traditional Tamil ஸி, ஒநி, ஷி are also not there. These have come in to represent sounds that are taken from other languages, especially Sanskrit.

There is a separate Grantha Lipi that was evolved to represent and publish Vedic Texts. Many Paatashalaas teach Tamil Vedic students through Grantha Lipi. It is also used in some parts of Kerala. Grantha Lipi has mixed characteristics of Tamil and Malayalam. Some letters have distinct shape or representation.

1.3.3 Aspirate: (सोष्मता)

The words sOshmataa means aspiration, heat and warmth.

	ह				
English Representation	ha				
Tamil	ஹ				
Malayalam	ഹ				

This is a soft consonant.

PS - Throat is the place of production of visarjanlya (Visargam) and 'ha'. Some authors say same as vowels 46/47

Note: There is no हूँ, घँ* in Sanskrit. हूँ, घँ* is used in Tamil and Malayalam only.

Malayalam as a language has got four variants of consonant letters and हूँ, घँ* so it is completely friendly to learn both Devanagari and Dravidian languages as per some Scholars.

Notes from PA

- Letters whose place of utterance and effort are equal are called Savarna or homogeneous letters.
- The quality of effort (prayatna) is classified as internal and external
- This internal effort is sub-divided into five class of efforts
 - a. spRuShtam or complete contact of the organs: All consonants fall under this category. There is complete contact of the tongue with throat, palate, dome of the palate, teeth and lips
 - b. IShtya spRuShtam or slight contact – ya,ra,la va
 - c. vivRutam or complete opening – vowels
 - d. IShad vivRutam – slight opening sa,Sa,Sha
 - e. saMvivRutam – contracted

External classification is given above already as AByantra prayatna and bAhya prayatna.

1.3.4 Classification of Vowels into Groups:

Vowel Letter	Classification into Group
ଓ ও অ আ ই এ ই	Guttural - KanTya
ঝ ঝঁ ছি ন ল লঁ	Palatals - Taalu
ত ত্ত তু ত্তু তু তু	Labial - Osthau
ঝঁ ঝ রু রু ষ ষ	Cerebral -Murdhan
ল লু লঁরু লঁরু লু লু	Dental - Dantya
ঞ ঞে ঙ জি ষি বিপু	Palato- Guttural - KanTya Taalu
ও ঔ ছ ছে ও ও	Labio Guttural - KanTya Oshtya

PS Comments

- In Vowels and Sonant sounds the emission is sound (Rule 2.9)
 - In Surd/Hard consonants it is breath. (Rule 2.10)

1.3.5 Maha prANA and Alpa prANA

Consonants with breath are termed as Maha prANA. (**Aspirates**) and without breath as Alpa-prANA (**non-aspirates**)

The 1st and 3d letters of each varga (group), together with the 5th [nasal] are Alpa prANA.

The rest of the letters are Maha prANA. (i.e. 2nd and 4th letter of a varga)

The semivowel group letters are Alpa prANA.

When we say 'ka' or 'ga' (1st and 3rd letter of ka/ga varga) it is light without any distinct flow of air or stress. It is Alpa prANA.

When we say 'kha' or 'gha', (2nd and 4th letter of ka/ga varga) there is a distinct breath/air flow in uttering the word. This is Maha prANA.

The second and fourth letters in a varga.

PS Note: There is more breath for Surd/Hard Consonants than the corresponding Sonant/Soft Consonant (Rule 2.11) What is intended here is there is more air flow in the Hard Consonant Aspirate (2nd letter of a varga like Kha, Cha, Tha, tha, Pha) than in Soft Consonant Aspirate (4th letter of a varga like gha, jha, Dha, dha, Bha).

1.4 Other Letters

Note: The following letters are used in normal Sanskrit texts.

The first three (in table below) are Conjuncts (**संयुक्त अक्षर**). This is explained below in the next section.

	ક્ષ	ત્ર	જ	ં*	
English Representation	ksha	Sra	Jgya(nasal)	La	
Tamil	*க்ஷ	* ம்ர	*ஜ்ஞ	ஞ	
Malayalam	ക്ഷ	ശ	ജ്ഞ	ং	

କ୍ଷ is formed by adding ଖ + ଷ; କ୍ଷା = କ୍ତ୍ରୀ + ଷା ; କ୍ଷି = କ୍ତ୍ରୀ + ଇ

ଶ is formed by adding ଶ୍ରୀ + ର ; ଶଂର = ଶ୍ରୀ + ର; ଶର = ଶ୍ରୀ + ର

ଜ୍ଞ is formed by adding ଜ୍ଞୀ + ଞ ; ଜ୍ଞାନ = ଜ୍ଞୀ + ନା; ଜ୍ଞାନି = ଜ୍ଞୀ + ନି

ଠ* is not a conjunct but a special consonant.

This does not find place in some books as a part of standard letters.

This letter is not used in classical Vedic texts.

Example 'agnimeeLe' is represented as aginmeeDe (third Da).

But some siKshas recognise use of La for Da.

1.5 Conjunct Letters

Conjuncts are letters formed with a combination of two or more letters. They are Vowel based conjuncts and non-vowel conjuncts.

Swarayukta Akshara/Consonants(स्वरयुक्त अक्षर) are formed by a combination of a Consonant with a Vowel. The Basic letters in Sanskrit seen above in 1.2 and 1.3 are Swarayukta Aksharaas.

1.5.1 Vowel based Conjuncts (Swarayukta Akshara) (स्वरयुक्त अक्षर)

Vowel based conjuncts are letters formed with a combination of a Consonant and a vowel; the vowel sound comes always at the second part of the Conjuncts. Please note that to form any Conjunct basically a Vowel (sound) is required.

Vowel : ଅ ଆ ଇ ଈ ଉ ଏ ଐ ଓ ଔ ଅଂ ଅଃ ଋ (ଋ*)

Consonant : କ୍ କ କା କି କି କୁ କୁ କୈ କାଁ କାଁ କଂ କଃ କୃ କୃ

1.5.2 Example of 'ka' varga letters

କ୍ + ଅ = କ , କ୍+ ଆ = କା , କ୍+ ଇ = କି, କ୍+ ଈ = କି

କ୍ + ତ = କୁ , କ୍+ ଊ = କୂ , କ୍+ ଏ = କେ , କ୍+ ଐ = କୈ .

କ୍ + ଓ = କୋ , କ୍+ ଔ = କୌ, କ୍+ ଅଁ = କ୍ଞ , କ୍+ ଅଁ: = କଃ

କ୍ + ଋ = କୃ , କ୍+ ଋୟ = କୃୟ,

କଁ + ଅ = କି , କଁ + ଆଁ = କାି , କଁ + ଇଁ = କିି , କଁ + ଈଁ = କିି

କଁ + ଉଁ = କୁି , କଁ+ ଊି = କୂି , କଁ + ଏଁ = କେି , କଁ + ଐି = କୈି.

କଁ + ଛଁ = କୋି, କଁ+ ଛୀଳା = କେଳା, କଁ + ଅମଁ = କମି, କଁ + ଅଁଃ = କଃି

କଁ + ରୁଁ = କୁରୁ , କଁ + ରୁିୟ = କୁରୁିୟ

କୁଁ + ଅୟ = କୁି, କୁଁ + ଆୟ = କୁାି, କୁଁ + ଇୟ = କୁିି, କୁଁ + ଈୟ = କୁିି

କୁଁ + ଉୟ = କୁିୟ, କୁଁ + ଊୟ = କୁିୟ, କୁଁ + ଏୟ = କେିୟ, କୁଁ + ଐୟ = କୈିୟ .

କୁଁ + ଓୟ = କୋିୟ, କୁଁ + ଔୟ = କୋିୟ, କୁଁ + ଅମ୍ୟ = କମିୟ, କୁଁ + ଅଁଃୟ = କଃିୟ

କୁଁ + ଣ୍ୟ = କୁଣ୍ୟ , କୁଁ + ଷ୍ୟ = କୁଷ୍ୟା

PS -A Short/hrasva consonant has half the quantity of short vowel (Rule 1.37). That is when we say **ka** or **ca**, short vowel, the vowel sound 'a' shall be half a mAtra. (total mAtra = one , "k" half + "a" half")

In case of Long/dheerga Consonant, the vowel sound shall be 3/4th of the total mAtra. Ie. When we utter kA or kI, the vowel sound 'A' or 'ee' shall be 1.5 mAtra

and the time for production of ‘k’ will be 0.5 mAtra. (total two mAtras, “k” 0.5 + “A” 1.5 mAtras)

1.5.3 Base Letters (Halant) (हलन्त्)

The letters of each Consonant group are formed through a base letter like क्, च्, त् and a vowel. These are pronounced as ik, ich, ith. They have a slanted stroke below. This is known as Halant (हलन्त्) in Sanskrit. Let us call them as Base/root Letters for our understanding. (Halant is term used by “PAnini” For Example in letter “ka” the “k” without “a” sound is called “hal”. The Term “Halant” was not in existence during “Taittriya PrAtiSAkhya” days.)

1.5.4 Maatra Letters:

$\text{t}, \text{f}, \text{T}, \text{f}, \text{t}, \text{d}, \text{d}, \text{v}, \text{v}, \text{z}, \text{z}, \text{h}, \text{h}$ are the shapes that give the sound of extension like aa, e, ee, Ru, ou, O, etc which are derived from the first letter first “hal” letter of each varga (in ‘ka’ hal letter is “k” without the last “a” sound , for ki “k” + “i”). When a letter has these shapes like $\text{t}, \text{f}, \text{T}, \text{f}, \text{t}, \text{d}, \text{d}, \text{v}, \text{v}, \text{z}, \text{z}, \text{h}, \text{h}$, they are called MAtra letters. This is different from the term ‘MAtra’ with respect to time scale of the letters.

Maṭra shapes in Tamil - ா, ி, ஓ, ஏ, கே, ள.

For Tamil Letters ஏ, எ, ஒ do not have mAtra shapes distinctly like in Sanskrit.

E has a separate shape. Ye has an extension below. ‘O’ has a round below the normal ‘o’.

କୁ, କୁଁ, have extensions to the shape of Ka. Similarly, the ‘u, U sounds have extensions of base letters which differ based on the letter.

Examples: ଟ ଟୁ, ତୁ ତୁ, ଜ୍ଞ ଜ୍ଞା, ପ୍ର ପ୍ର, ମୁ ମୁ.

Some shapes in Sanskrit and Tamil are not directly comparable;
So also between Sanskrit and Malayalam.

Malayalam Examples: കാ, കി, കീ, റു റു, ജു ജു, മു മു കേ, കൈ,
കോ, കൗ

1.5.5 Conjunct Consonants (Samyuktakshara) (संयुक्त अक्षर)

PA 1.1.7 Consonants not separated by a vowel are Conjunct Consonants.

Please note in the following example there is no vowel sound after the first base letter or halant.

Samyuktakshara or a conjunct character represents a syllable made up of two or more consonants from the basic set. In that Consonant (or Consonants) a basic vowel sound is present in its formation. The Vowel sound is evident in the last part of the Akshara (letter).

Examples : gna, gra, hla, hya, ଗନ, ଗ୍ର, ହଳ, ହ୍ୟ,

Tamil Equivalents: க்ஞ, க்ர, வ்றல, வ்றய

Malayalam Equivalents: ഗ്ര, റു, റൈ, റൂ,

Formation of the akshara:

ଗ୍ + ନ = ଗନ , ଗ୍ + ର = ଗ୍ର, ହ୍ + ଲ = ହଳ , ହ୍ + ଯ = ହ୍ୟ

କ୍ଞ+ନ = କ୍ଞନ , କ୍ର+ର = କ୍ରର , ଵ୍଱+ଲ = ଵ୍଱ଲ , ଵ୍଱+ଯ = ଵ୍଱ଯ

ଗ୍ + ର = ଗ୍ର , ଗ୍ + ଱ = ଱ୁ, ହ୍ + ଲ = ହୈ , ହ୍ + ଯ = ହୂ

These are examples of two consonants forming a Samyuktakshara. The ending sound is that of the vowel which forms the sound base of the second/last akshara. Here it is ‘a’

Actually, ग् + (न् + अ) = ग्न.

In Tamil , க்_3 + (ந் + அ) = க்_3ந்

In Malayalam - ഗ് + (ം + അ) = ഗം.

**That is why it is said that a vowel (Swara) is required to form any letter.
It is “Jeeva” for any akshara/letter.**

As a general rule, consonants in a conjunct are written in their half form except for the final consonant which is written in its full form. There are exceptions to this rule when the consonants do not have a clear half form. But the representation of the form will be different depending on the combination of the letter. There is no single rule as to how it is represented in books. Over a period, some letters are represented in a standard form across books. Some letter may not be. Therefore, the reader must familiarise with the convention followed in that book.

The standards of software Fonts in Sanskrit differ slightly and therefore, there are differences in representation. Sometimes for easy use or easy typing takes precedence over standard conventions. Use of modern Lipi poses its own convenience but also hinders the traditional representation.

We will see some examples of the representation of these aksharas:

1.5.6 Letters appearing one after the other

Sanskrit Consonant	How formed	Tamil Letter representation	Malayalam Letter representation
स्त	स् + त	ஸ்+த = ஸ்த	ஸ்+த=ஸ்
क्य	क् + य	க் + യ = ക്യ	ക്+യ=ക്യ
त्य	त् + य	த்+യ = த்ய	த்+ய=த்ய
ग्न	ग् + न	க்_3+ ந் = க்_3ந்	ଗଁ + ନ= ଗନ୍.
व्य	व् + य	வ் + യ = വ്യ	വଁ +യ = വ്യ
क्ष्य	क्ष् + य	க்ஷ்+ய =க்ஷய	ക්‍රි+ය = ක්‍රිය
भ्य	भ् + य	ப்_4+ യ= പ്_4യ	ଡ්+യ= දිය

1.5.7 Letters after one below the other

If the letters are represented as one below another, the components of the letters must be read from the top to bottom. The top letter will be read as Halant letter (base letter with the sound like ip, ik, ih, it, ir etc). In Tamil letters are not represented one below the other. In Malayalam it depends on the convention used in a specific book.

Sanskrit Consonant	How formed	Tamil Letter representation	Malayalam Letter representation
क्क	क्+ क	க்+க = க்க	ക்+ க்= கீ
ङ्ग	ङ् + ग	ங் +க ₃ = ங்க ₃	ங் + ட்= ங்ட்
ङ्घ	ङ् + भ	த் ₃ +ப ₄ = த் ₃ +	த் + ட்=
ङ्	ङ् + ट	ட்+ ட = ட்ட	ட் + ட்=
ङ्ध	ङ् + थ	த் ₃ +த ₄ = த் ₃ த ₄	த் + வ் =
ङ्	ङ् + व	த் ₃ +வ=த் ₃ வ	த்+ வ= தவ

Note: These can be represented side by side also as a different convention.

Example: दृथ (ddha) क्क (kka)

1.5.8 Three letter sounds with different joints

Sanskrit Consonant	How formed	Tamil Letter representation	Malayalam Letter representation
त्स्व,	त् + स्+व	த் + ஸ்+ வ	த்+ ஸ்+வ = தஸ்வ
ष्य	ष्+ ण्+य	ஷ்+ண்+ ய	ஷ்+ண்+ வ = ஷ்ண்வ

க்ய	கு + த் + ய	க் + த் + ய	கு+ த்+ ய = குதூ
க்ள	ஃ+கு + த	ங்+ க் + த	எ்+கு+ த க்ள
ஞ	த்+ர்+ ய	த் + ர் + ய	த்+ ர்+ ய= (தூ)

1.5.9 Letters with 'ra' and 'tra'

Sanskrit Consonant	How formed	Tamil Letter representation	Malayalam Letter representation
त्र	त्+र	த் + ர	த்+ர= (த)
घ	घ्+ र	க்ண+ ர	ஹ்+ர = (ஹ)
ट्	ट् + र	ட் + ர	ட்+ர (ட)
ष्ट्	ष् + ट् + र	ஷ்+ ட் + ர	ஷ்+ட்+ர ஷ்ட்
आर्य,	आ +र्+ य	ஆ + ர்+ ய	அறு+ர்+ய அறுரூ
कार्य	का+र्+ य	கா + ர்+ ய	கா+ர்*+ய காரூ Different representation.ர*

1.5.10 Special joins and representations (esp. letter ha, dda)

These are representative examples only. A student needs to learn the vast combination of Consonant letters with continuous reading.

Sanskrit Consonant	How formed	Tamil Letter representation	Malayalam Letter representation
ହ୍ଲ	ହ୍ + ଲ	ஹ + வி	வி+ல வில
ହ୍ୟ	ହ୍ + ଯ	ஹ + யி	வி+ய விய
ହ୍ର	ହ୍ + ର	ஹ + ரி	வி+ர விர
ହ୍ସ	ହ୍ + ଶ୍ର	ஹ + சி	வி+ஷ விஷ
ଦ୍ଵ	ଦ୍ + ଦ	த்த୍ ₃ + த்த୍ ₃ = த்த୍ ₃ த்த୍ ₃	ஃ+ ஃ ஃ

Note: These joint letters are always represented through two letters in Tamil. In Malayalam, the joint letters are available depending on the convention used in the book. Some books print letters separately due to modification of Lipi; the conventions are altered and Letters are printed separately. Readers must observe and familiarise with the conventions used in a specific book.

1.6 Time Scale “MAttra”

MAttra can be defined as the time taken to utter one short (hrasva) letter like a, ka, cha, ti, etc. In traditional definition of time scale, the time scale of **an Eye**

Wink is called Vitharpai(nimesha). Two time scale (vitharpai) equivalent of Eye wink is Kainodi, which is **snap of the fingers**. Two kainodi, that time equivalent of two snaps of our fingers, is a **MAtra or KAkapadam** (terminology used in Siddha Astrology books.) So, a MAtra is equal to four winks of our eyes in the normal course.

But there is another system that refers to snap of fingers (kainodi) as mAtra. We come across a term ‘mOra’, in ancient texts, which is interpreted as identical to MAtra.

In the Siksha book, Jata DarpaNam Rule 119 is interpreted by the Scholar for mAtra. It says that mAtra be recognised as the time scale in relation with snap of the finger and wink of the eyes. This reasonably settles the difference between schools.

Vedic experts say that we **should not** compare this to the Seconds in English system. MAtra is the time scale of uttering a short letter. It can be done with varied speeds as the same Keerthana is rendered at different speeds by two artists. The time scale of uttering each akshara should be even in terms of the MAtras value of the akshara/letter. Readers may note the speed and time scale of rendering varies one recites normal Suktam, Upanishads, Shanti Mantra etc. Our recital techniques use varying mAtra scale for varied type of recitals. However, very fast recital is not recommended in Veda Recital.

It is considered as one of the six banes in recital of Veda.

General rules of MAtra values:

1. All Short letters (Hrasva Letters and Short Swarayukta Akshara) have a value of **one**.
2. All long letters (Dheerga letters and long Swarayukta Akshara) have value **two**.
3. AnuswAra and Visargam of Short letters – **one and a half**
4. AnuswAra and Visargam of long letters – **two and a half**
5. Halant – **Half**
6. For Samykta Vyagyanani (Conjuncts) it will be sum total the component parts of the akshara as to how it is formed.

1.6.1 Examples of Swara and Swarayukta aksharas

Some examples of MAttra value (of the sound) for our basic understanding:

Sample letters in Sanskrit	In Tamil	In Malayalam	MAttra	
अ, इ, उ, क, ड चि, जु, छि, श	அ இ உ ங் சி ஜ் ஷி ₄ ஃ	അ, ഇ, ഉ, കി, ഓ ചി, ജു, ഷി, ശ	1	
आ, ई, ऊ, औ ^१ का, डा, ची, तै	ஆ ஏ ஊ ஒள கா ங்கா சீ தை	അതு, ഇയു, ഉറ, ഞേ കോ, ഓ, ചീ, തെ	2	
अं , अः, गः टं	அம் அः: க ₃ : டம்	അம்,அஃ:, ஙஃ ஸ	1.5	
णां, दां, नीं, रों याः, शाः षैः	ணாம் , தா ₃ ம், நீம், ரோம், யா:, ஶா:, ஷை:	எநாம், ஓம், நீம், ரேநாம் யா:, ஶா: ஷை:	2.5	

సులఫస్	ము, లు, పు, సు	ము, లు ఎం సు	0.5	
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1.6.2 Some examples of Samyukta aksharas

Sample letters in Sanskrit	In Tamil	In Malayalam	mAtra	
स्त, व्य, भ्य	ஸుత, వుయు, పు ₄ యు	స్తు, వ్యు, బ్యు	1.5	0.5 for halant and one for hrasva (short) letter
स्ता, व्यी, भ्ये,	ஸుతా, వుయీ పు ₄ యే	స్తుా, వ్యుి, బ్యుఇ,	2.5	0.5 for halant and two for the dheerga (long letters)
स्त्व, ष्य, भ्यां	ஸుతు, ఉణ్ణయ	స్తు, షుణ్ణు,	2.0	Two half mAtra each for the halants and one hrasva
न्तां	పు ₄ యాము, నుతాము,	బ్యుఱు , నుఱు	3.0	Half for the halant, Dheerga letter with Anuswara 2.5
ष्या	ఉణ్ణయా	షుణ్ణుఱు	3.0	Two halants with 0.5 each plus dheerga letter 2
ष्यां	ఉణ్ణయాము	షుణ్ణుఱుం,	3.5	Above example add 0.5 for Anuswara

ঃ	ঁট-২:	ঁঁঁঁঁঁ	2.0	0.5 for halant, short hrasva 1.0 for Ta, visarga 0.5
ঁ	ঁন্নাম্	ঁমো০	3.0	0.5 for ih, 2 for dheerga naa, 0.5 for m

Note: The mAtra count, at a higher level, while learning VarNa krama will be represented differently for some combination of letters. Our article is aimed at giving good basic idea of mAtras.

1.7 Summary of Consonant Classification:

Readers are requested to understand the classifications as Hard Consonant (HC), Soft Consonant (SC), Alpa PrANA (AP) Aspirate/ MahA PrANA(MP) Nasal varga, Semi-vowel, etc. since the many of grammar rules are based on some of these classifications. Please note the classification of Semi-Vowel and Ushman into Ka, Cha, Ta, ta, pa grouping as they combine based on their sound.

Alternate names used by Western Authors or Indian authors are given for reference

Hard Consonant - খর ব্যঞ্জনানি (khara vyanjanAni), aGoSha,

svAsa, Surd,

Soft Consonant - মৃদু ব্যঞ্জনানি (mRudu vyanjanAni), Gosha,

nAda, Sonant

MahaprAna – aspirate;

Alpa prAna – non-aspirate

	Varga or Class Consonants				Varga Nasal	Sibilants & Semi-vowels	
Groups with Names	HC AP	HC MP	SC AP	SC MP	Nasal Letters	HC	SC
Gutturals (कण्ठा) Ka Varga	ka क kha ख କ କ୍ଷ	ga ग gha घ* ଗ ଗ୍ରା	~nga ङ ଙ୍ଗ	ha ह ହୁ ହୁ			
Palatals: (तालु) Cha varga	ca च cha छ ଚ ଚ୍ଛ	ja ज jha झ * ଜ ଝ୍ର	gya झ ଝ୍ରେ ତମ	Sa श ଶ୍ରେ ଶ୍ରେ	ya य ଯୁ ଯୁ		
Cerebral s: (मूर्धन्) Ta Varga	Ta ट Tha ठ ଟ ଟ୍ର	Da ड Da ड * ଡ ଡ୍ରୋ	Dha ढ ଢ୍ରୋ	Na ण ଣ୍ଣୋ	sha ष ଷ୍ଟୋ ଷ୍ଟୋ	ra र ର୍ରୋ ର୍ରୋ	
Dentals (दन्त) 'ta' varga	ta त tha थ ତ ତ୍ର	da द ଦ୍ର	dha ध ଧ୍ରୋ	na न ନ୍ନୋ	sa स ଶ୍ରେ ଶ୍ରେ	la ल ଲ୍ଲୋ ଲ୍ଲୋ	
Labials (ओष्ठौ) Pa varga	pa प pha फ ପ ପ୍ର	ba ब bha भ ବ ବ୍ର	ma म ମ୍ବ			va व ବ୍ରୋ ବ୍ରୋ	

Semi-Vowels (अन्तस्था) (all SC)	ya य य (AP)	ra र र (AP)	la ल ल (AP)	va व व (AP)	ha ह ह (MP)		
Sibilants (ऊष्मन्) Sha varga (all MP) (all HC)	sa स *॥ ॥	Sa श *॥ ॥	sha ष *॥ ॥				

We have tried to explain this letter article by comparing TaittIrlya PrAtiSAkhy, Panini Siksha (limited), Panini AshtAdhyAyl etc. Here we have deliberately avoided some selective sutras/rules as given in Sanskrit texts in order, not to make this article too technical.

1.8 Notes on Plutam:

As defined in the first section on Swaras, Plutam is the vowel sound that extends to **three or more mAtra time scale** for the **vowel sound 'A' 'I' and 'U'**.

Some examples that we come across are given below:

(if the reader is new to Veda learning, Plutam concept comes when one takes up Upanishad rendering or later while learning in Uduka Shanti.

But the reader may be using the Plutam at the start for OM for vedic recital)

Bruguvalli – Section 3.3	हा(3) कु हा(3) कु हा(3) कु 10.5	Here hA consists of h+A it is the A vowel sound that should be extended for 3 maatras.
	ॐ(3) ए ॐ(3) ए ॐ(3) ए 10.5	
	म॒(3) ए॑ म॒(3) ए॑ म॒(3) ए॑ 10.5	

<p>BRuguvalli – Section 3.3</p> <p>अह-मन्त्र-मन्त्र-मदन्त-मा(3) द्वि ।</p>	<p>Similar to above example</p>
<p>அஹ-மன்ன-மன்ன-மத₃ன்த-மா(3) த்₃மி ।</p> <p>அஹ-மன-மன-மதன-மா(3) த்₃மி</p>	
<p>Udaka Shanti – Section 1.34</p> <p>nAsadAslya Suktam</p> <p>अधस्विदासी(3) दुपरिस्विदासी(3)त् ।</p>	<p>Here sl consists of s+I. It is the vowel sound 'ई' (ee) that should be extended to three mAtrAs.</p>
<p>அத₄ஸ்விதா₃ஸீ(3) துபரிஸ்வி஦ாஸீ(3)த் ।</p> <p>அயஸ்விதாஸீ(3) துபரிஸ்விதாஸீ(3)த்</p>	
<p>T.S. 1.8.16.2</p> <p>राजाऽभूथ् सुश्लोकाँ(4) सुमङ्गलाँ(4)</p>	<p>Here for kAm and lAm, the A of kAm and lAm is extended to 4 maatras as indicated. But A of jAn only to 3 as indicated.</p>
<p>सत्यराजा(3)न् ।</p> <p>राज्ञाऽप्तु₄त्₂ शाश्वलेकाँ(4)</p>	<p>Here AnuswAra is followed by s but it is recited with nasal tone.</p>
<p>शामंकलाँ(4) शत्यराज्ञा(3)न् ।</p> <p>राज्ञाऽप्तु₄म् सुश्लोकाँ(4)</p>	<p>Kindly listen to some Veda recitals in Internet for good understanding.</p>
<p>सुमङ्गलाँ(4) सत्यराज्ञा(3)न् ।</p>	

TS 7.4.20.1

लाजी(3)ञ्छाची(3)न् यशा॑ ममा॒(4) ।
 लाञ्जी(3)ञ्चा॒ञ्च(3)न्य॑ यशो॒ ममा॒(4)म् ।
 लाजी(3)ञ्चाची(3)न्य॑ यशो॒ ममा॒(4)० ।

Here 'I'('ee') sound of both jl and cl are extended for 3 maatras but 'A' of mA for four maatras.

It is customary to slow down during the recital of Plutam and a student must learn it properly from one's Guru only.

1.8.1 Examples of Non- Plutam words

There are many instances that a number (2) is indicated in the Vedic texts. This is not Plutam; the indicator (2) means that the Vowel sound is extended to 2 mAtras in addition to the Halant letter uttered first. These shall not be mistaken as Plutam by Veda learners. When Plutam is recited,

Bruguvalli – Section 3.3

अहमन्नादो॒(2)ऽहमन्नादो॒(2)ऽहमन्नादः॑ ।
अहमन्नादो॒(2)
अहमन्नादो॒(2)
अहमन्नादो॒(2)

Here dO has d – half maatra and O remaining one and a half maatra. It is the O sound that is extended to 2 as per vedic recital rule for the beauty of the sound effect.

TA 1.12.2 AruNa PraSnam निधन्वेव ताँ(2) इमि ॥ --- - नृत्य_4 न्वेवे ता(2)म् इमि ॥ --- - नीयन्वेवे तां(2) इमि ॥ --- -	This is similar to the example given above.
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1.8.2 Further reference/Notes for/on Plutam

- PA covers the basic grammatical and contextual usage of Plutam in Book 8 Chapter 2 Rules 84-108
- One key Rule 87 says that the vowel in OM at the beginning of a sacred text is Pluta. In practice, there are schools which recite at mAtra 3 and some schools recite at mAtra 4.
- Rule 86 says “In the room for prosodically long vowel at the end, a Pluta is substituted subject to conditions said in earlier Rules, by Eastern Grammarians.
- This brings in a practice by traditional Vedic Schools that convert long vowels sounds to Plutam at the end of the Statement.
But this may not be consistently followed across Schools.
This needs further views from Vedic Experts.
- Vishnu Sahasranamam is said to rendered in the style of Classical Vedic method though there are no Swarams. For example, the ending in a statement like dIptamUrthiramurthimA(3)n (Sloka 78/106 depending on numbering Scheme) reiterates the importance of Plutam in Classical rendering method.

Please give your comments, feedbacks and suggestions to the e-mail id - vedavms@gmail.com.