Sanskrit Computational Linguistics Platform

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Goal: To provide a platform for understanding Sanskrit texts

following the Indian Grammatical Tradition of

व्याकरण, न्याय, and **मीमांसा शाब्दबोधः**

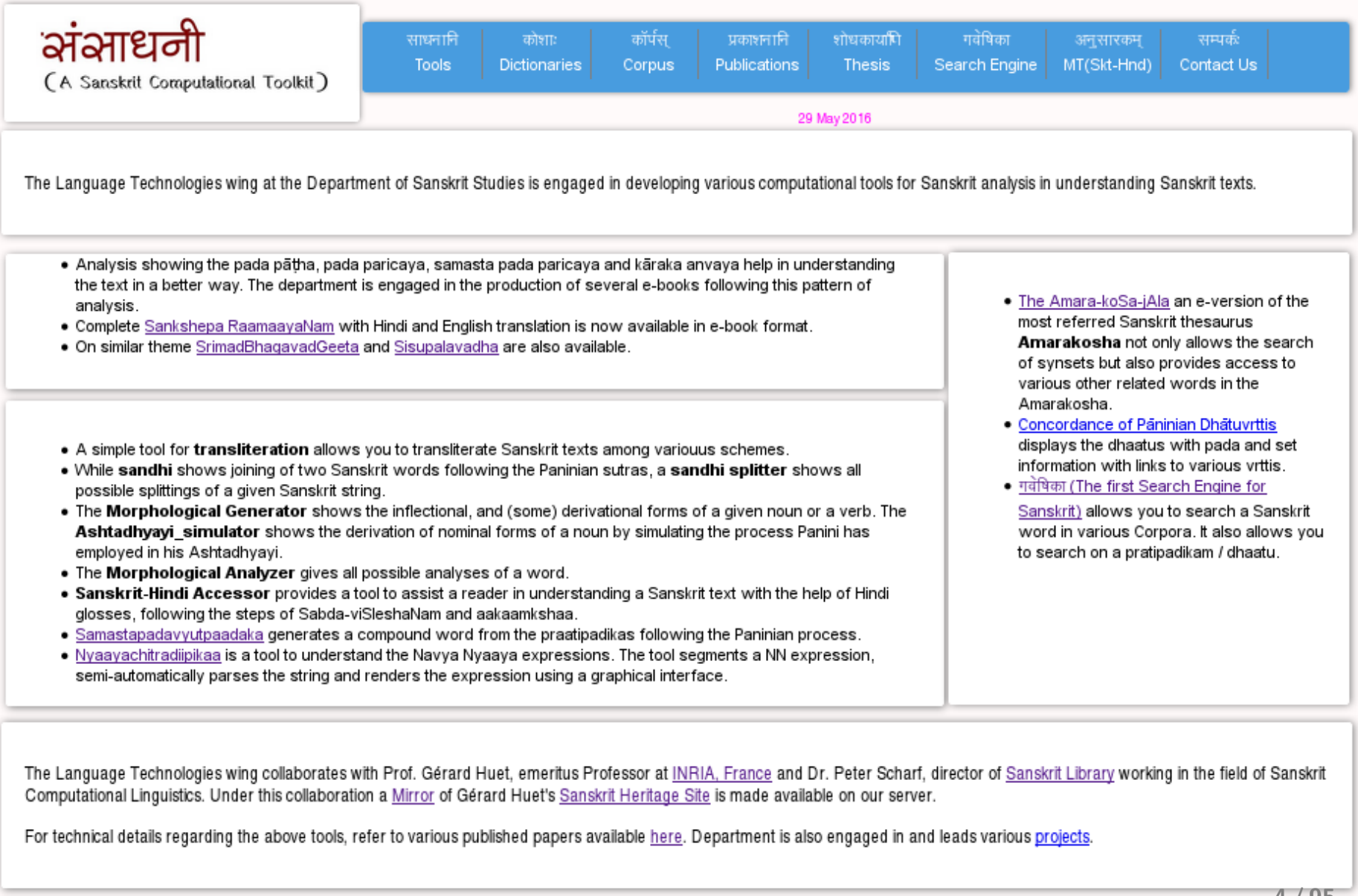
General Overview

Website URL: http://sanskrit.uohyd.ac.in/scl

Alternate URLs
Mirror Site: http://scl.samsaadhanii.in , and

TDIL URL: http://tdil-dc.in/san/ (2013 version)

Main Page



संसाधनी
(A Sanskrit Computational Toolkit)

साधनानि Tools | कोशाः Dictionaries | कॉर्पस् Corpus | प्रकाशनानि Publications | शोधकार्याणि Thesis | गवेषिका Search Engine | अनुसारकम् MT(Skt-Hnd) | सम्पर्कः Contact Us

29 May 2016

The Language Technologies wing at the Department of Sanskrit Studies is engaged in developing various computational tools for Sanskrit analysis in understanding Sanskrit texts.

- Analysis showing the pada pāṭha, pada paricaya, samasta pada paricaya and kāraka anvaya help in understanding the text in a better way. The department is engaged in the production of several e-books following this pattern of analysis.
- Complete Sankshepa RaamaayaNam with Hindi and English translation is now available in e-book format.
- On similar theme SrimadBhagavadGeeta and Sisupalavadha are also available.

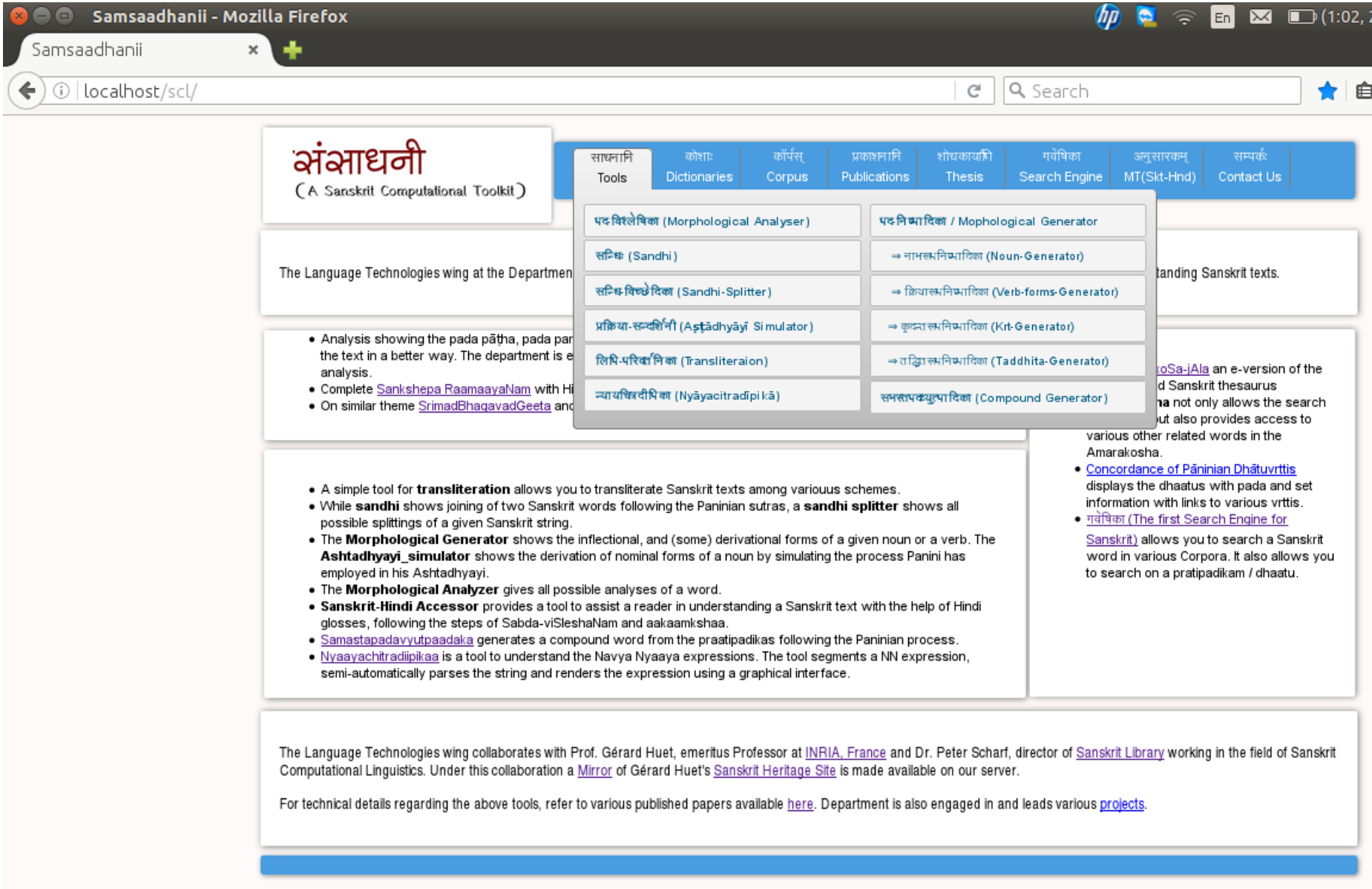
- A simple tool for **transliteration** allows you to transliterate Sanskrit texts among variouus schemes.
- While **sandhi** shows joining of two Sanskrit words following the Paninian sutras, a **sandhi splitter** shows all possible splittings of a given Sanskrit string.
- The **Morphological Generator** shows the inflectional, and (some) derivational forms of a given noun or a verb. The **Ashtadhyayi_simulator** shows the derivation of nominal forms of a noun by simulating the process Panini has employed in his Ashtadhyayi.
- The **Morphological Analyzer** gives all possible analyses of a word.
- **Sanskrit-Hindi Accessor** provides a tool to assist a reader in understanding a Sanskrit text with the help of Hindi glosses, following the steps of Sabda-viSleshaNam and aakaamkshaa.
- Samastapadavyutpaadaka generates a compound word from the praatipadikas following the Paninian process.
- Nyaayachitradiipikaa is a tool to understand the Navya Nyaaya expressions. The tool segments a NN expression, semi-automatically parses the string and renders the expression using a graphical interface.

- The Amara-koSa-jAla an e-version of the most referred Sanskrit thesaurus **Amarakosha** not only allows the search of synsets but also provides access to various other related words in the Amarakosha.
- Concordance of Pāninian Dhātuvṛttis displays the dhaatus with pada and set information with links to various vrttis.
- गवेषिका (The first Search Engine for Sanskrit) allows you to search a Sanskrit word in various Corpora. It also allows you to search on a pratipadikam / dhaatu.

The Language Technologies wing collaborates with Prof. Gérard Huet, emeritus Professor at INRIA, France and Dr. Peter Scharf, director of Sanskrit Library working in the field of Sanskrit Computational Linguistics. Under this collaboration a Mirror of Gérard Huet's Sanskrit Heritage Site is made available on our server.

For technical details regarding the above tools, refer to various published papers available here. Department is also engaged in and leads various projects.

Main page with Tools Menu



On this platform following tools are available:

- Word Generators
- Word Analysers
- Sandhi joiner and splitter
- Sentence level Analyser (kāraka viśleṣaka)
- Sanskrit-Hindi Anusārakam anuvādakam ca(An accessor cum translator)
- Sample Readers for Rāmāyaṇam, Bhagvadgītā and Śiśupālavadha
- Amarakosha with Vaiśeśika Ontology
- E-concordance of Dhātupāṭha
- Nyāyacitradīpikā

Word Analysis and Generation

- Aṣṭādhyāyī Simulator
- Word Generators
  - Noun form generator
  - Kridanta form generator
  - Tiṅanta form generator
  - Taddhita form generator
  - Samasta pada vyutpādaka
- Word Analyser

Word Generators

The word generators are of two types

- Inflectional Morphology
  Generating 'pada's from prātipadikas and dhātus
- Derivational Morphology
  Generating new prātipadikas and dhātus

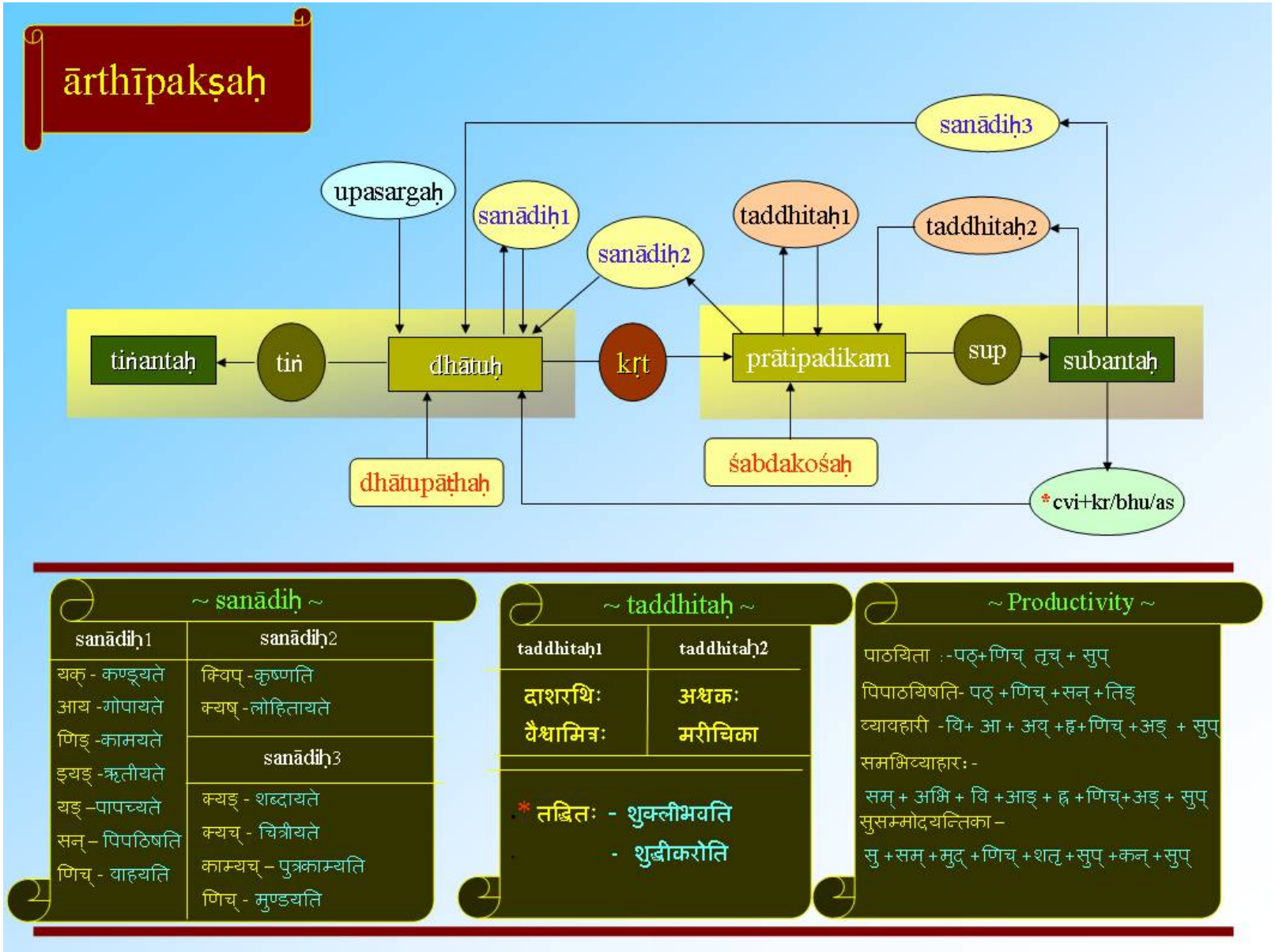


Figure : Recursion in the Sanskrit Word generation process

So far we have implemented only the following

- subanta generation
- tiṅganta generation
- kṛdanta generation (only frequent pratyayas)
  kṛdanta $\rightarrow$ subanta forms
- taddhitānta generation (only a few pratyayas)
  taddhitānta $\rightarrow$ subanta forms
- sanādi pratyayas
  Only ṇic
- Frequent combinations of upasraga-dhātu

Inflectional Morphology

- Subanta generation
- Tiṅanta generation

Inflectional Morphology ..

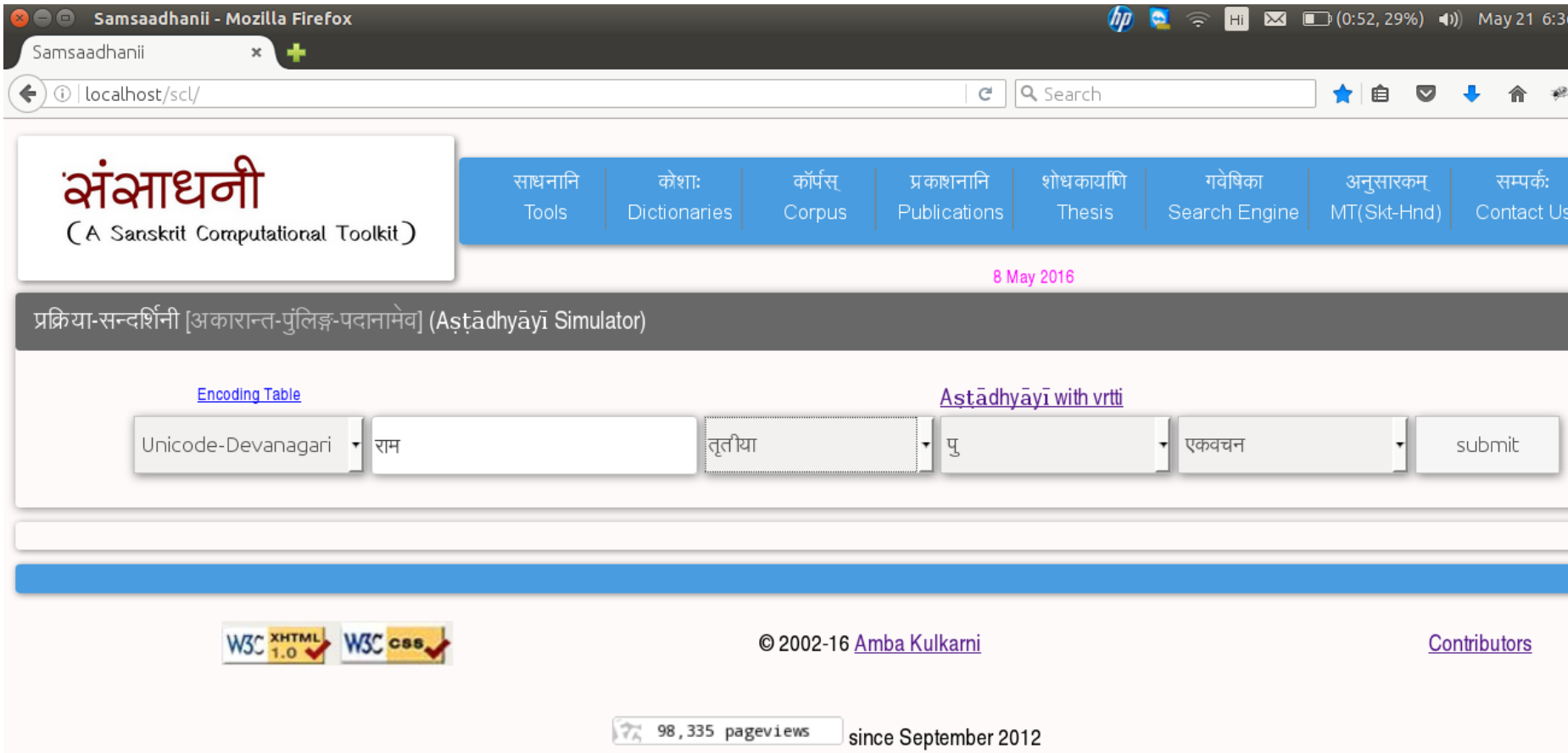
Subanta generation is implemented in two ways

- Following Aṣṭādhyāyī
- Following the Paradigm approach

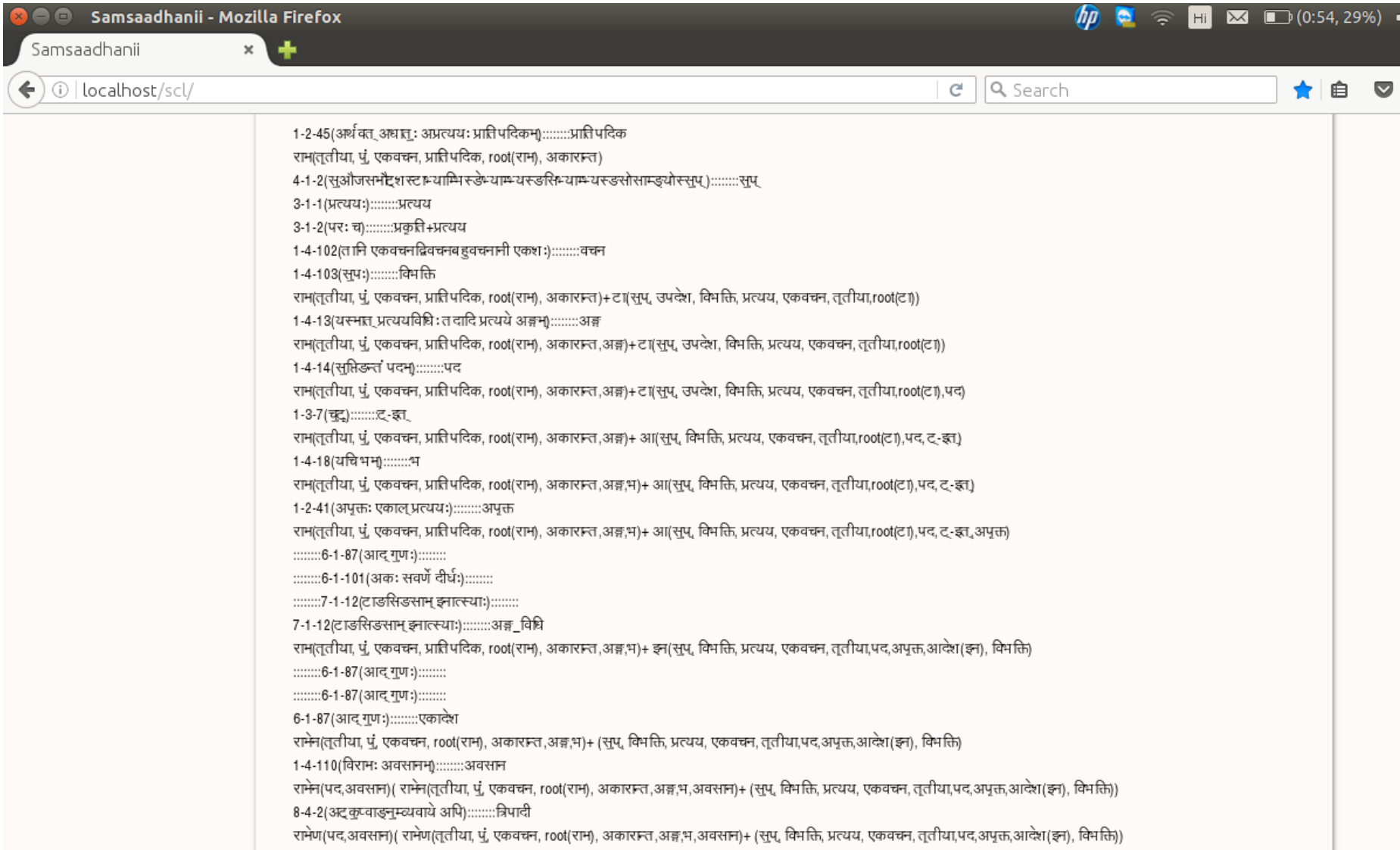
Aṣṭādhyāyī Simulator

It shows the complete derivation process of akārānta puṁlliṅga subantas following Aṣṭādhyāyī

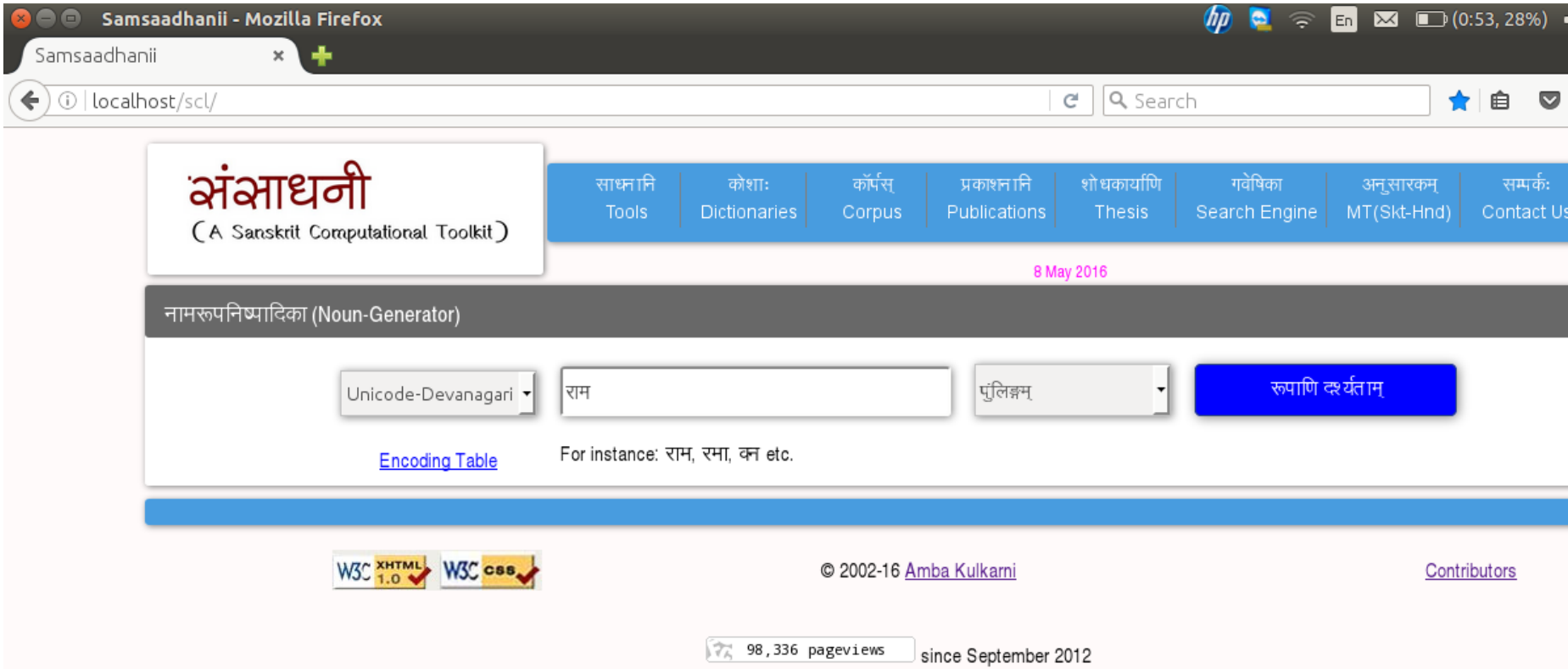
Input: राम, एकवचन, तृतीया, पुंल्लिङ्ग



Derivation process of rāmeṇa



Input: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8 May 2016
नामरूपनिष्पादिका (Noun-Generator)
Unicode-Devanagari
राम
पुंलिङ्गम्
रूपाणि दर्शयताम्
Encoding Table
For instance: राम, रमा, वन etc.
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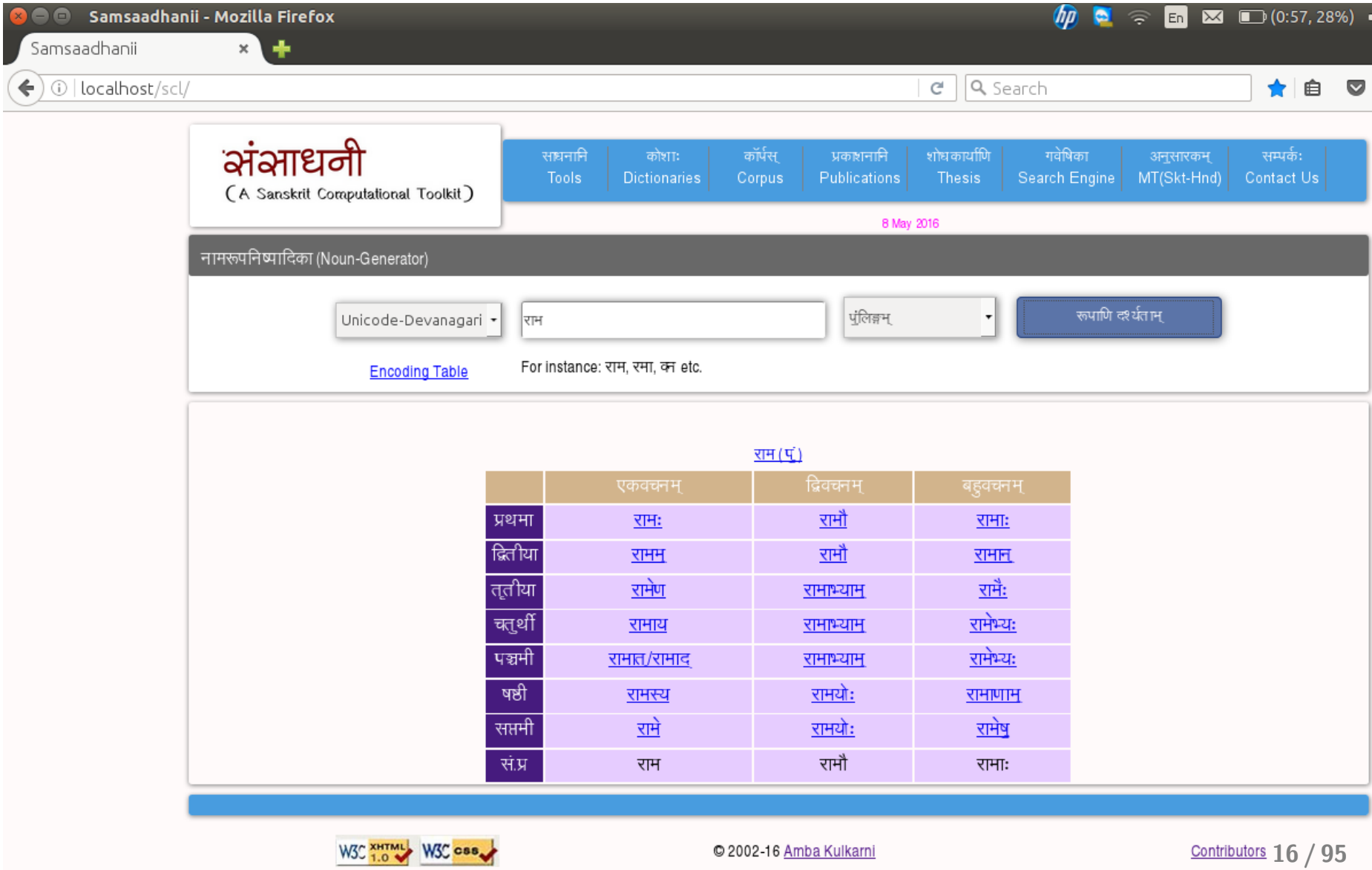
Contributors
98,336 pageviews since September 2012

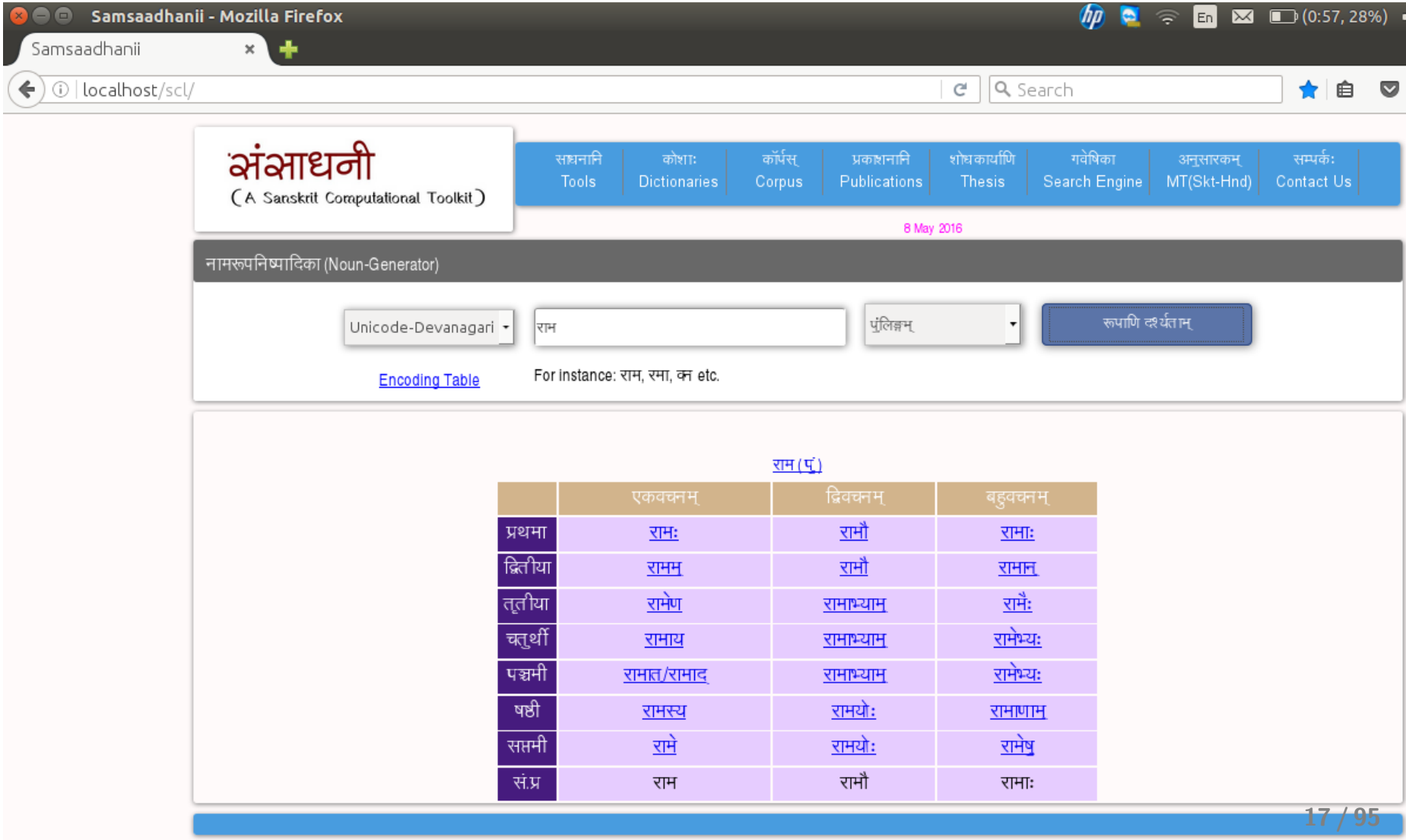
nāmarūpavyutpādikā ...

Output:

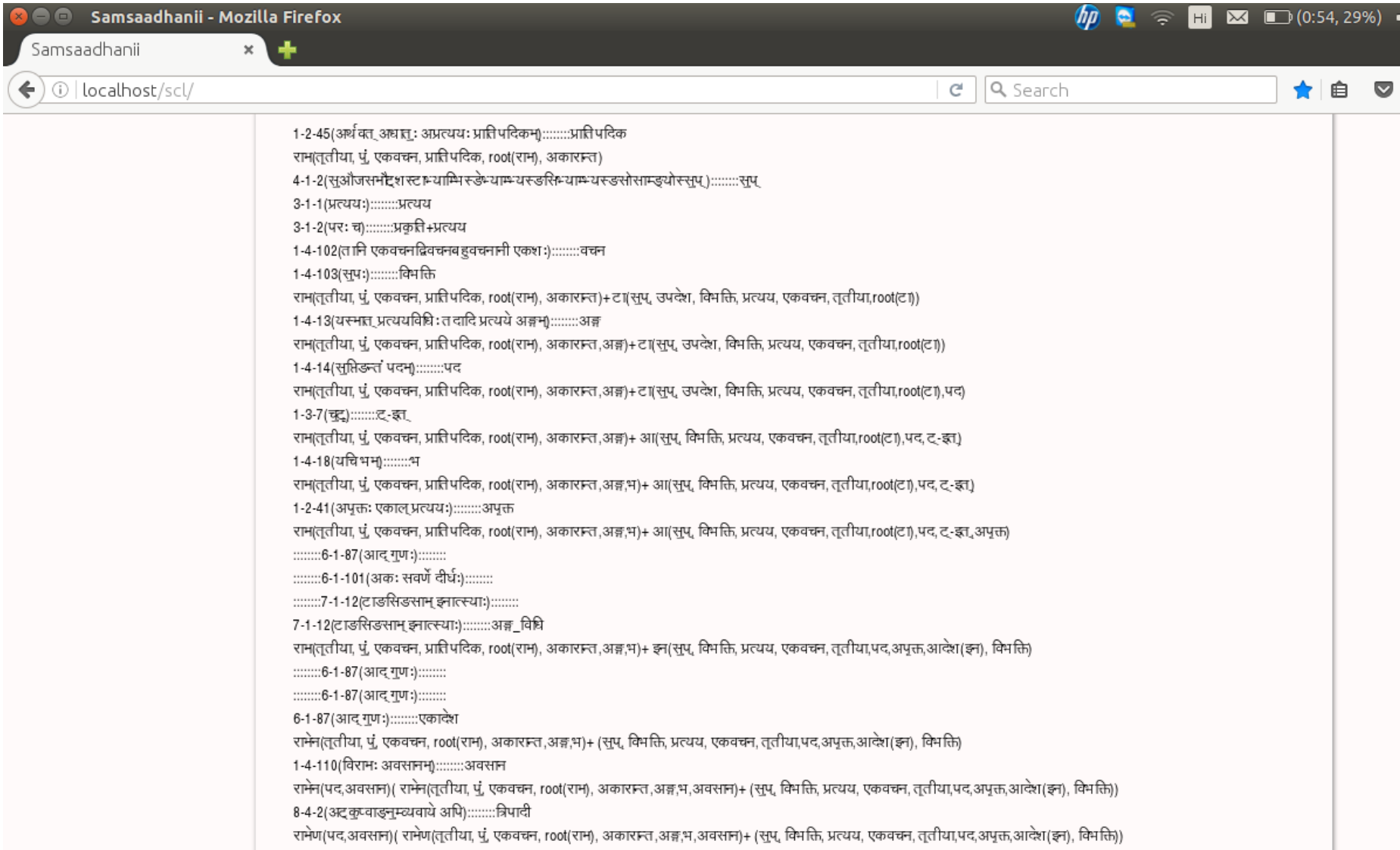


Link to Aṣṭādhyāyī Simulator ...

Derivation of subantas available as a link;
Click on the form, say, रामेण to see its derivation

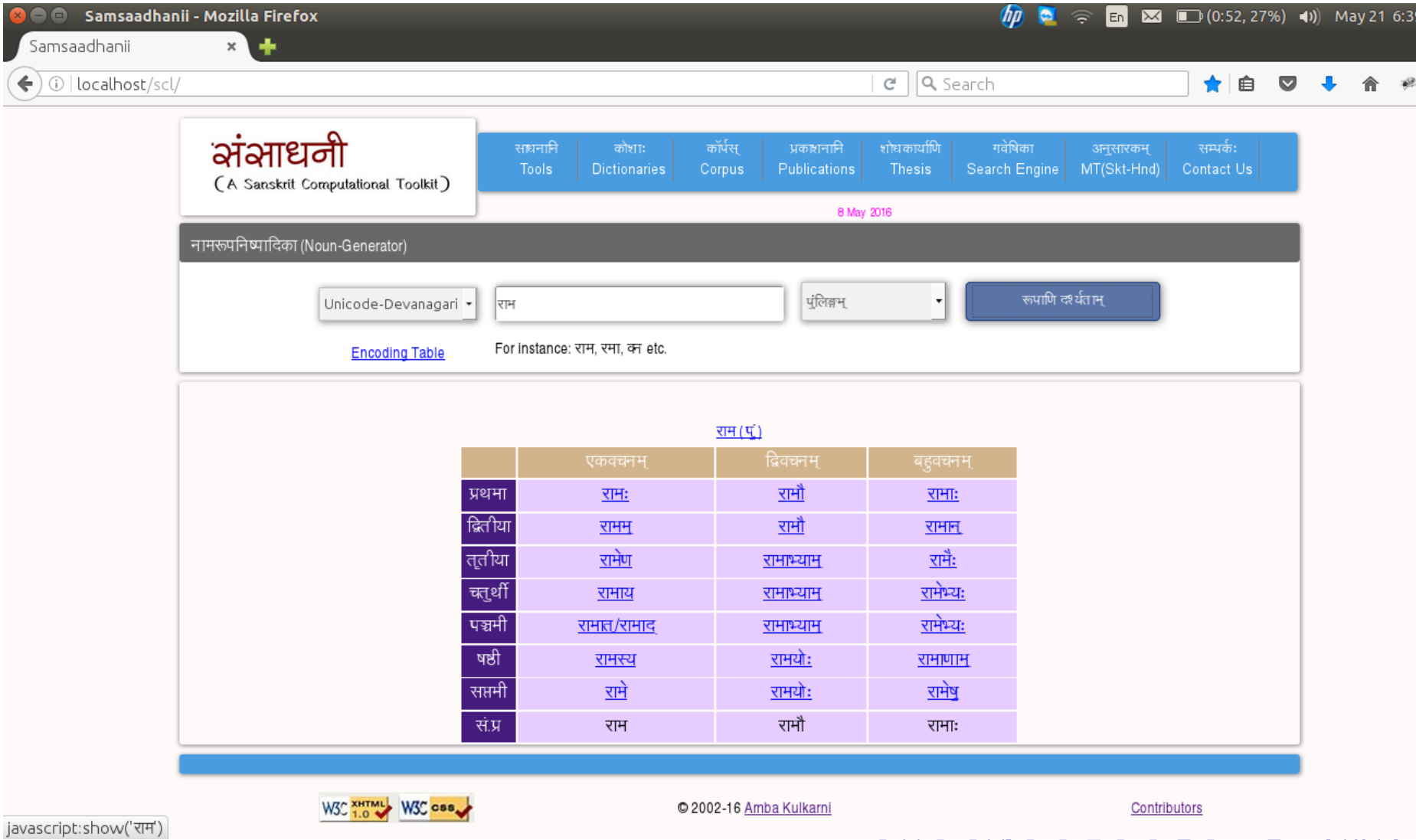


Derivation of rāmeṇa



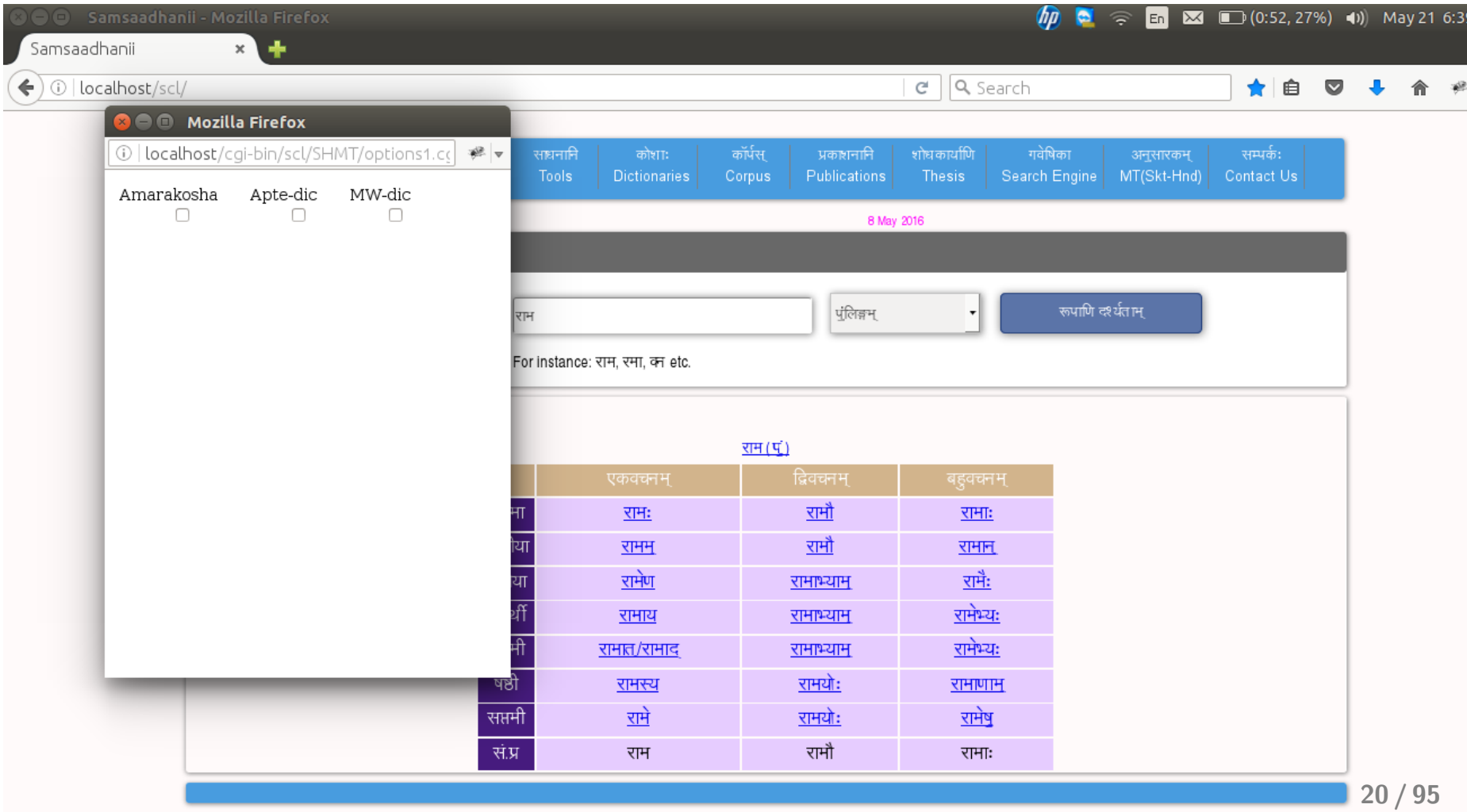
Links to various kośas

Clicking on the Table heading entry **राम पुं** will pop-up a window.



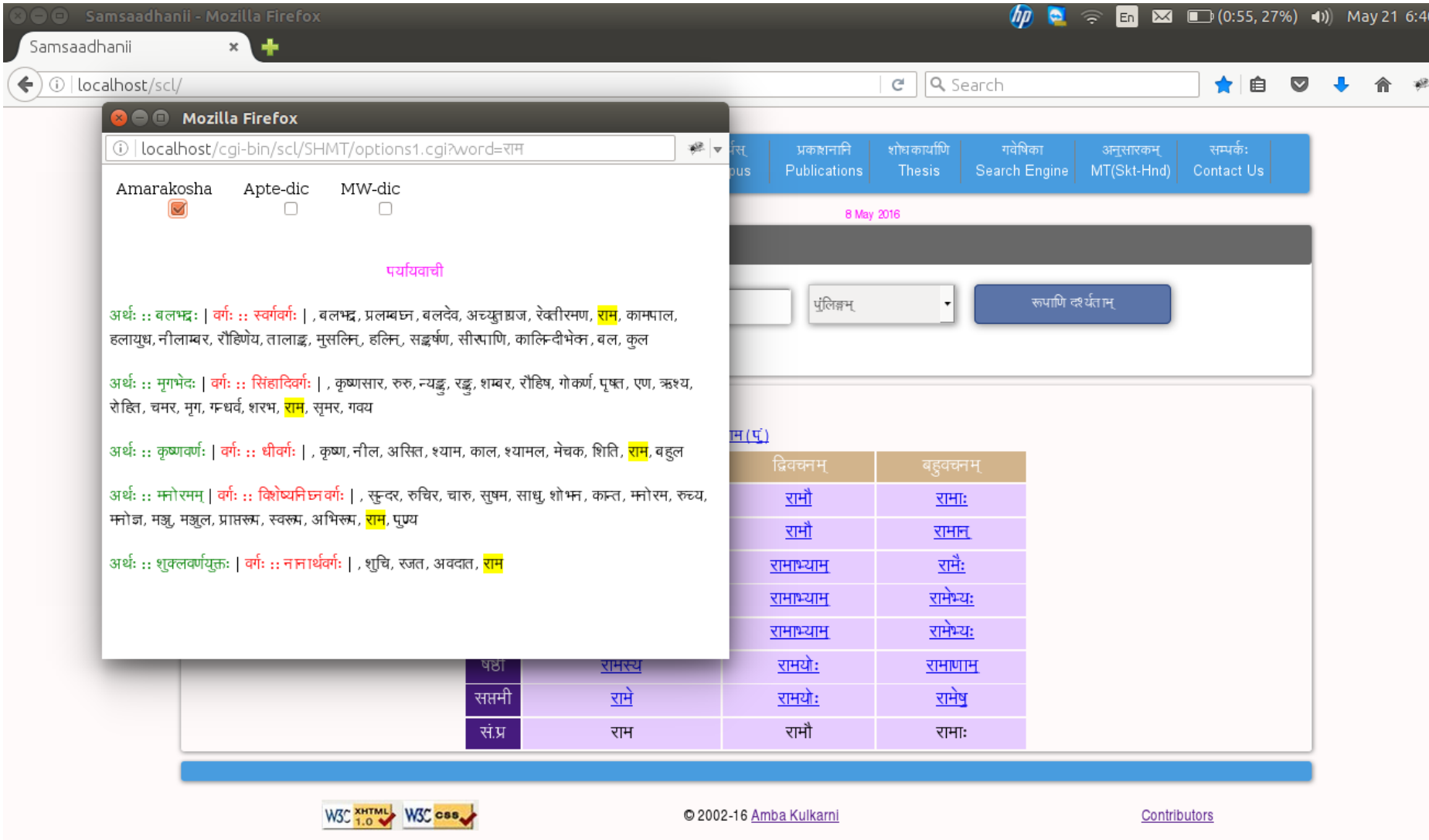
Links to various kośas

Links to three kośas are available.
Amarakośa, Apte's Skt-Hnd dictionary and Monier William's Sanskrit-English dictionary



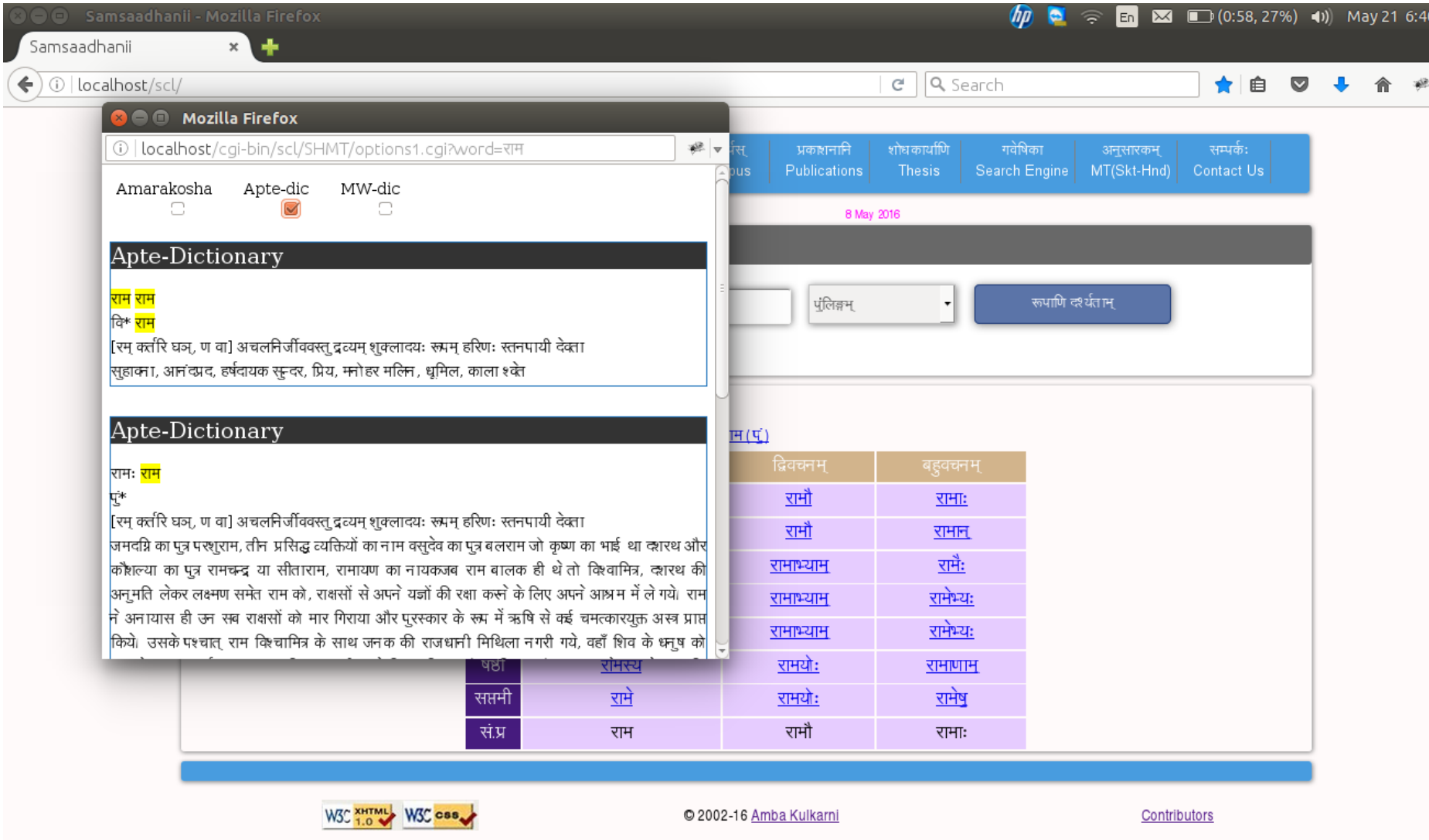
Link to Amarakośa

Amarakośa provides the paryāya padas for all meanings.



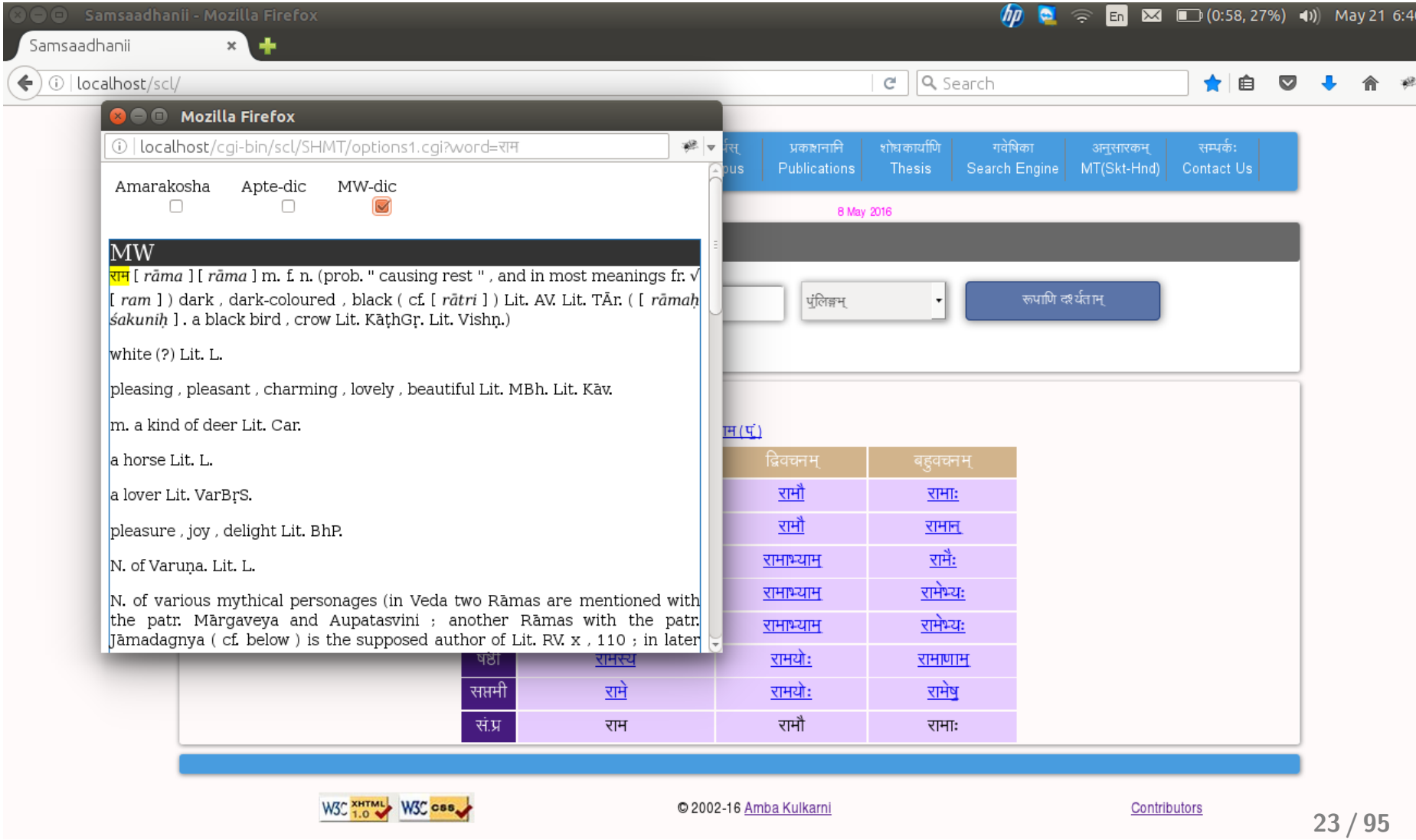
Link to Apte's Sanskrit-Hindi kośa

Dictionary entry for **राम** from Apteś Sanskrit-Hindi dictionary



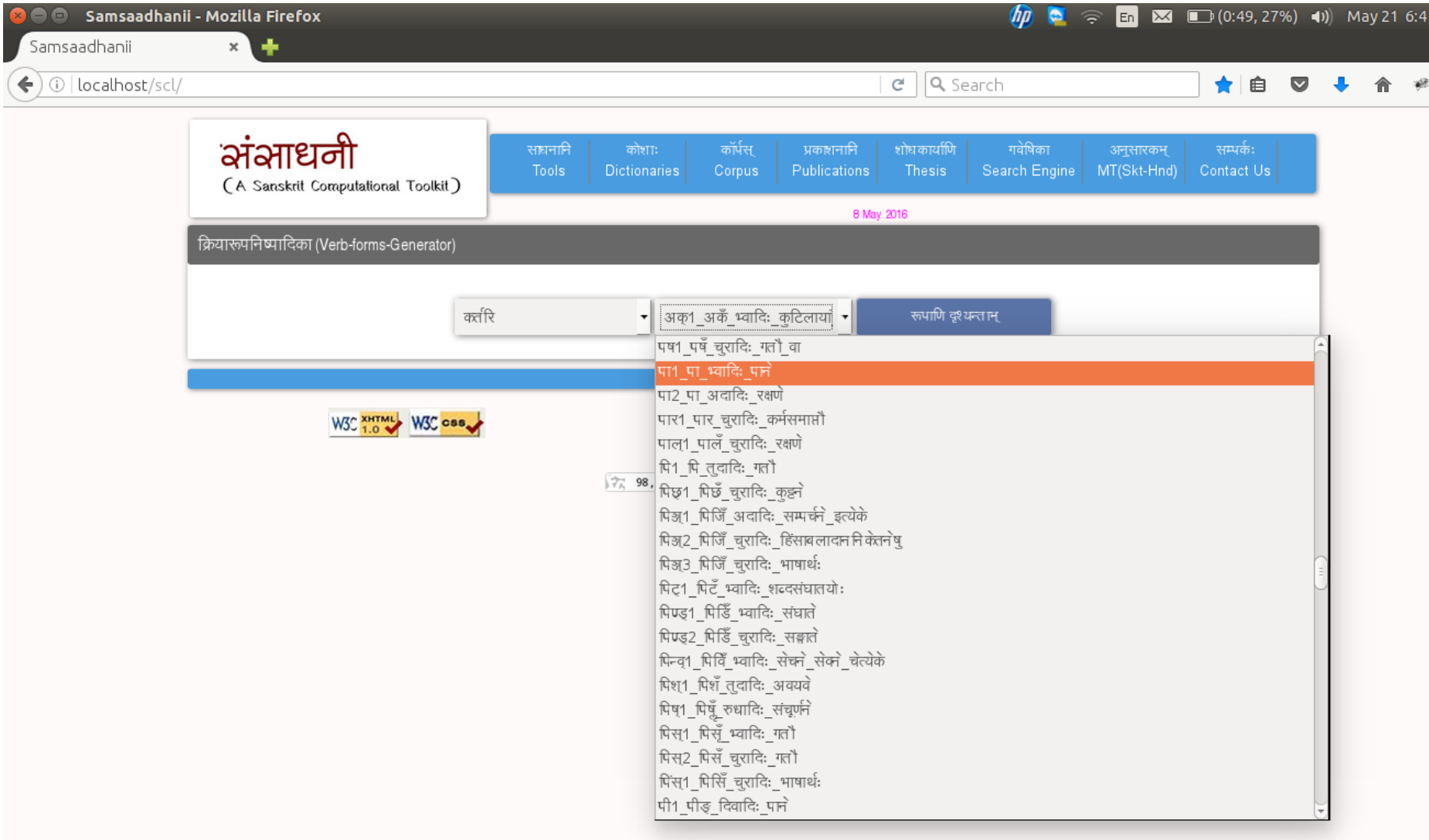
Link to Monier William's Skt-Eng kośa

Dictionary entry for **राम** from Monier william's Sanskrit-English dictionary



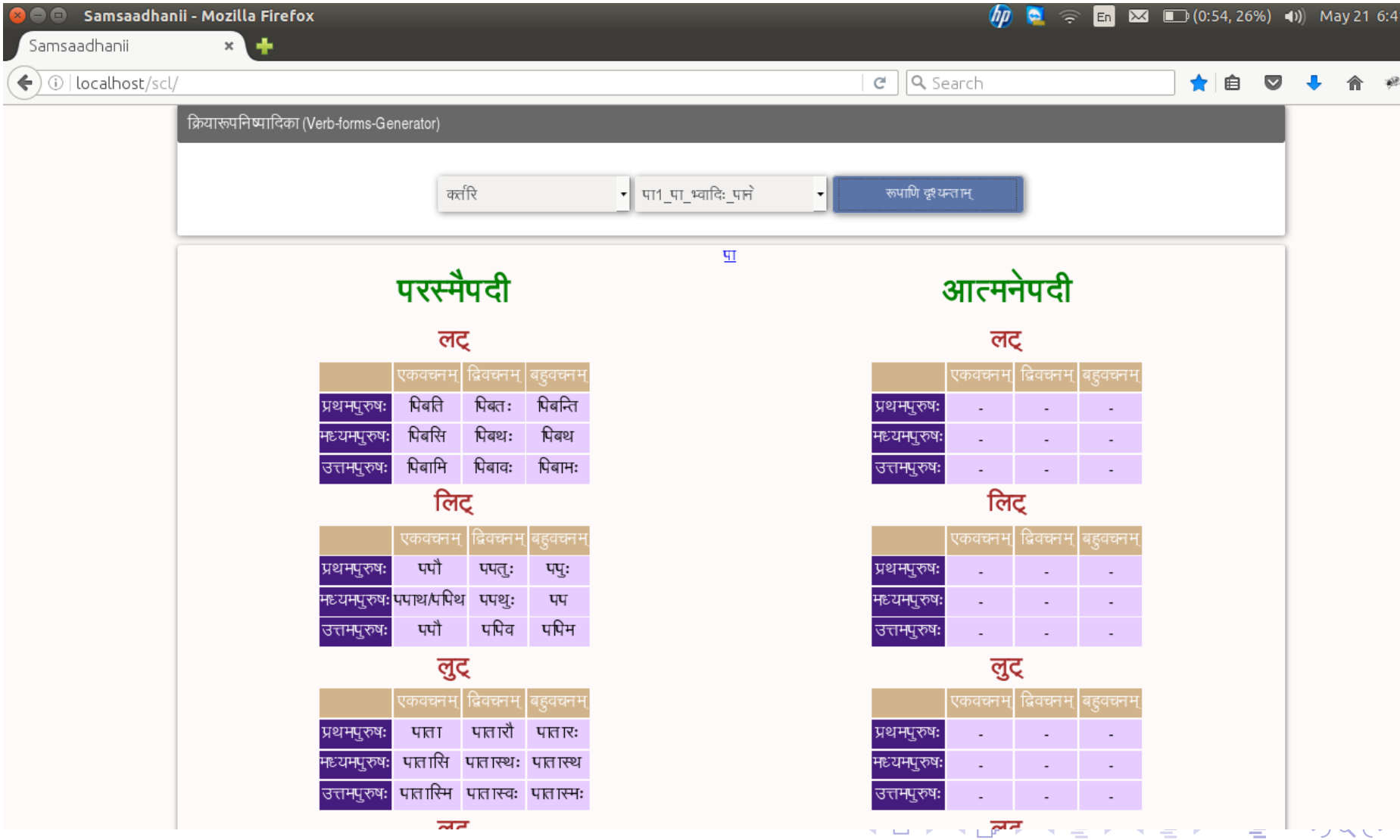
Dhāturūpavyutpādikā

Input: Select a dhātu from the drop down menu.



Dhāturūpavyutpādikā ...

Output: Forms of the verb in all the 10 lakāras.

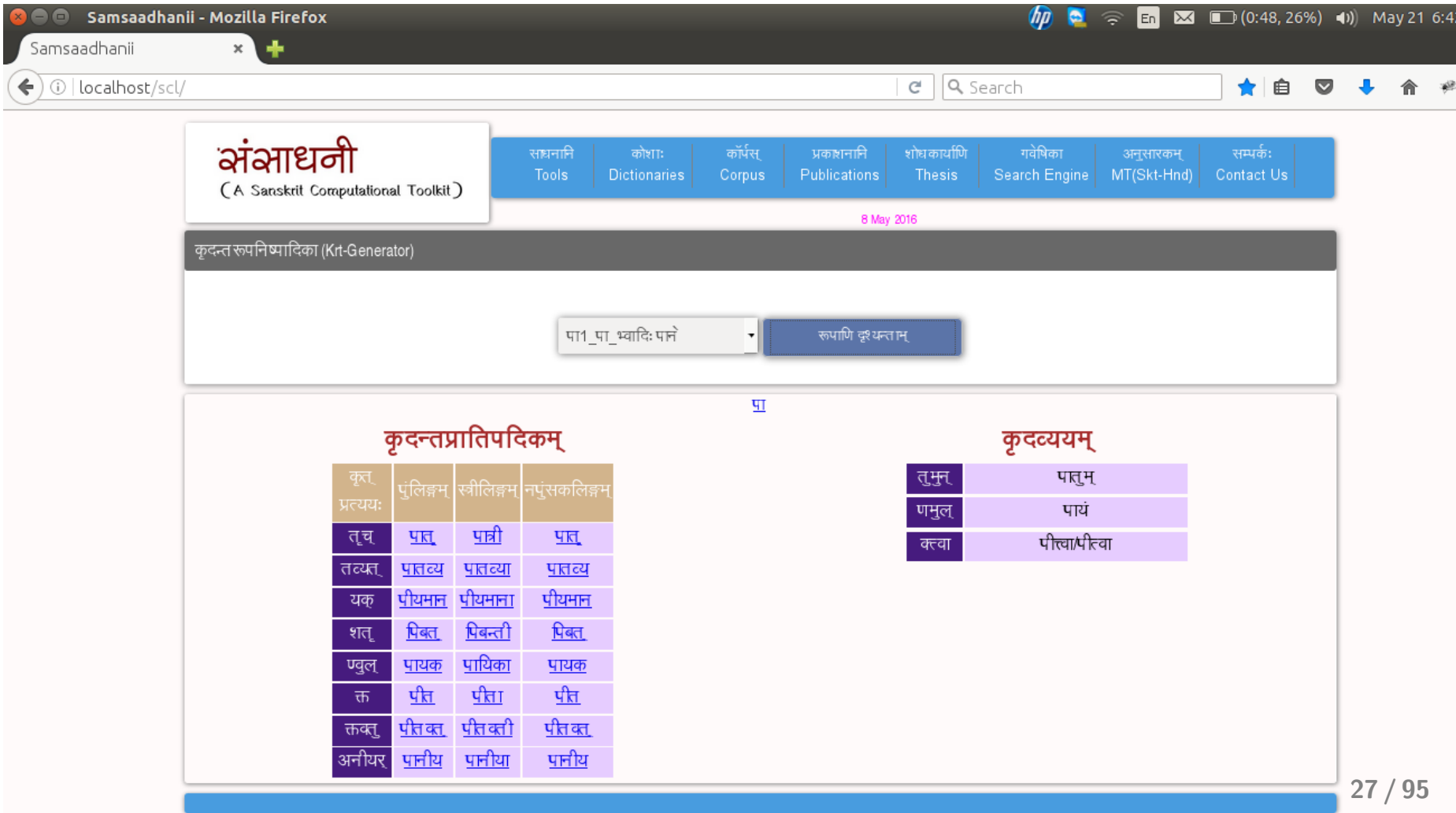


Kṛdantarūpavyutpādikā ...

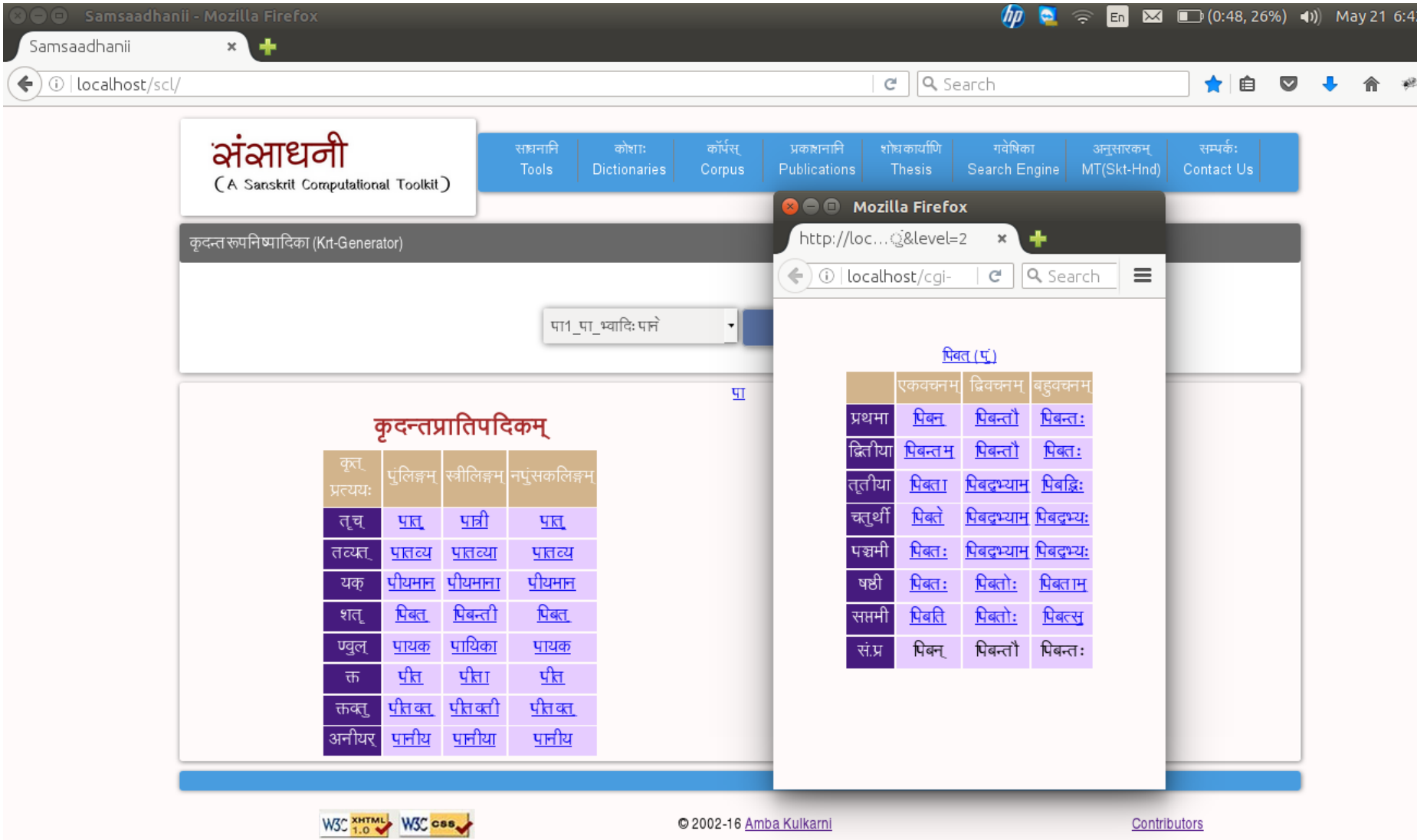
Output: High frequent Kṛdanta forms

Link to nāmarūpavyutpādikā

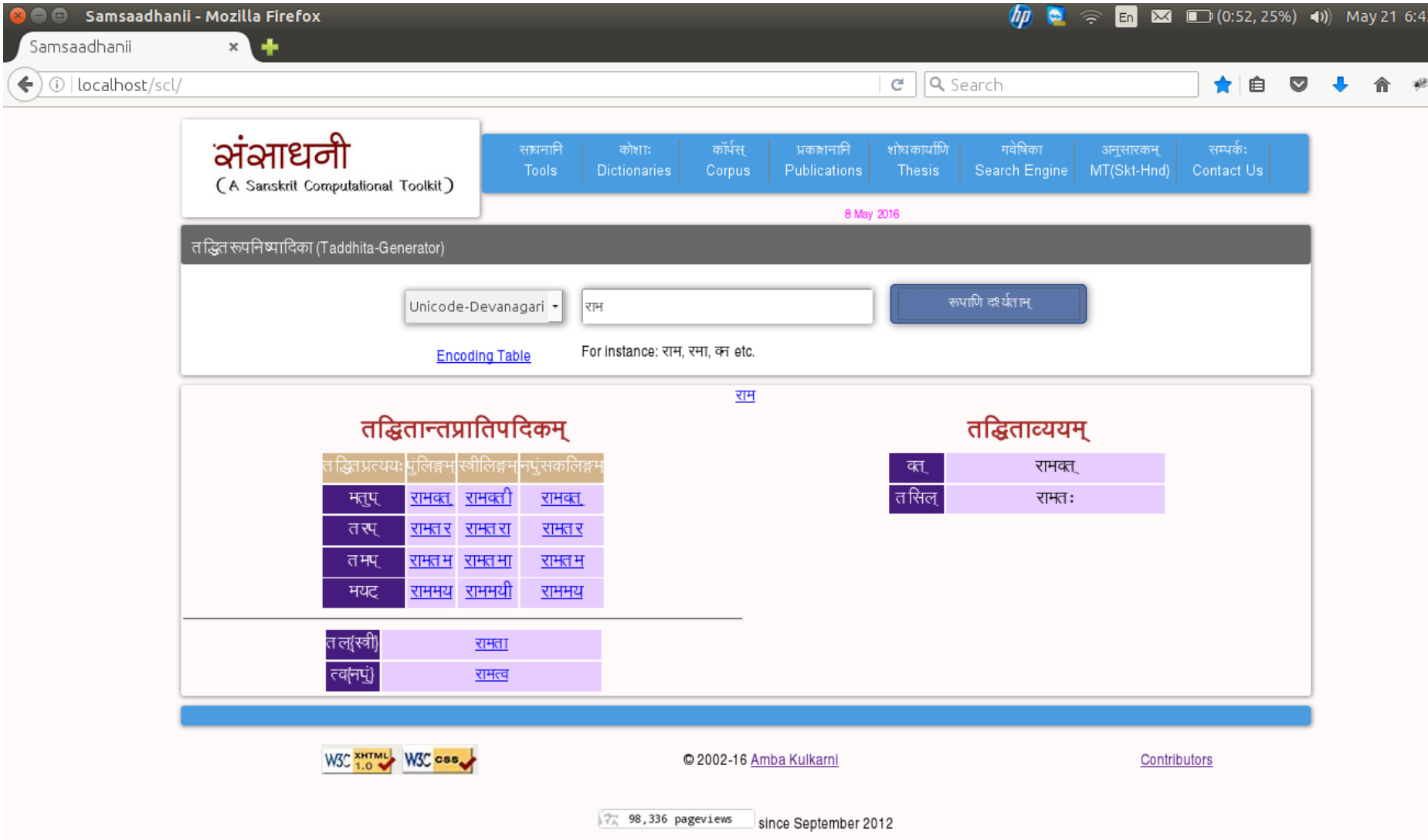
These forms are also linked to the nāmarūpavyutpādikā. Click on any form to get all nominal forms of the chosen kṛdanta prātipadika.

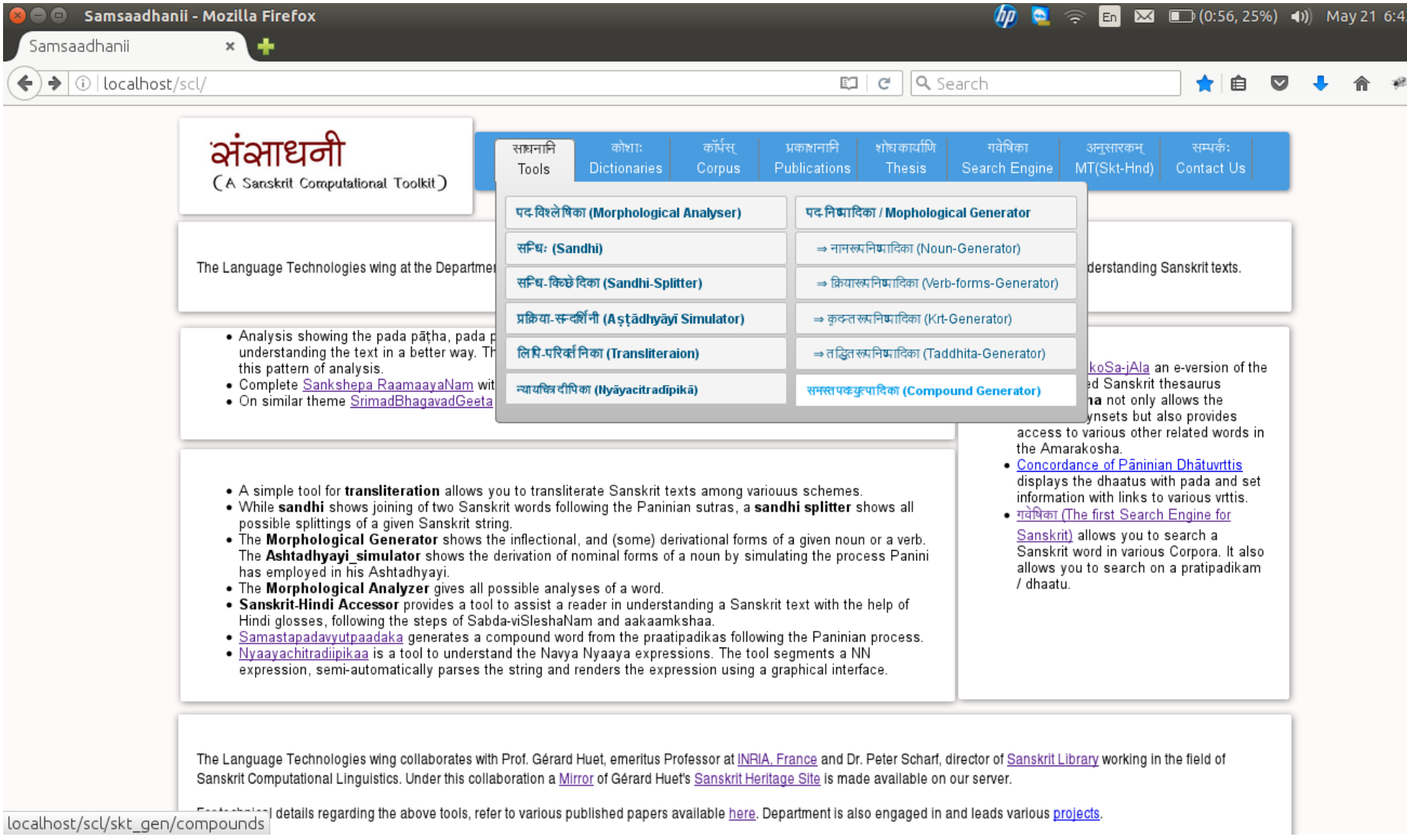


Link to nāmarūpavyutpādikā



Output: High frequent Taddhita forms

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सन्धिः (Sandhi)
सन्धि-किच्छेदिका (Sandhi-Splitter)
प्रक्रिया-सन्दर्शिनी (Aṣṭādhyāyī Simulator)
लिपि-परिवर्तिका (Transliteraion)
न्यायचित्र दीपिका (Nyāyacitradīpikā)
पद-निष्पादिका / Mophological Generator
⇒ नामरूपनिष्पादिका (Noun-Generator)
⇒ क्रियारूपनिष्पादिका (Verb-forms-Generator)
⇒ कृदन्तरूपनिष्पादिका (Krt-Generator)
⇒ तद्धितरूपनिष्पादिका (Taddhita-Generator)
समस्तपदयुत्पादिका (Compound Generator)
The Language Technologies wing at the Departmer
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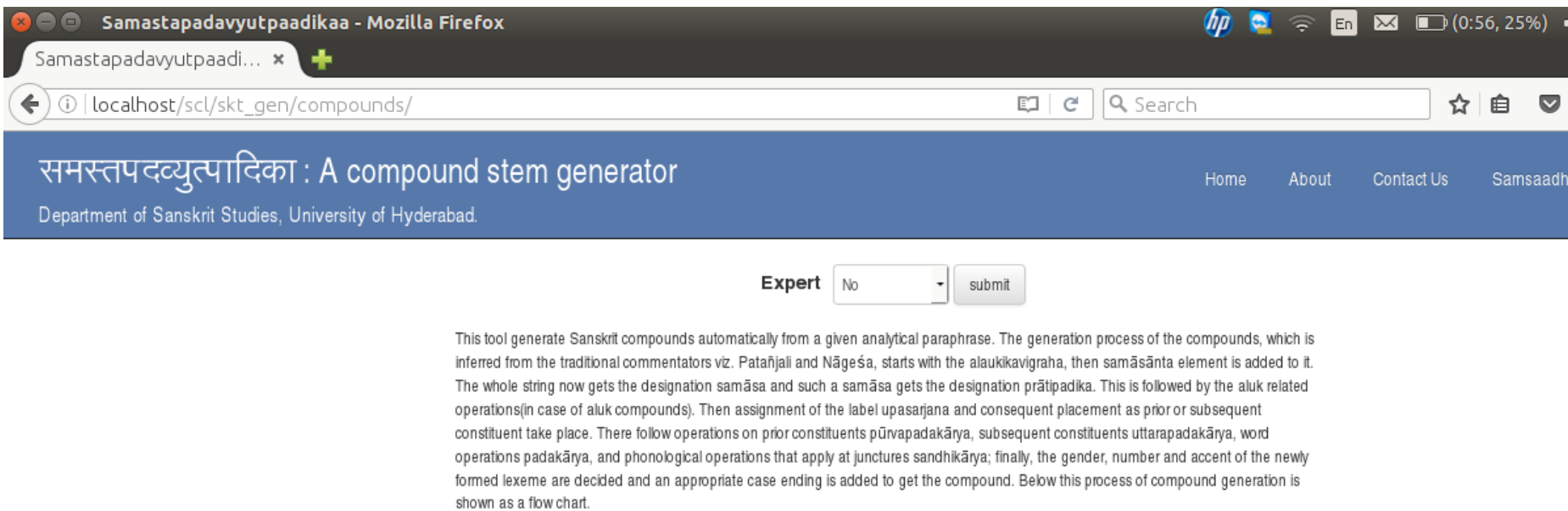
details regarding the above tools, refer to various published papers available here. Department is also engaged in and leads various projects.
localhost/scl/skt_gen/compounds

samastapada-vyutpādikā ...

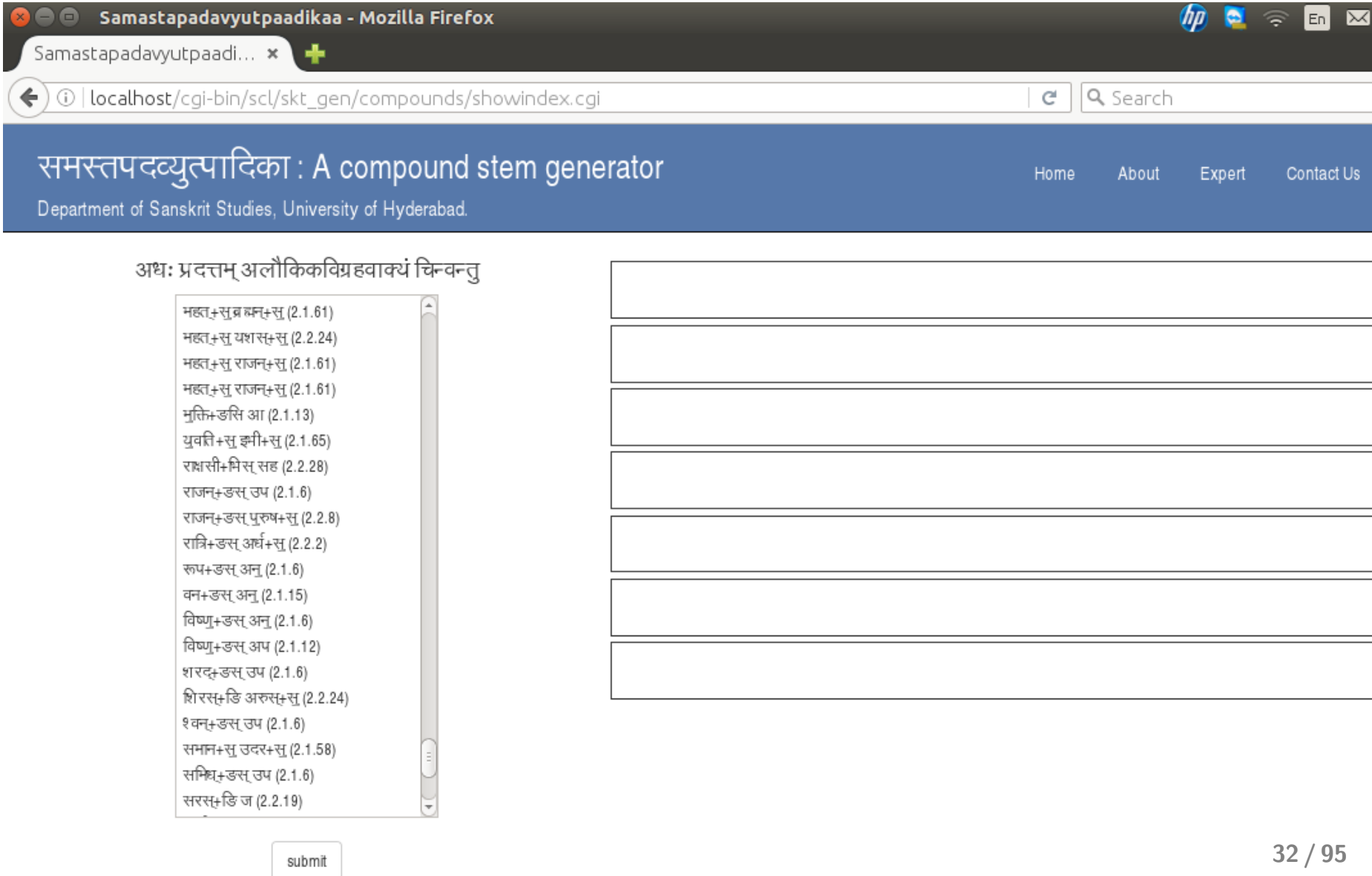
There are two modes: Expert and Non-expert

In non-expert mode, you can see the compound generation process following Aṣṭādhyāyī of a compound from a select list of around 500 examples.
In an expert mode, you can provide ANY alaukika vigraha. But you have to choose the relevant samāsa-vidhāyaka sūtra from the Aṣṭādhyāyī.

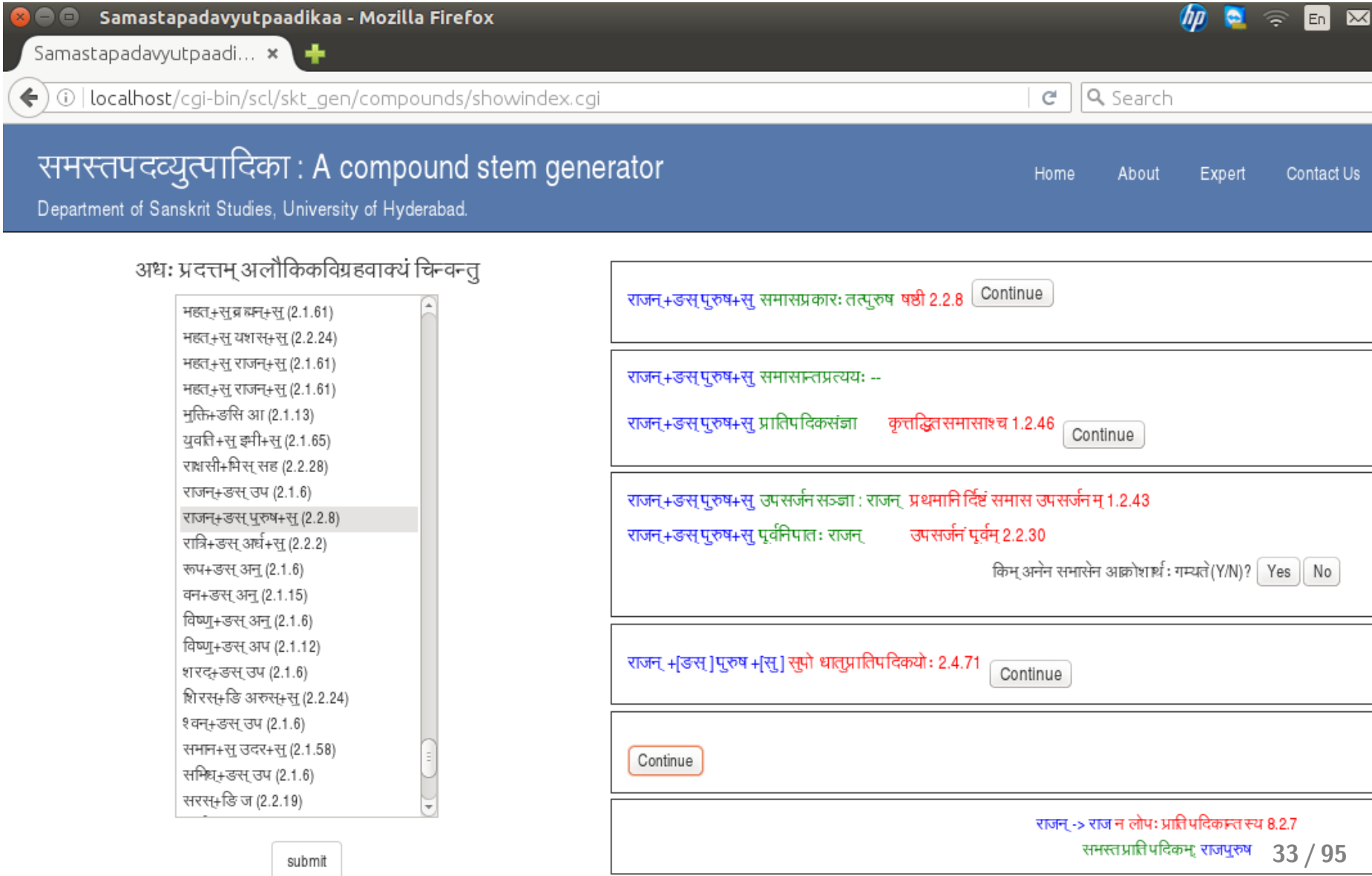


samastapada-vyutpādikā ...

Input: A repository of more than 500 alaukika vigrahas



Generation of a compound prātipadika राजपुरुष



Sandhi

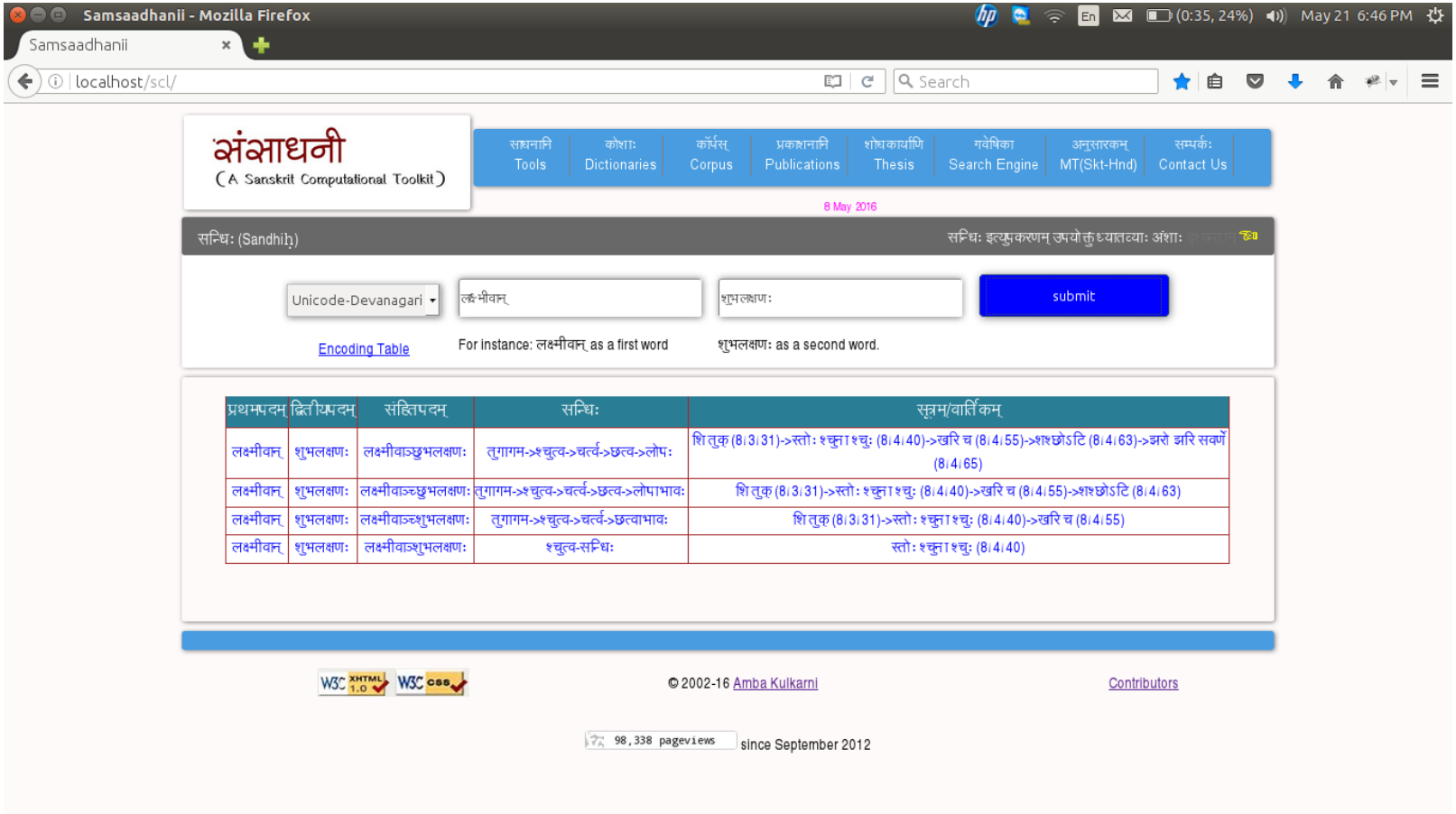
- Sandhi joiner
- Sandhi splitter

Sandhi joiner

Input: Two padas

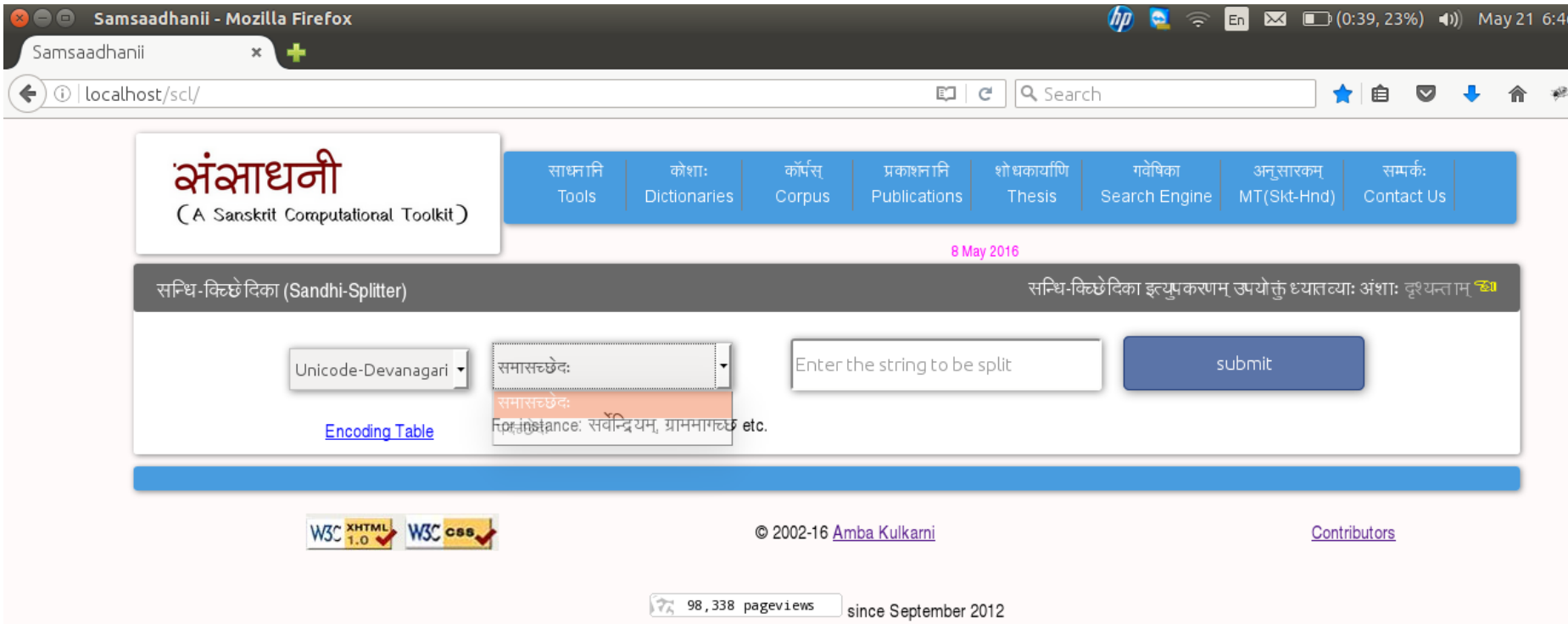
Sandhi joiner ...

Output: The sandhied form(s) along with the sūtras that were applied.

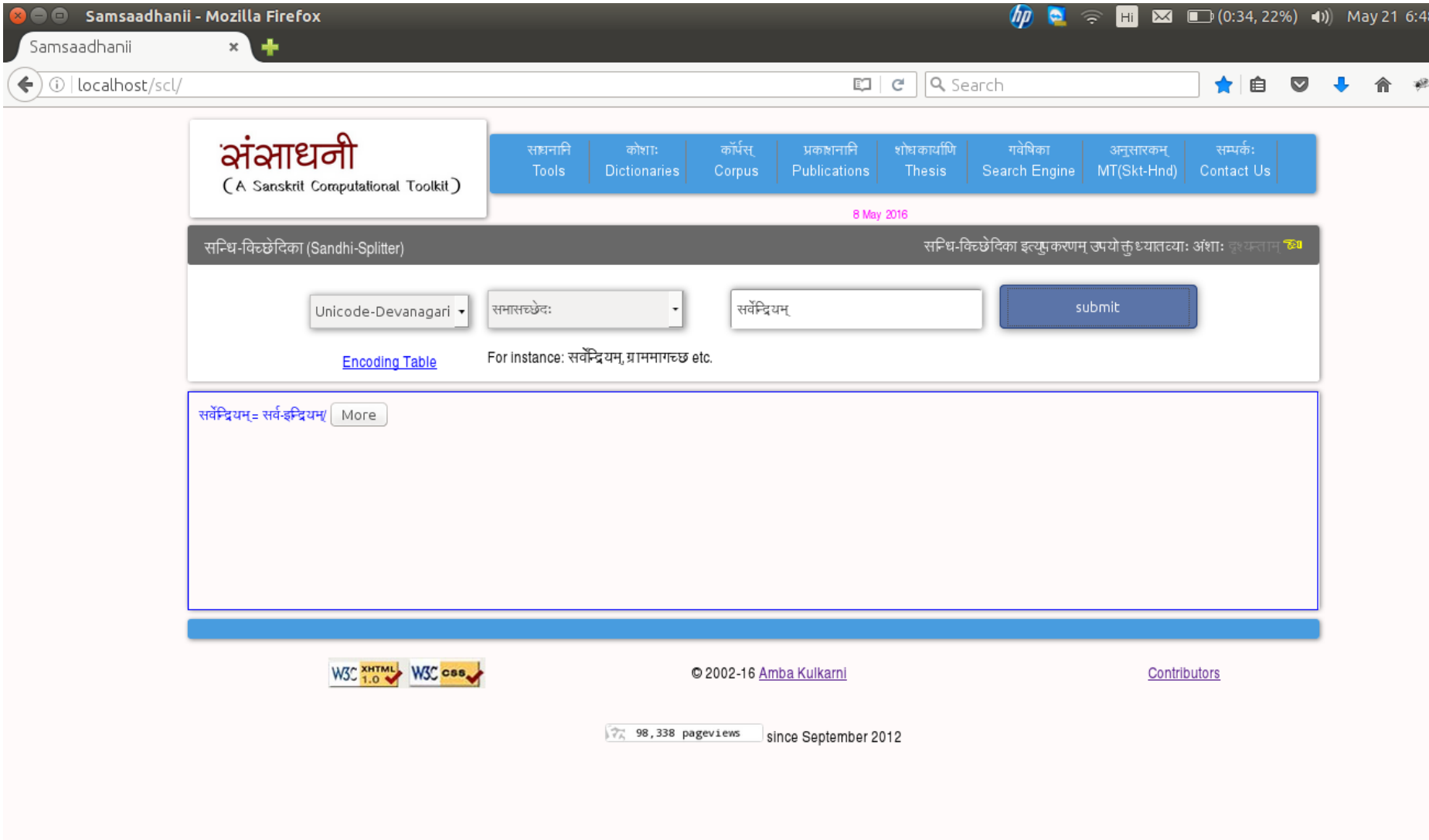


Sandhi viccheda

Input: A sandhied form, and the type of desired viccheda – viccheda of components in a compound (samāsaccheda), or normal sandhi viccheda between two padas (sandhi-viccheda)..

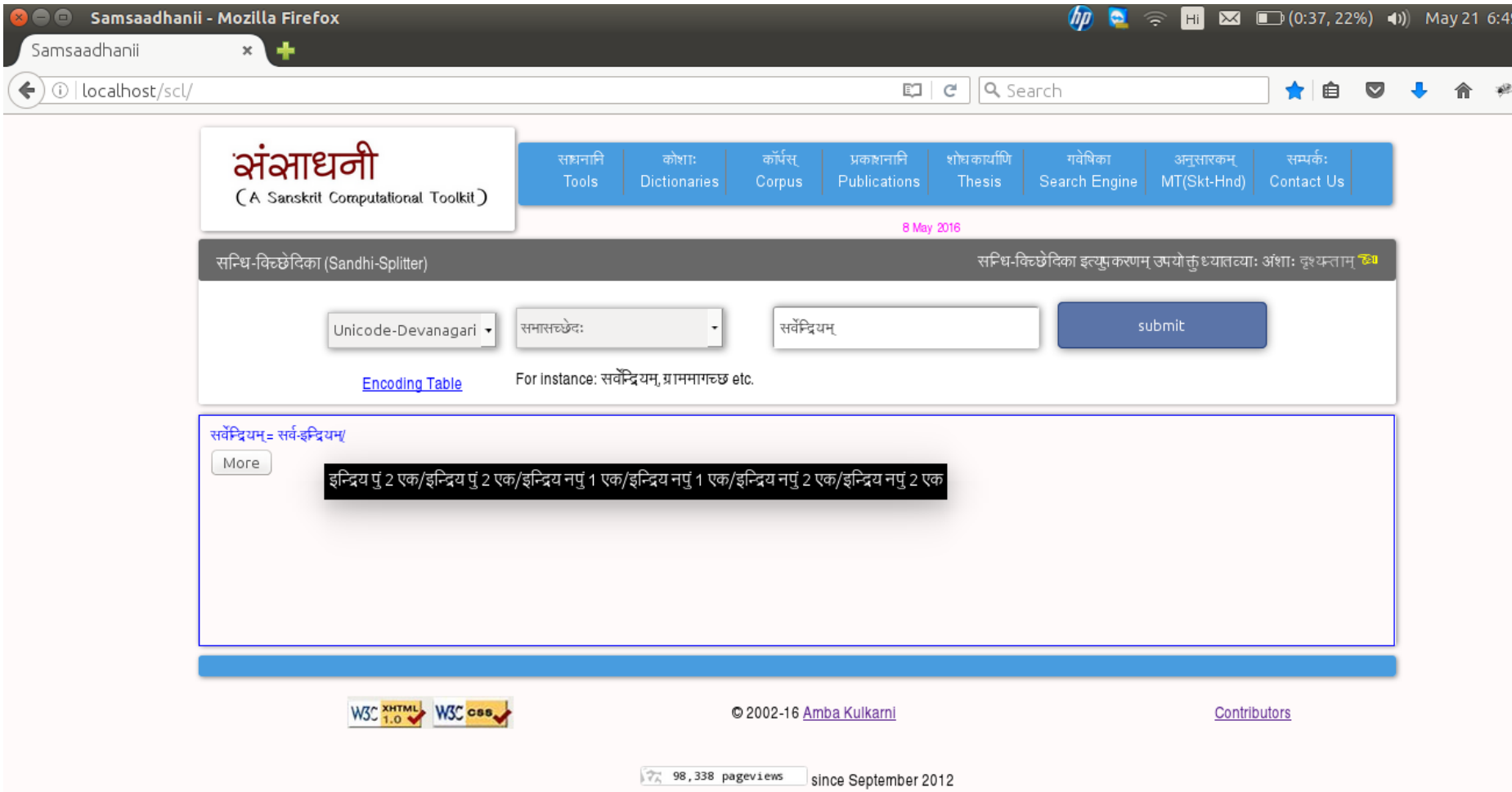


Sandhi viccheda ...



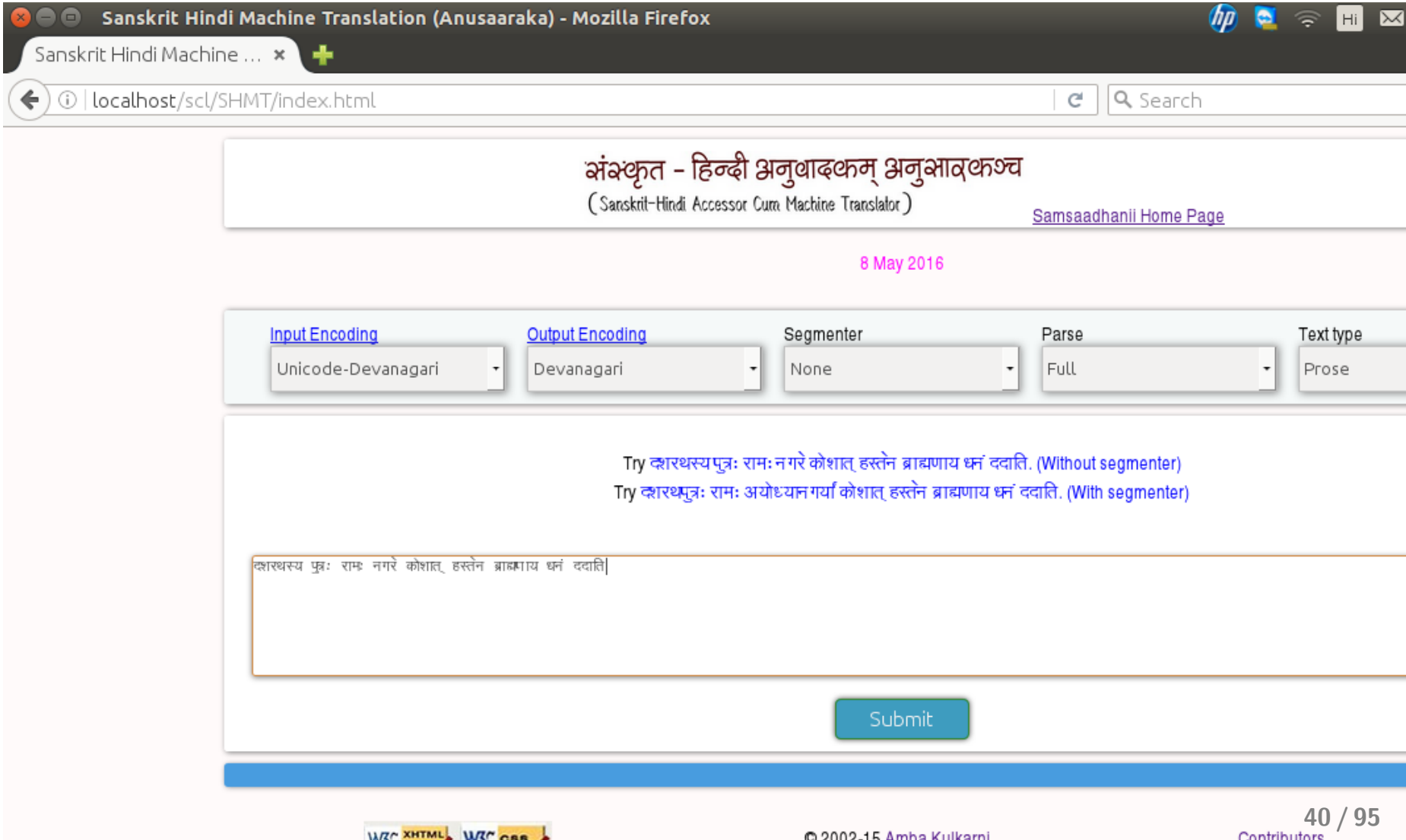
Sandhi viccheda ...

Sandhi viccheda ensures that the each of the component of the split is a valid pada. One can verify this by placing a cursor on any component and see the morphological analysis of that component.

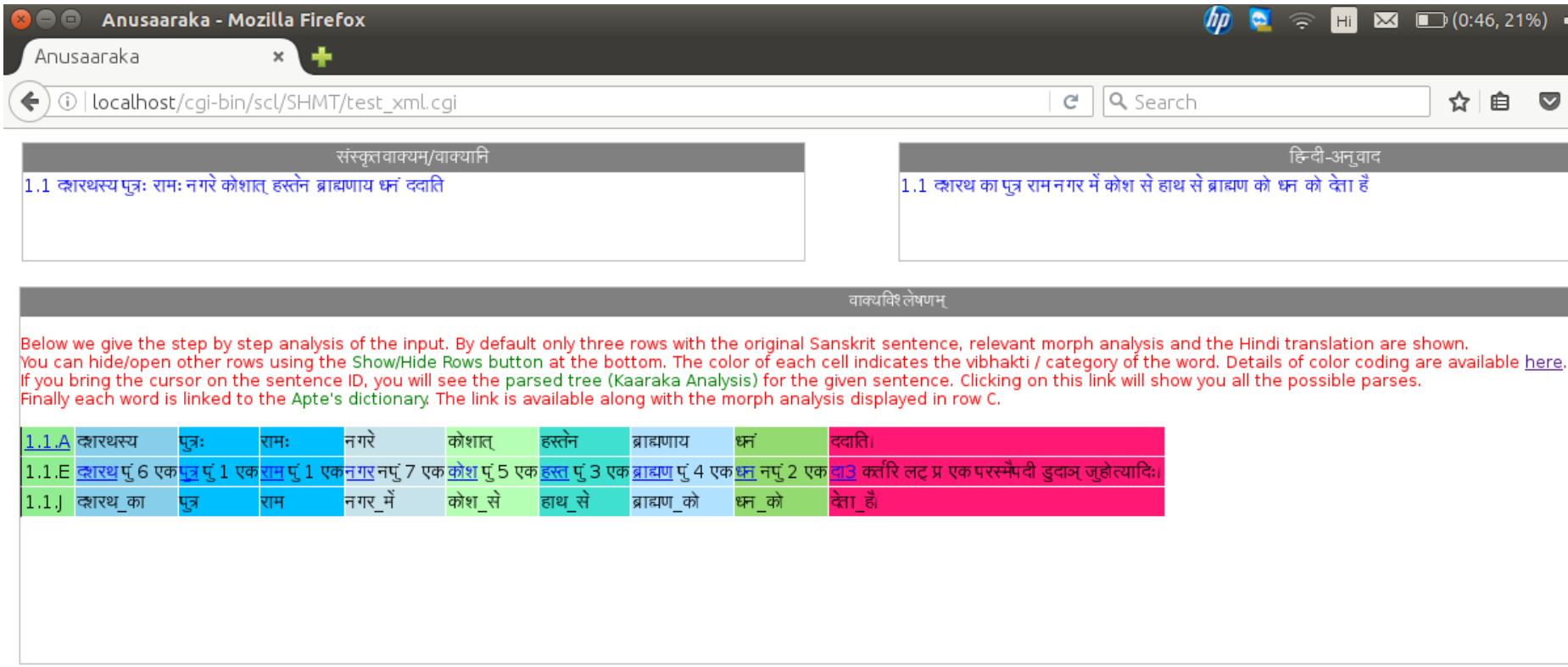


Sanskrit-Hindi Machine Translation and Accessor

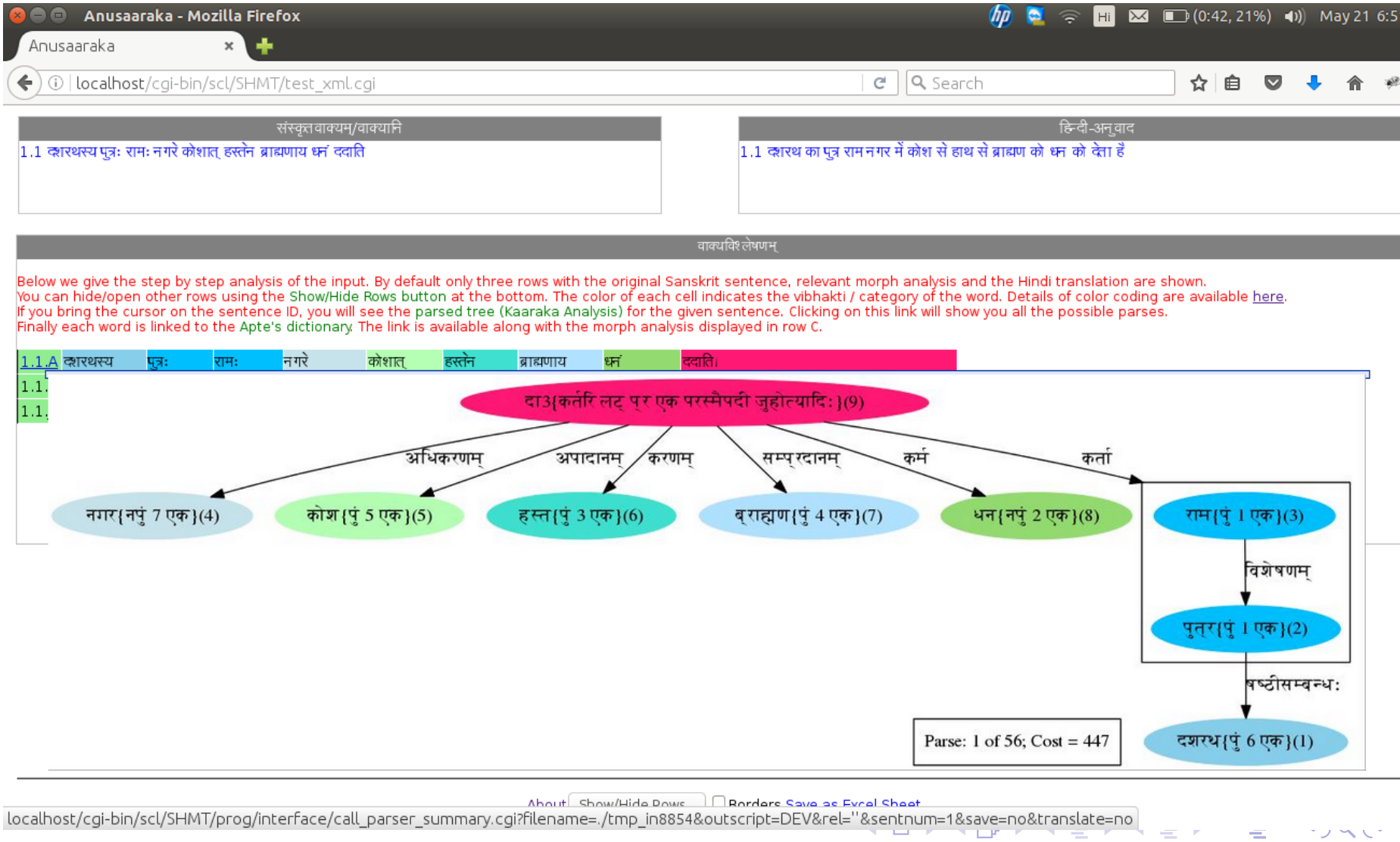
All these tools are joined together to get the translation from Sanskrit into Hindi.



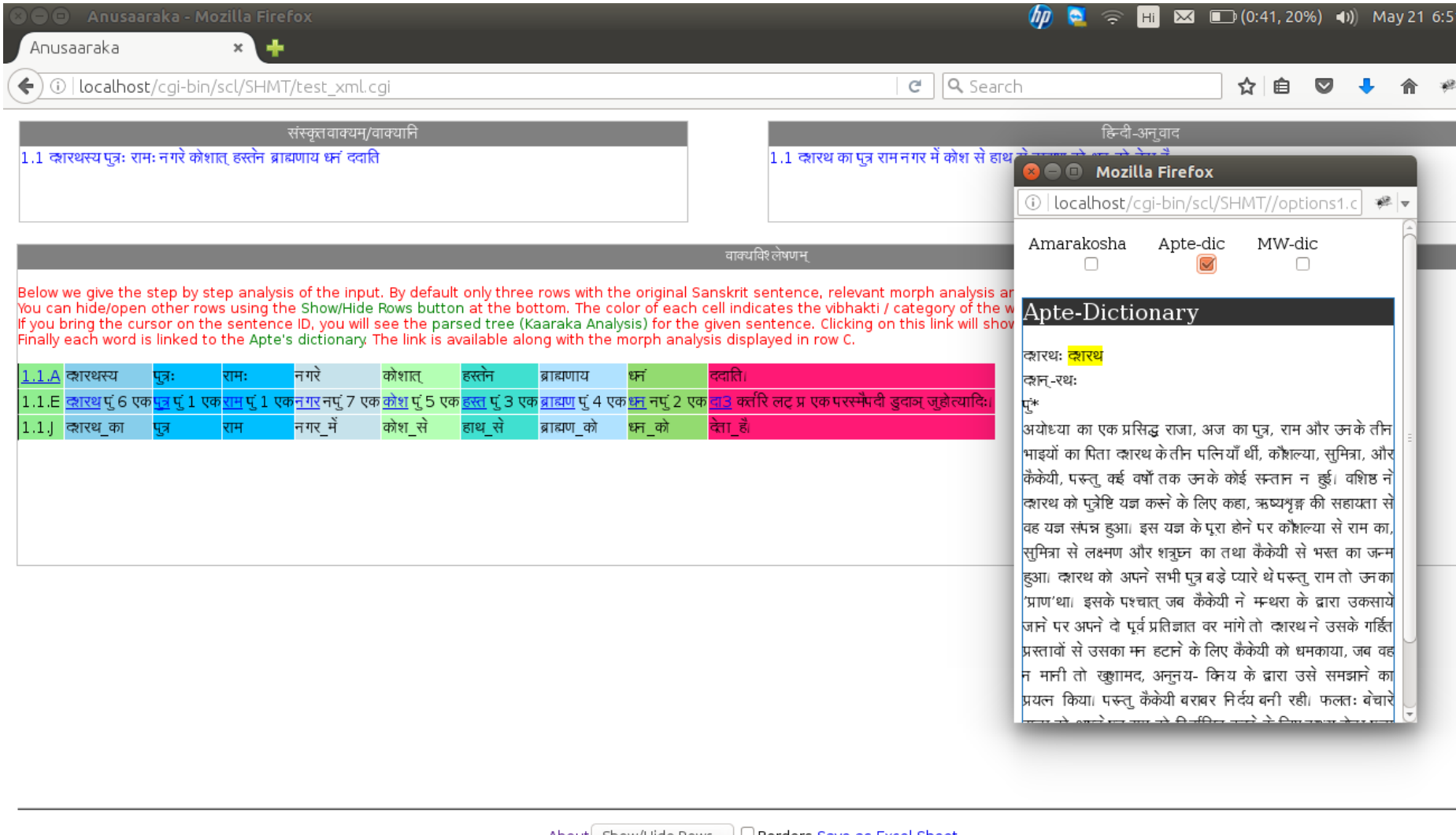
Output: Translation, with word by word meaning, and word analysis of each word.



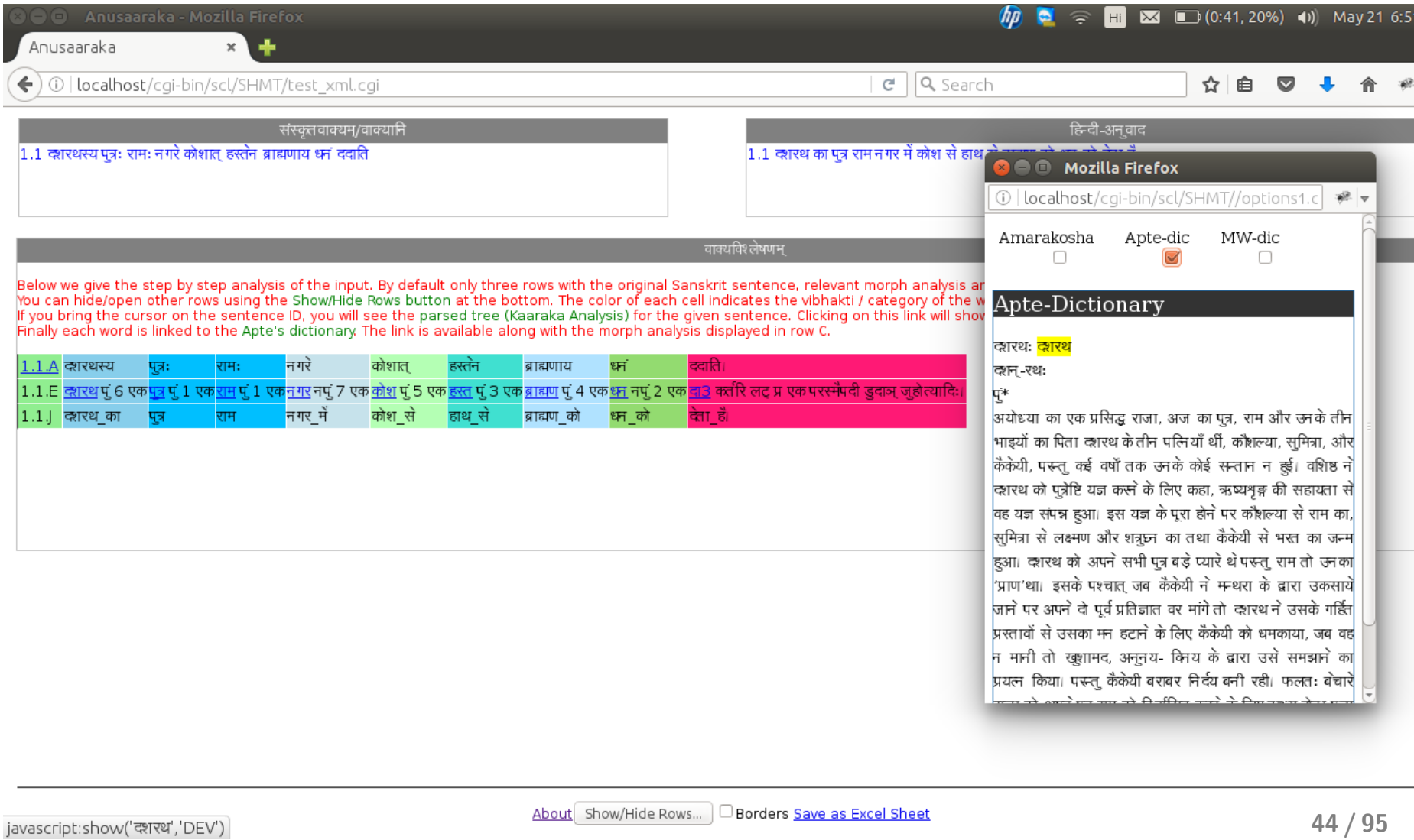
Kāraka Analysis



Each word is also linked to various dictionary entries



This analysis can also be stored as an Excel Sheet (see the bottom line).



Online readers

Online readers are developed manually correcting these Excel sheets.
These readers are equipped with the following features.

- Links to dictionary entry
- Word analysis
- Samasta-pada analysis
- Sentence analysis (kāraka Analysis)
- Translation into Hindi and English

Online readers ...

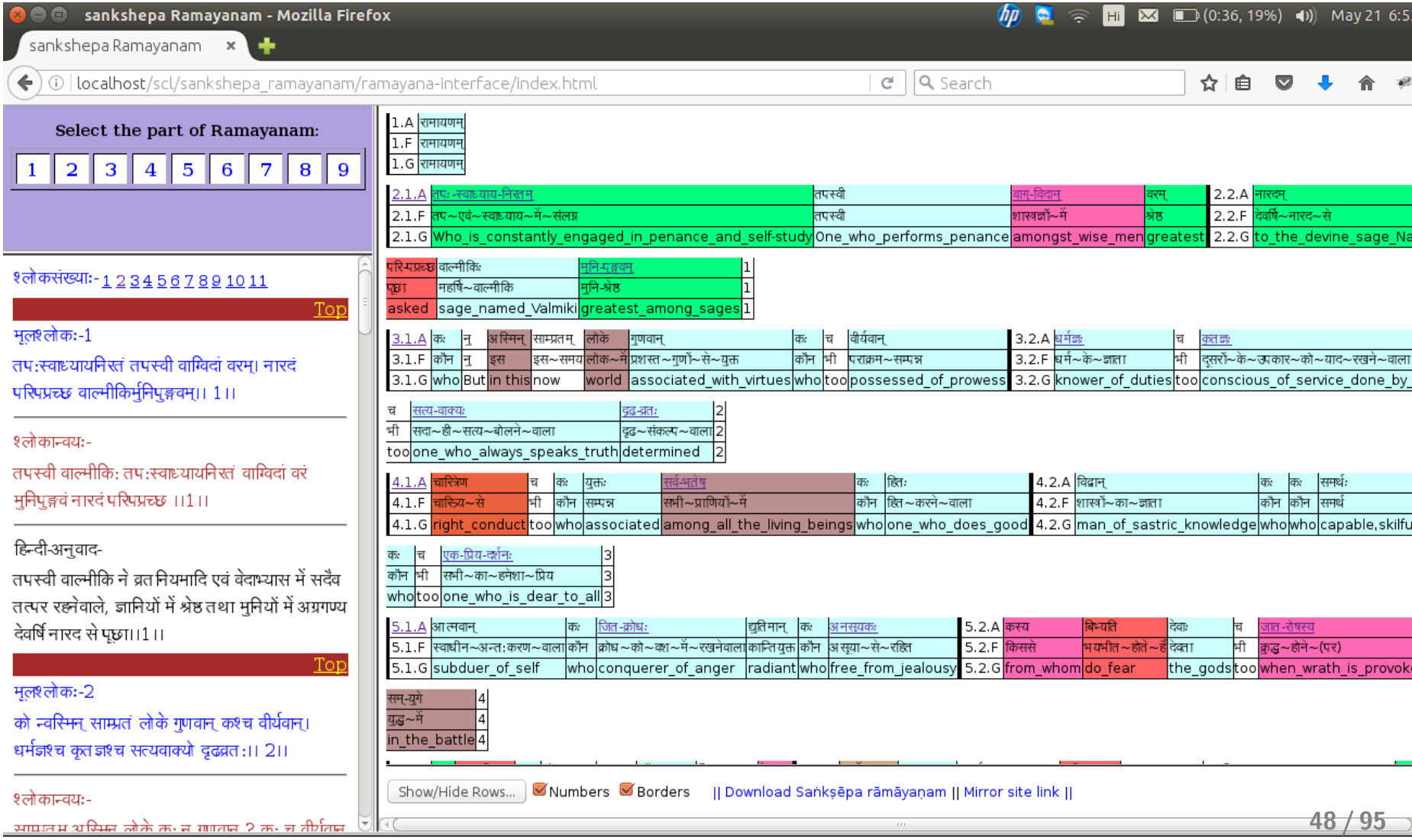
Three such readers are available

- Saṅkṣepa Rāmāyaṇam
- Srimad-Bagvad-Gītā
- Śiśupālavadham

Online Rāmāyaṇa reader ...

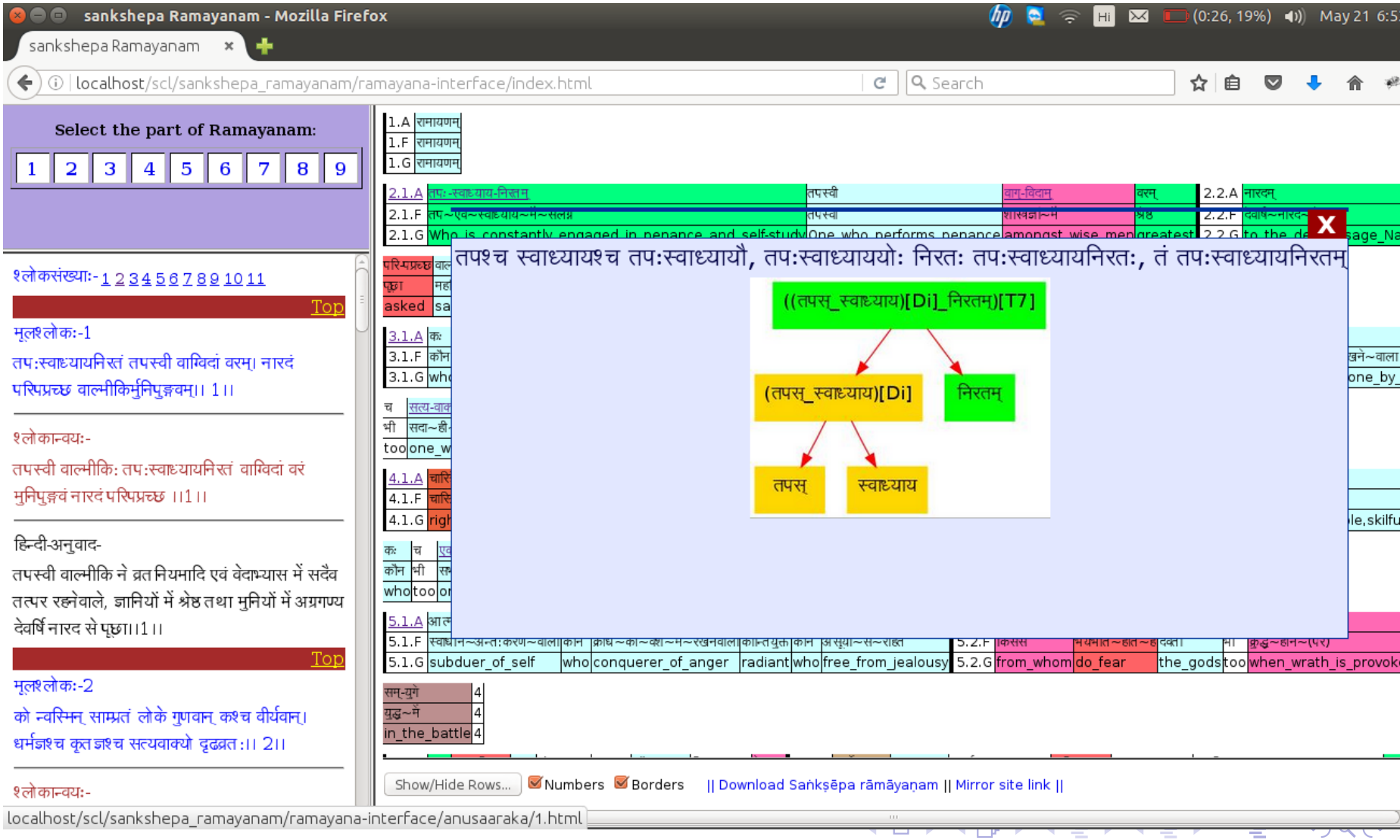
Online Rāmāyaṇa reader ...

Anvaya, Hindi translation, word-wise Hindi and English meaning.
Different colors for different vibhaktis for easy mental processing.



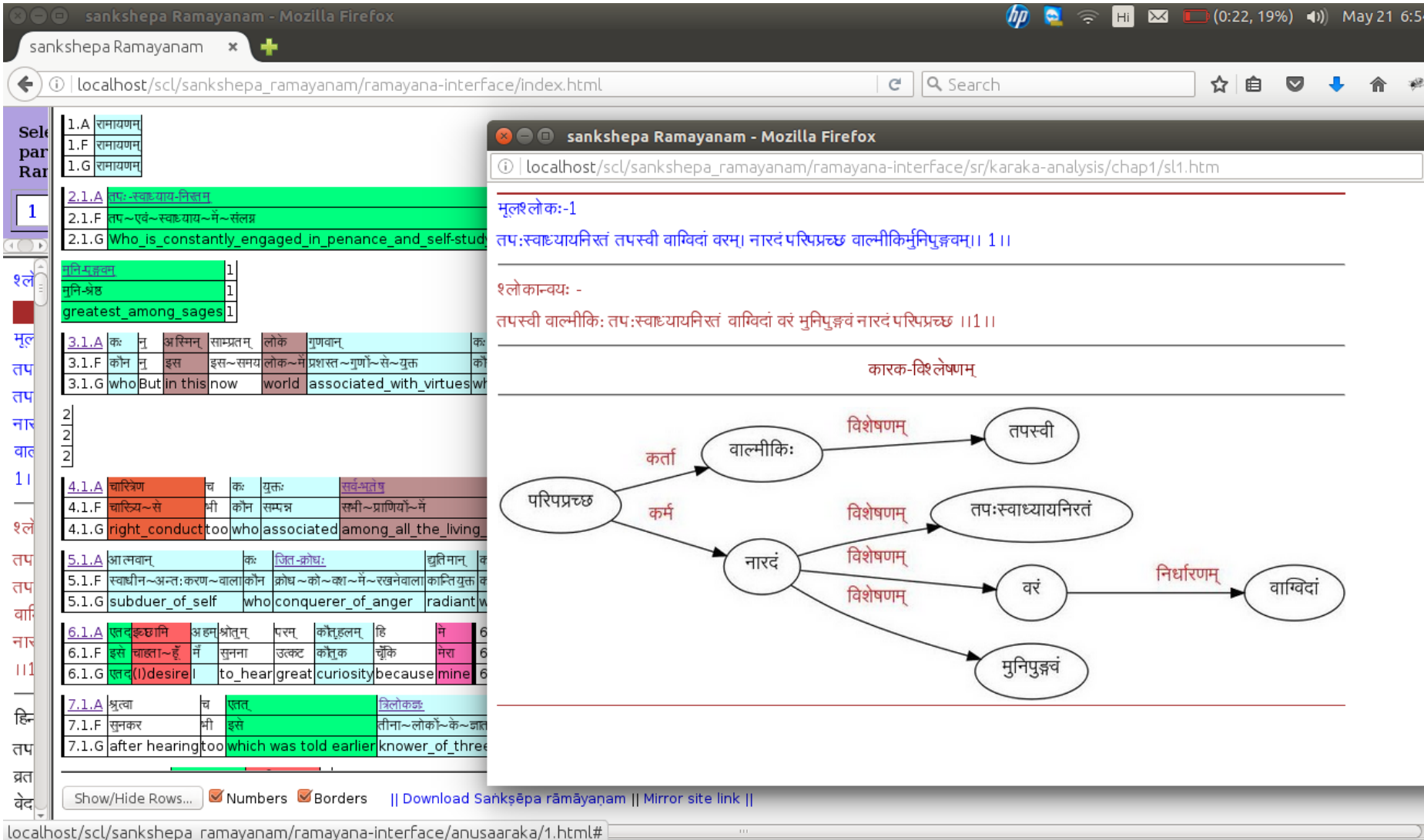
Online Rāmāyaṇa reader ...

A link to Samasta-pada-analysis, for each compound



Online Rāmāyaṇa reader ...

Complete Kāraka level analysis of each śloka



Online Srimad-Bhagvad-Gītā reader ...

Geeta - Mozilla Firefox

Geeta

localhost/scl/sbg/main.html

Search

भगवद्गीता

गीता सुगीता कर्तव्या किमन्यत् शास्त्रविस्तरैः

Welcome to the e-version of Bhagavad Geeta. The e-version captures the salient features of the book viz.,

- पदपाठः (padapāṭhaḥ)
- पदपरिचयः (padaparicayaḥ)
- आकाङ्क्षा (ākāṅkṣā)
- अन्वयः (anvayaḥ)

style of understanding a text, and present them in the e-form.

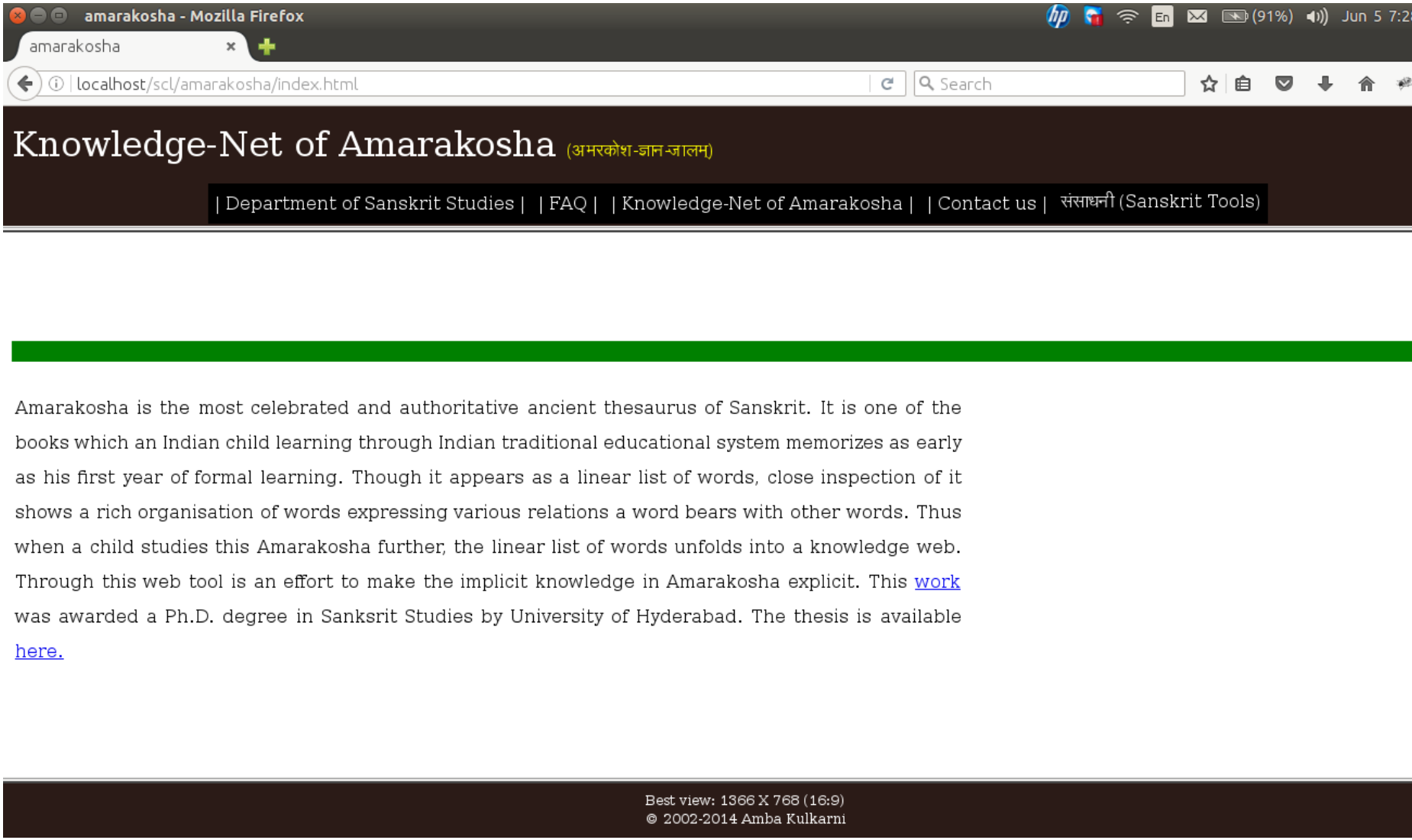
The advantage of the e-version is that the reader has full control over the interface and can choose to display only the relevant part. The department of Sanskrit Studies, in addition has provided the pictorial representation of the कारक (kāraka) analysis as well as समास (samāsa) analysis.

Select Chapter of Gita

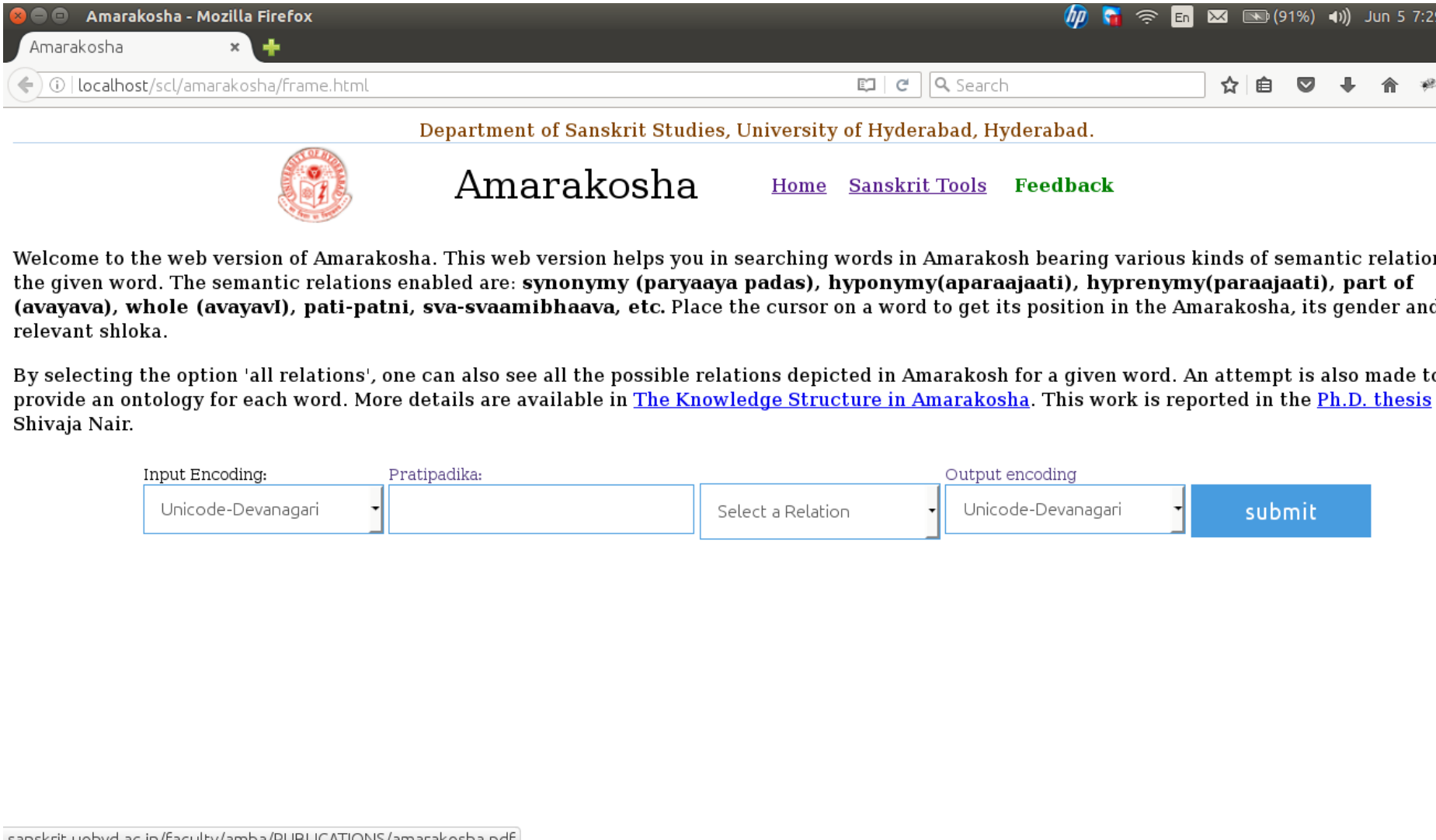
प्रथमः अध्यायः	दशमः अध्यायः
द्वितीयः अध्यायः	एकादशः अध्यायः
तृतीयः अध्यायः	द्वादशः अध्यायः
चतुर्थः अध्यायः	त्रयोदशः अध्यायः
पञ्चमः अध्यायः	चतुर्दशः अध्यायः
षष्ठः अध्यायः	पञ्चदशः अध्यायः
सप्तमः अध्यायः	षोडशः अध्यायः

Online Śiśupālavadham reader ...

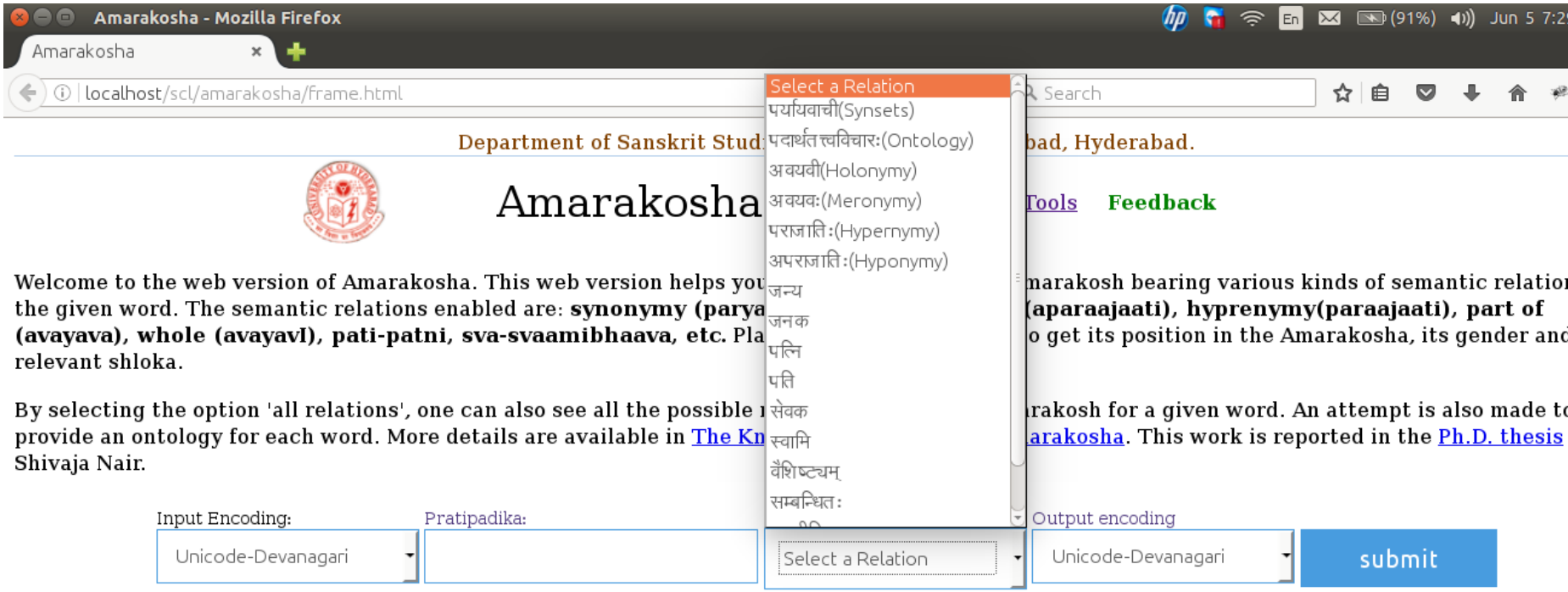
Amarakośa


amarakosha - Mozilla Firefox
amarakosha
localhost/scl/amarakosha/index.html
Search
Knowledge-Net of Amarakosha (अमरकोश-ज्ञान-जालम्)
| Department of Sanskrit Studies | | FAQ | | Knowledge-Net of Amarakosha | | Contact us | संसाधनी (Sanskrit Tools)
Amarakosha is the most celebrated and authoritative ancient thesaurus of Sanskrit. It is one of the books which an Indian child learning through Indian traditional educational system memorizes as early as his first year of formal learning. Though it appears as a linear list of words, close inspection of it shows a rich organisation of words expressing various relations a word bears with other words. Thus when a child studies this Amarakosha further, the linear list of words unfolds into a knowledge web. Through this web tool is an effort to make the implicit knowledge in Amarakosha explicit. This work was awarded a Ph.D. degree in Sanksrit Studies by University of Hyderabad. The thesis is available here.
Best view: 1366 X 768 (16:9)
© 2002-2014 Amba Kulkarni

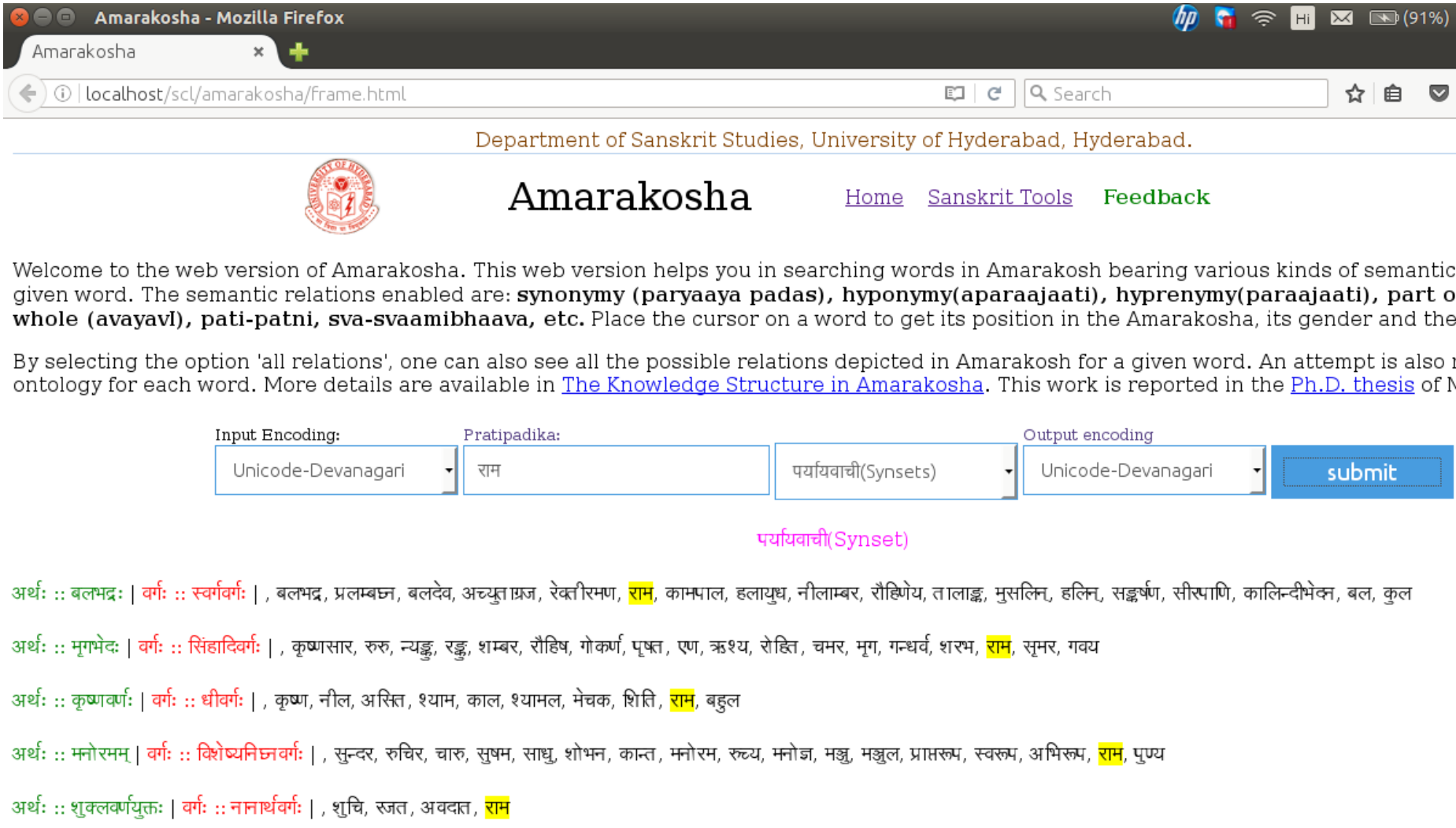
Input:


Amarakosha - Mozilla Firefox
Amarakosha
localhost/scl/amarakosha/frame.html
Search
Department of Sanskrit Studies, University of Hyderabad, Hyderabad.
Amarakosha
Home
Sanskrit Tools
Feedback
Welcome to the web version of Amarakosha. This web version helps you in searching words in Amarakosh bearing various kinds of semantic relatio
the given word. The semantic relations enabled are: synonymy (paryaaya padas), hyponymy(aparaajaati), hyprenymy(paraajaati), part of
(avayava), whole (avayavI), pati-patni, sva-svaamibhaava, etc. Place the cursor on a word to get its position in the Amarakosha, its gender and
relevant shloka.
By selecting the option 'all relations', one can also see all the possible relations depicted in Amarakosh for a given word. An attempt is also made t
provide an ontology for each word. More details are available in The Knowledge Structure in Amarakosha. This work is reported in the Ph.D. thesis
Shivaja Nair.
Input Encoding:
Unicode-Devanagari
Pratipadika:
Select a Relation
Output encoding
Unicode-Devanagari
submit
sanskrit.uohyd.ac.in/faculty/amba/PUBLICATIONS/amarakosha.pdf

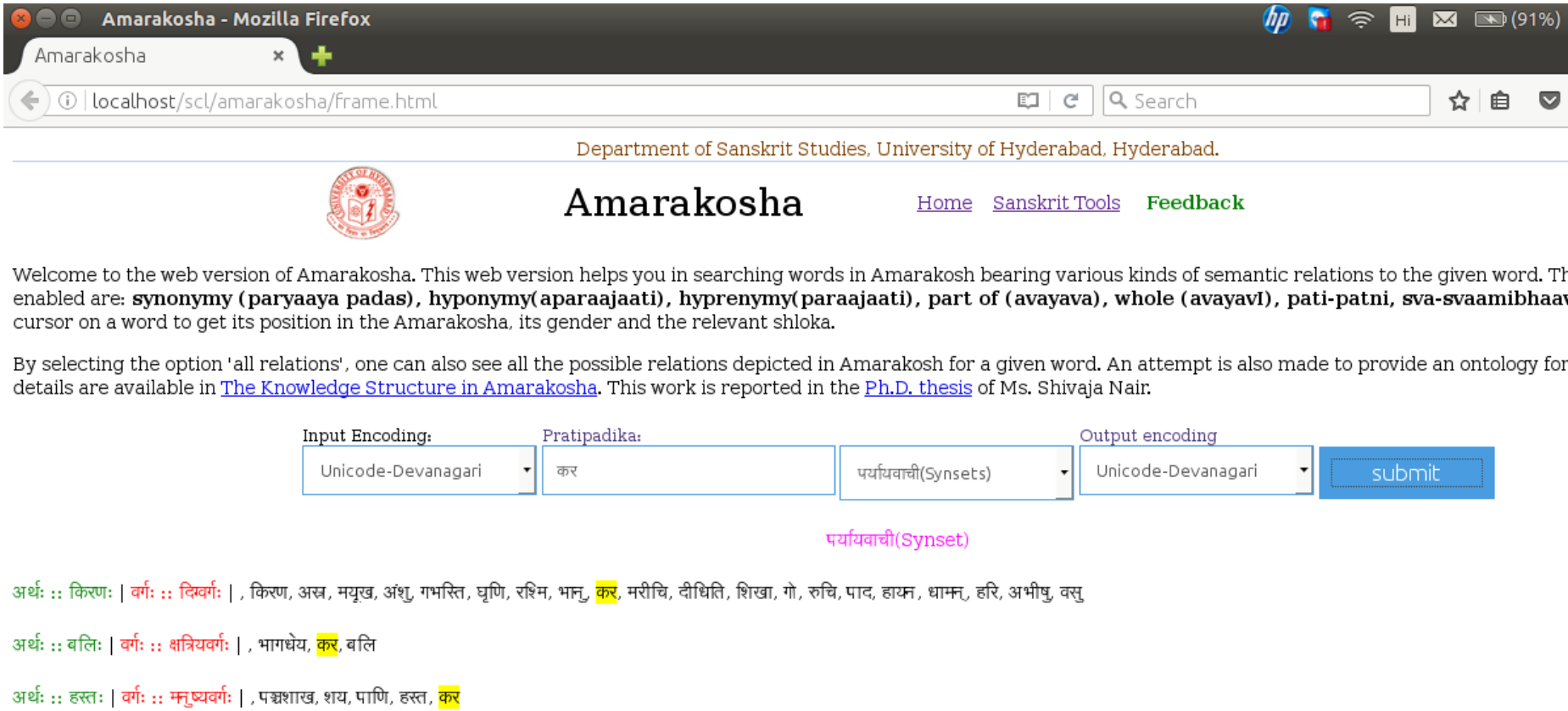
Choose a desired relation from drop-down menu



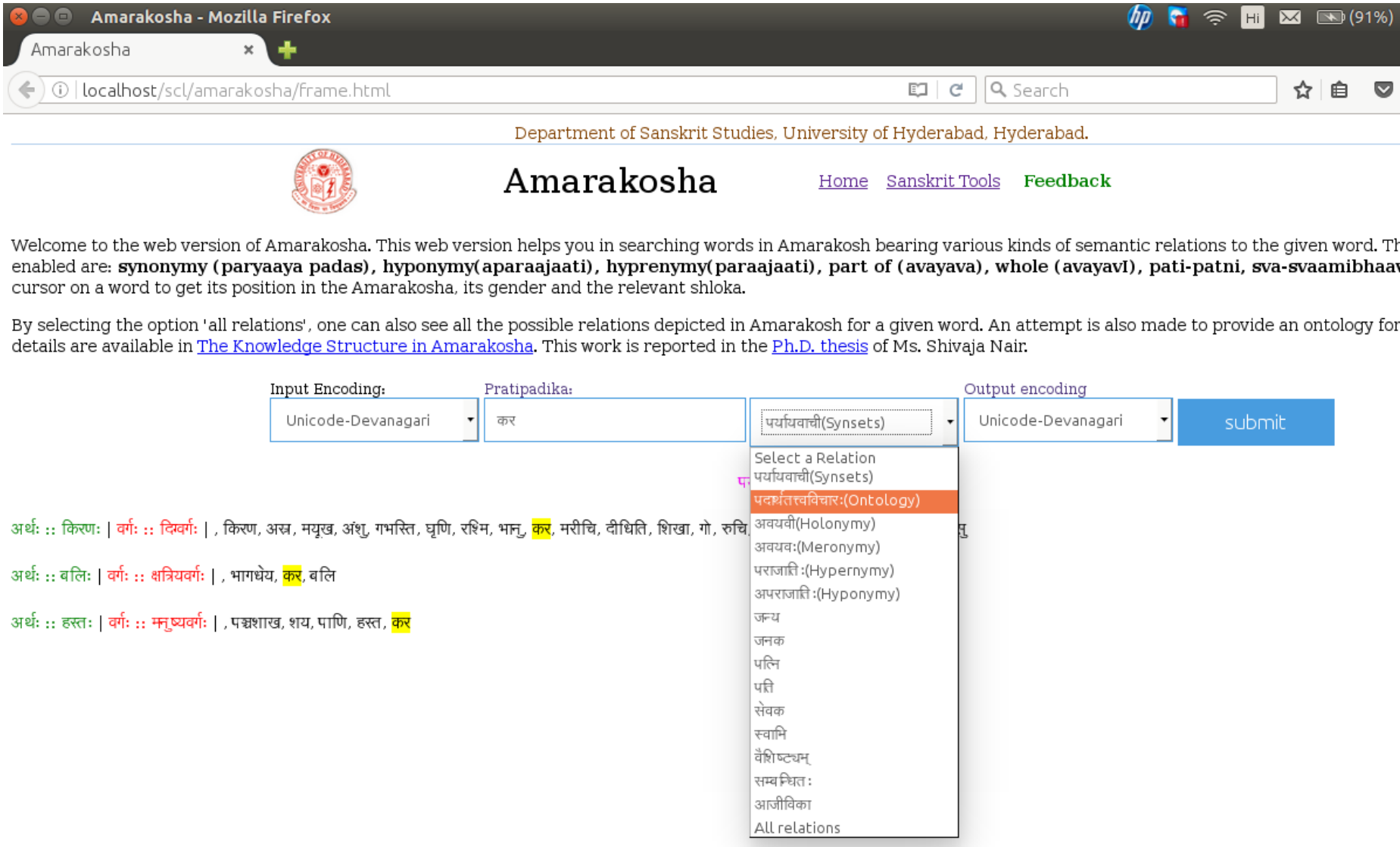
Paryāyavācī śabda for राम



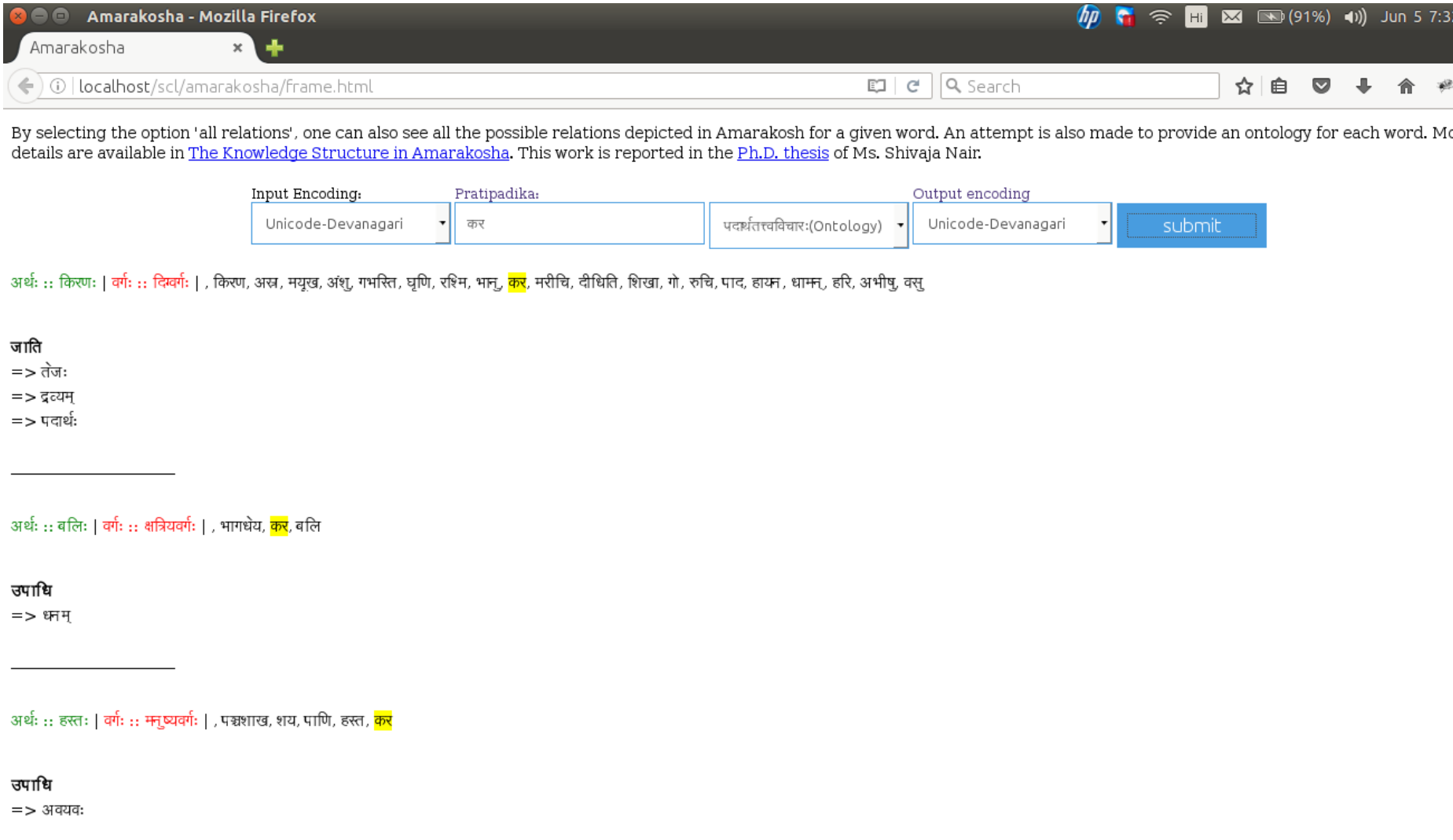
Paryāyavācī śabda for कर



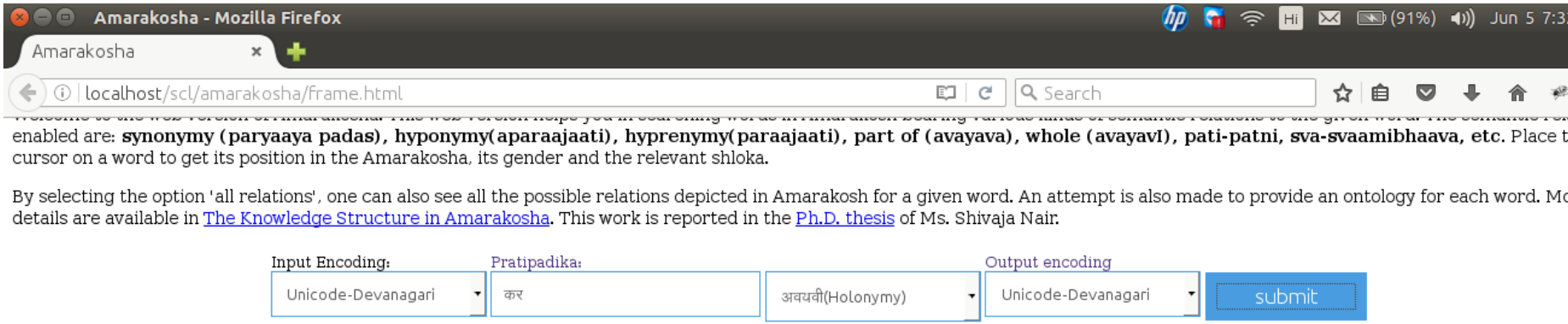
Ontological information



Ontological information corresponding to each meaning



Homonymy information



अर्थः :: किरणः | वर्गः :: दिग्वर्गः | , किरण, अस्र, मयूख, अंशु, गभस्ति, घृणि, रश्मि, भानु, कर, मरीचि, दीधिति, शिखा, गो, रुचि, पाद, हायन, धाम्न, हरि, अभीषु, वसु

अवयवी(Holonymy)

अर्थः :: सूर्यः | वर्गः :: दिग्वर्गः | , सूर, सूर्य, अर्यम्न, आदित्य, द्वादशात्मन, दिवाकर, भास्कर, अहस्कर, ब्रध्न, प्रभाकर, विभाकर, भास्वत, विवस्वत, सप्ताश्व, हरिदश्व, उष्णरश्मि, विकर्तन, अर्क, मार्ताण्ड, मिहिर, अरुण, पूषन, द्युमणि, तरणि, मित्र, चित्रभानु, विरोचन, वि
ग्रहपति, त्विषाम्पति, अहर्पति, भानु, हंस, सहस्रांशु, तपन, सवितृ, रवि, पद्माक्ष, तेजसांराशि, छायानाथ, तमिस्रहन, कर्मसाक्षिन, जगच्चक्षुस, लोकबन्धु, त्रयीतनु, प्रद्योतन, किमणि, खद्योत, लोकबान्धव, इन, भग, धामनिधि, अंशुमालिन, अब्जिनीपति, चण्डांशु, क, खग, प
तमोनुद, विश्वकर्म्न, अद्रि, हरि, हेलि, अवि, अंशु, तमोपह

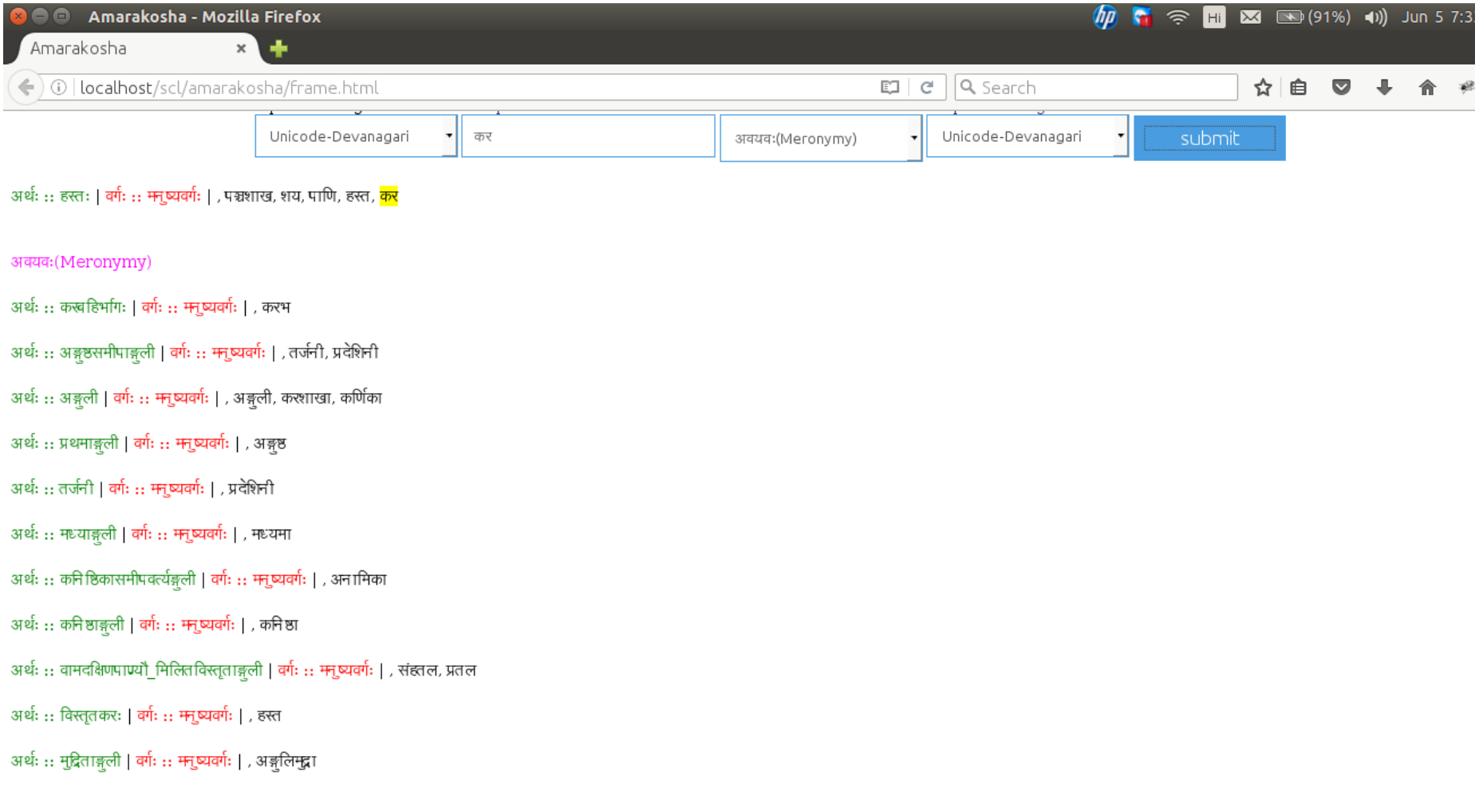
अर्थः :: हस्तः | वर्गः :: मनुष्यवर्गः | , पञ्चशाख, शय, पाणि, हस्त, कर

अवयवी(Holonymy)

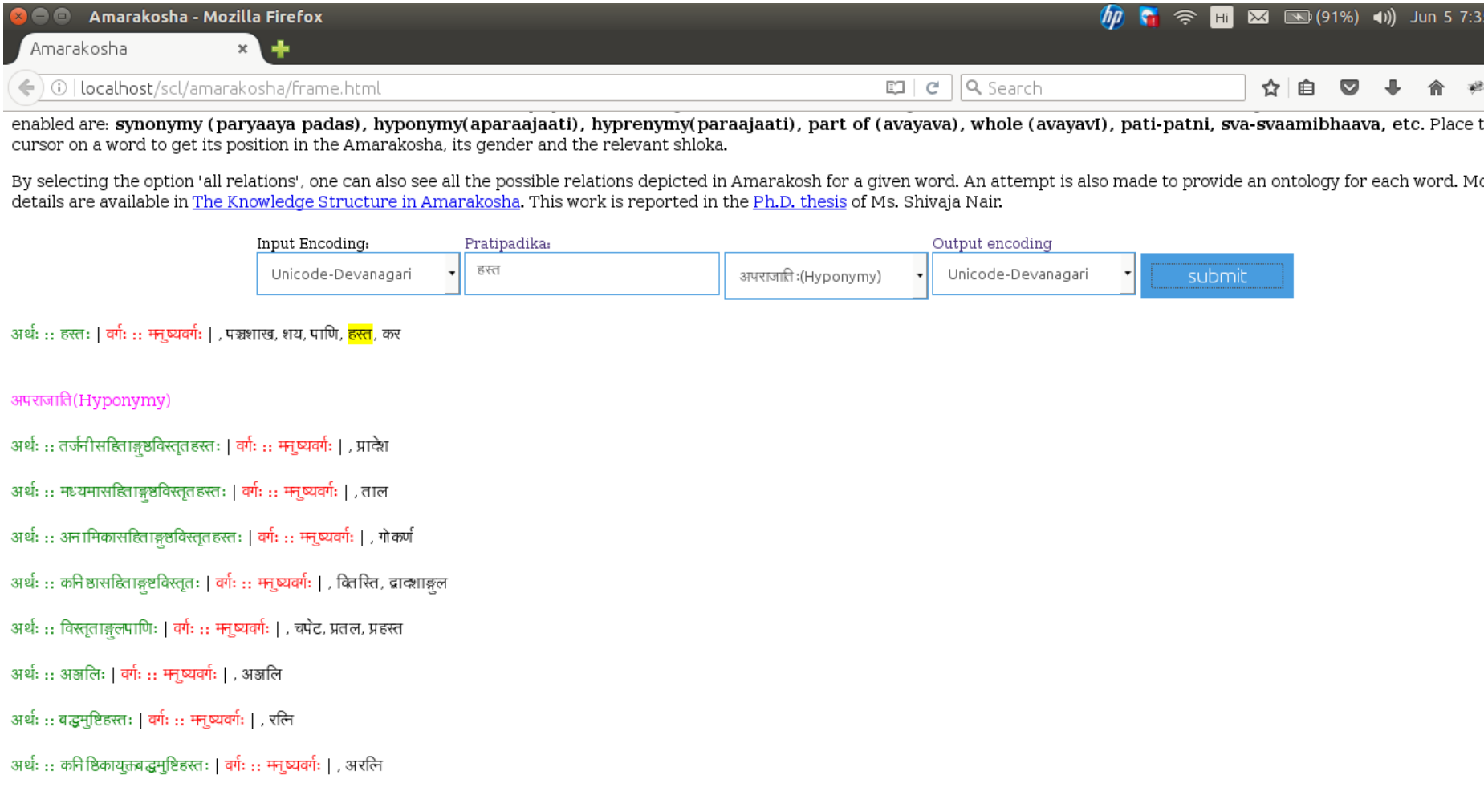
अर्थः :: भुजः | वर्गः :: मनुष्यवर्गः | , भुज, बाहु, प्रवेष्ट, दोस्

अर्थः :: देहः | वर्गः :: मनुष्यवर्गः | , कलेवर, गात्र, वपुस, संहनन, शरीर, वर्ष्मन, विग्रह, काय, देह, मूर्ति, तनु, तनू, करण, उत्सेध, भूतात्मन, आत्मन, धाम्न, क्षेत्र, अजिर

Synonyms for each holonym



Hypernyms


Amarakosha - Mozilla Firefox
Amarakosha
localhost/scl/amarakosha/frame.html
Search
enabled are: synonymy (paryaaya padas), hyponymy(aparaajaati), hyprenymy(paraajaati), part of (avayava), whole (avayavI), pati-patni, sva-svaamibhaava, etc. Place t
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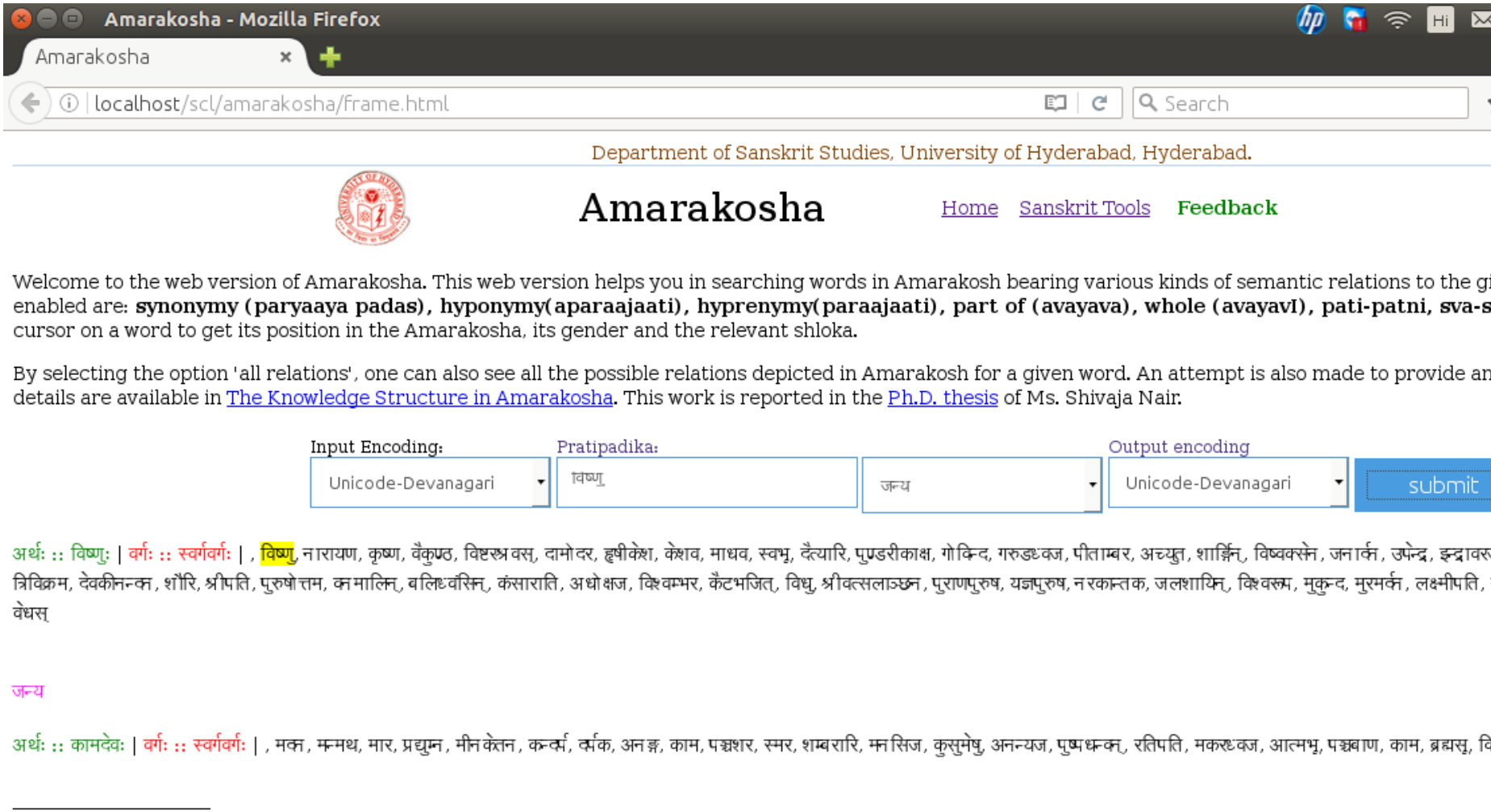
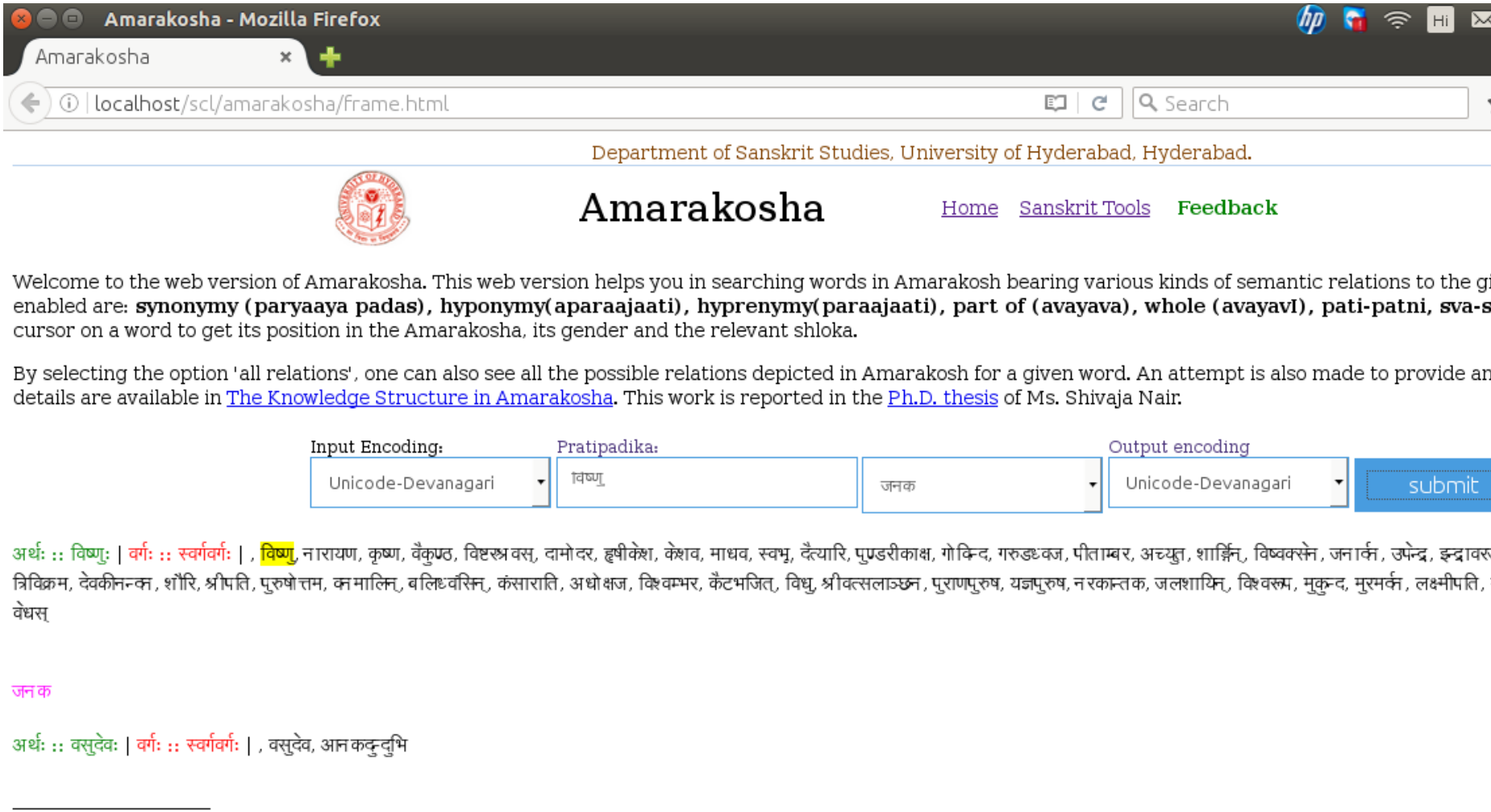
details are available in The Knowledge Structure in Amarakosha. This work is reported in the Ph.D. thesis of Ms. Shivaja Nair.
Input Encoding:
Unicode-Devanagari
Pratipadika:
हस्त
अपराजाति :(Hyponymy)
Output encoding
Unicode-Devanagari
submit
अर्थः :: हस्तः | वर्गः :: मनुष्यवर्गः | , पञ्चशाख, शय, पाणि, हस्त, कर
अपराजाति(Hyponymy)
अर्थः :: तर्जनीसहिताङ्गुष्ठविस्तृतहस्तः | वर्गः :: मनुष्यवर्गः | , प्रादेश
अर्थः :: मध्यमासहिताङ्गुष्ठविस्तृतहस्तः | वर्गः :: मनुष्यवर्गः | , ताल
अर्थः :: अनामिकासहिताङ्गुष्ठविस्तृतहस्तः | वर्गः :: मनुष्यवर्गः | , गोकर्ण
अर्थः :: कनिष्ठासहिताङ्गुष्टविस्तृतः | वर्गः :: मनुष्यवर्गः | , वितस्ति, द्वादशाङ्गुल
अर्थः :: विस्तृताङ्गुलपाणिः | वर्गः :: मनुष्यवर्गः | , चपेट, प्रतल, प्रहस्त
अर्थः :: अञ्जलिः | वर्गः :: मनुष्यवर्गः | , अञ्जलि
अर्थः :: बद्धमुष्टिहस्तः | वर्गः :: मनुष्यवर्गः | , रत्नि
अर्थः :: कनिष्ठिकायुक्तबद्धमुष्टिहस्तः | वर्गः :: मनुष्यवर्गः | , अरत्नि

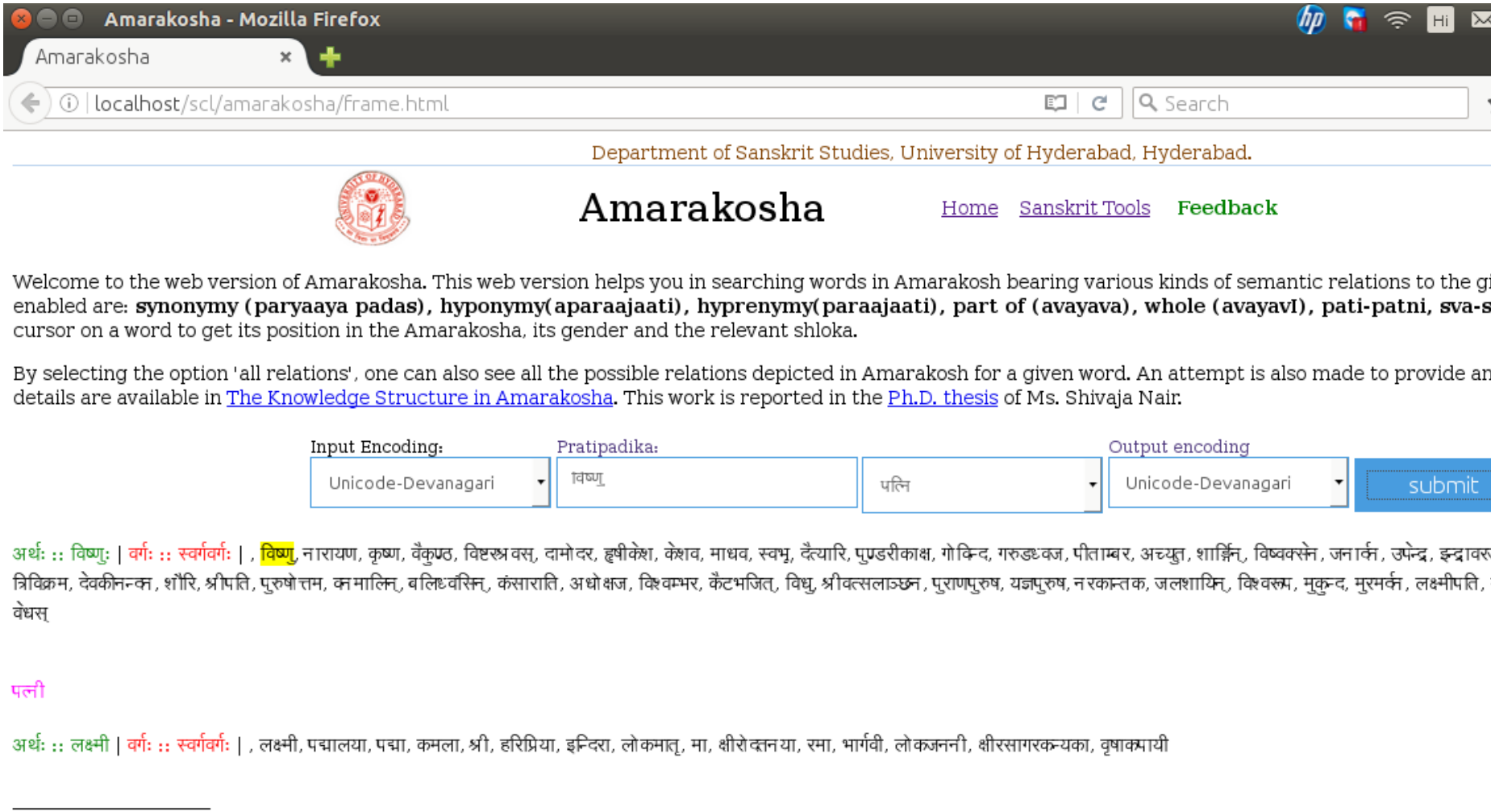
Synonyms of son



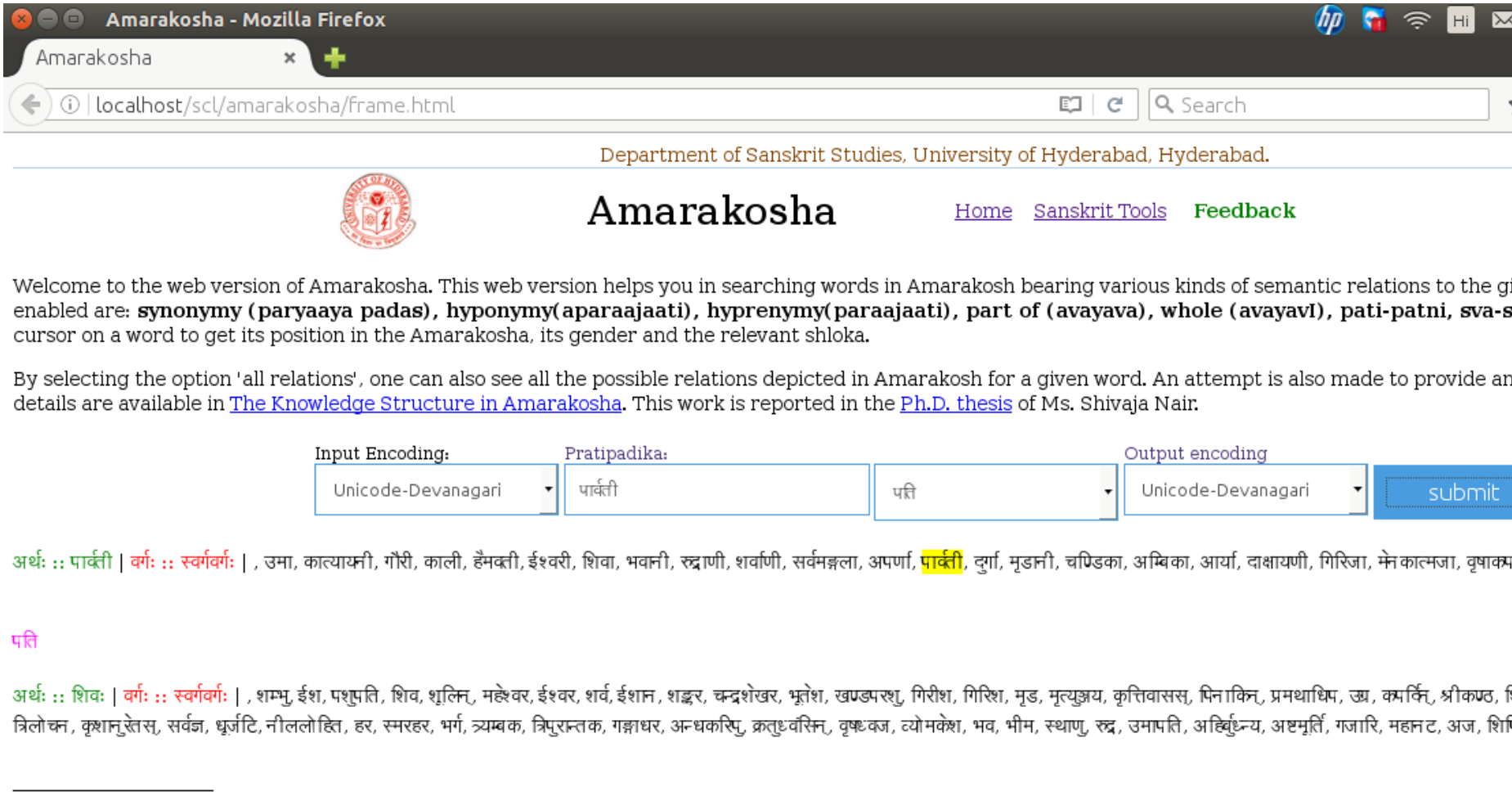
Synonyms of father



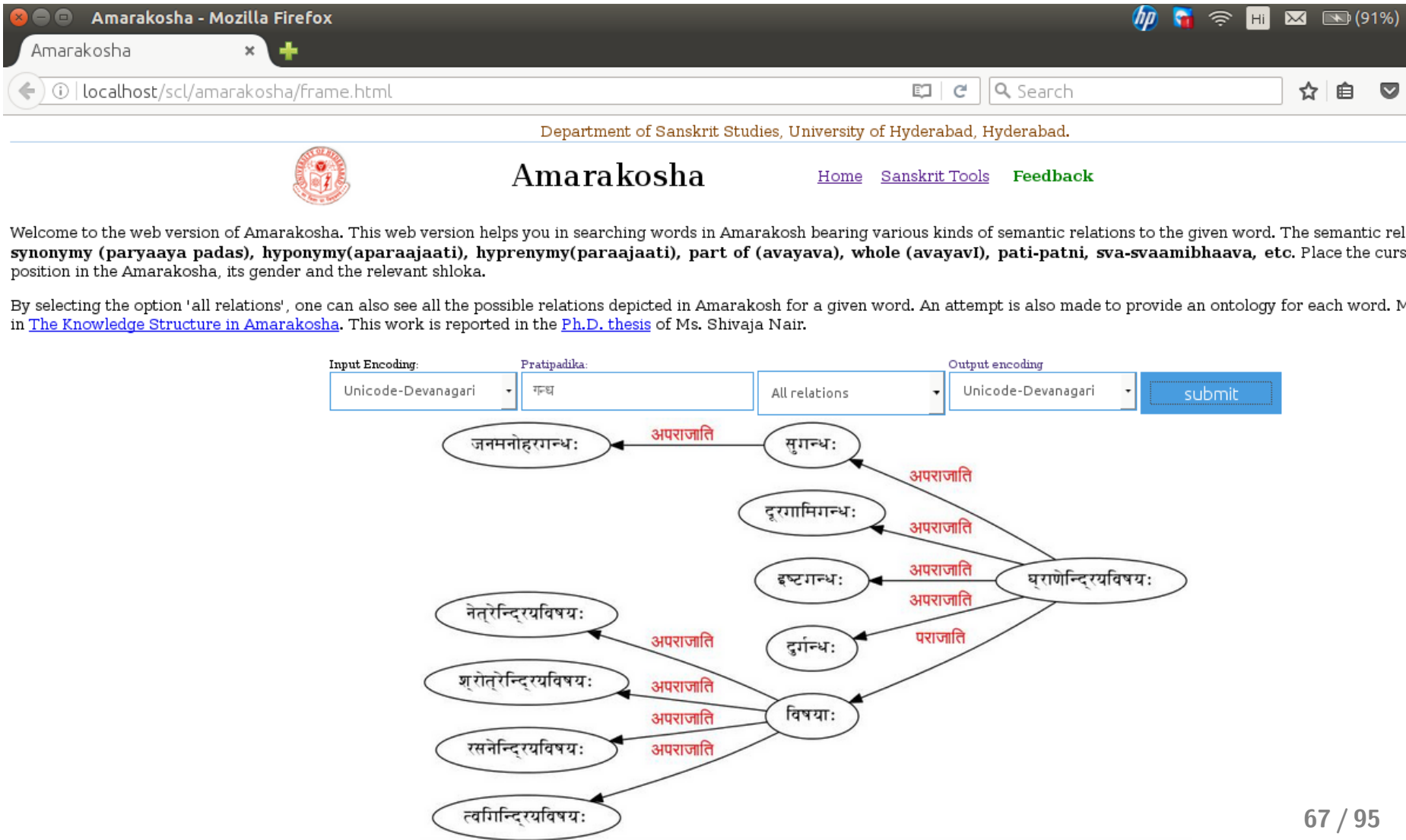
Synonyms of wife



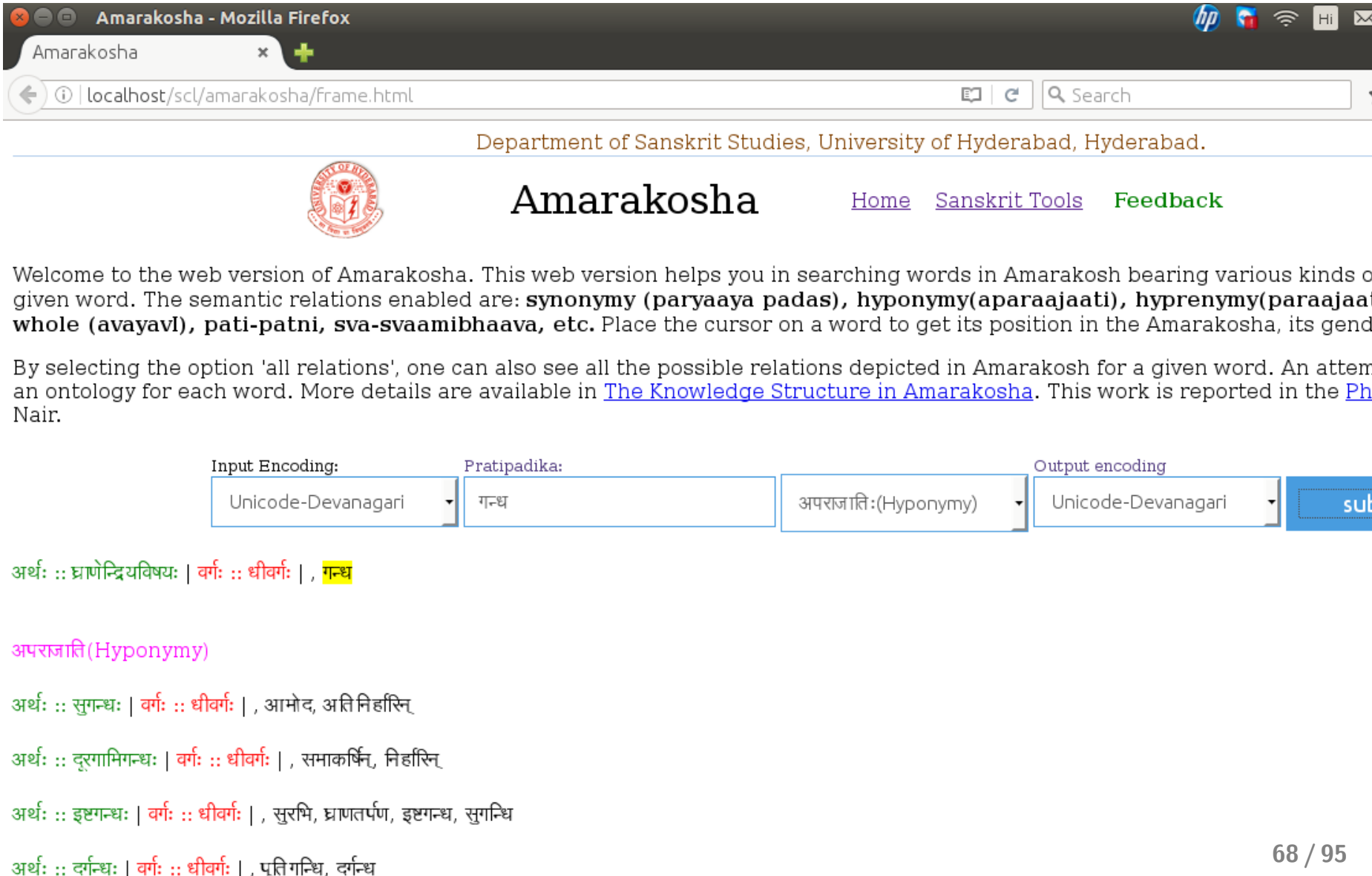
synonyms of husband



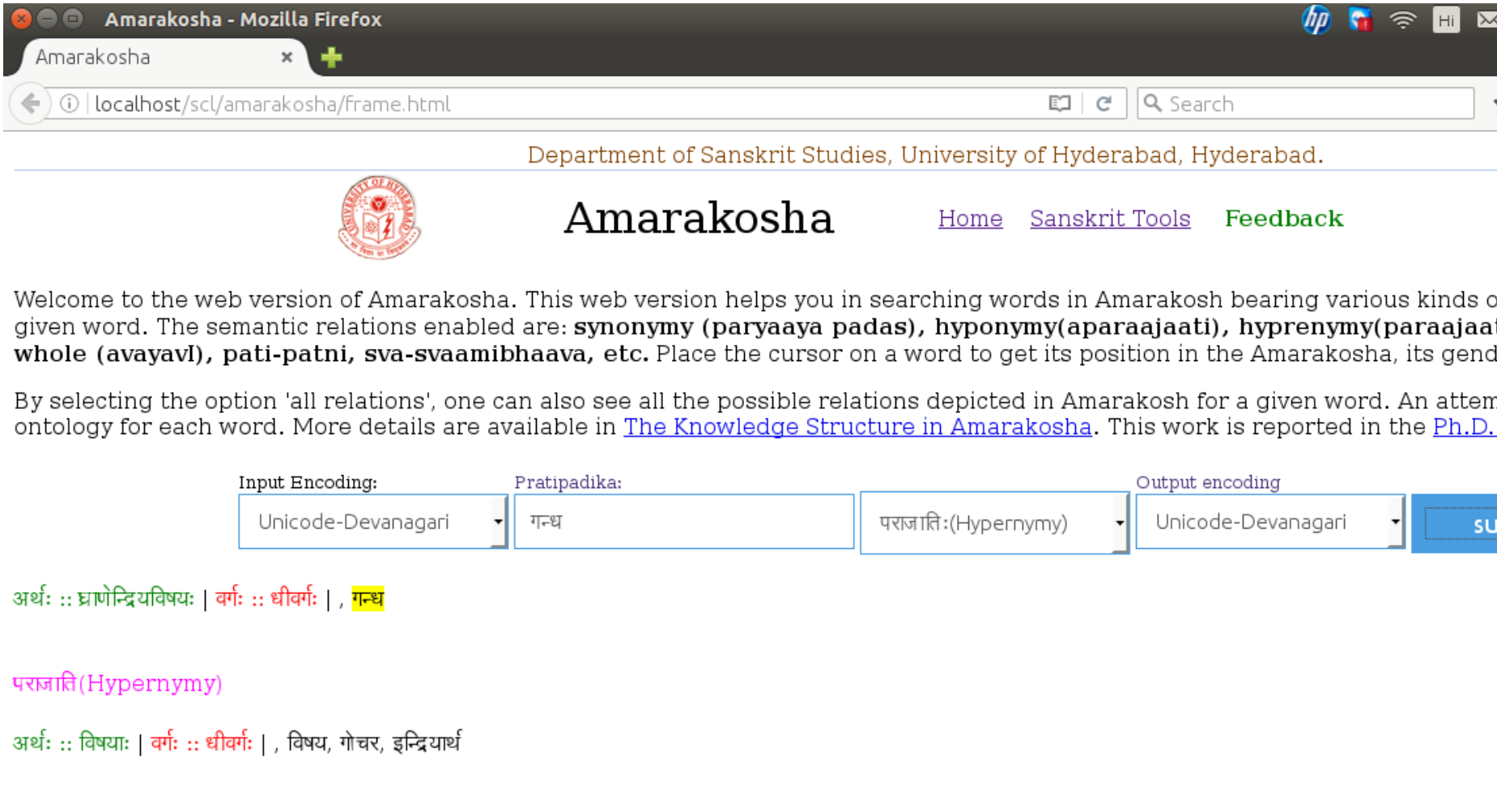
Holistic view of a word:
Example: gandha



aparājāti


Amarakosha - Mozilla Firefox
Amarakosha
localhost/scl/amarakosha/frame.html
Search
Department of Sanskrit Studies, University of Hyderabad, Hyderabad.
Amarakosha
Home
Sanskrit Tools
Feedback
Welcome to the web version of Amarakosha. This web version helps you in searching words in Amarakosh bearing various kinds o
given word. The semantic relations enabled are: synonymy (paryaaya padas), hyponymy(aparaajaati), hyprenymy(paraajaat
whole (avayavI), pati-patni, sva-svaamibhaava, etc. Place the cursor on a word to get its position in the Amarakosha, its gend
By selecting the option 'all relations', one can also see all the possible relations depicted in Amarakosh for a given word. An attem
an ontology for each word. More details are available in The Knowledge Structure in Amarakosha. This work is reported in the Ph
Nair.
Input Encoding:
Unicode-Devanagari
Pratipadika:
गन्ध
अपराजाति:(Hyponymy)
Output encoding
Unicode-Devanagari
sub
अर्थः :: घ्राणेन्द्रियविषयः | वर्गः :: धीवर्गः | , गन्ध
अपराजाति(Hyponymy)
अर्थः :: सुगन्धः | वर्गः :: धीवर्गः | , आमोद, अतिनिहारिन्
अर्थः :: दूरगामिगन्धः | वर्गः :: धीवर्गः | , समाकर्षिन्, निहारिन्
अर्थः :: इष्टगन्धः | वर्गः :: धीवर्गः | , सुरभि, घ्राणतर्पण, इष्टगन्ध, सुगन्धि
अर्थः :: दुर्गन्धः | वर्गः :: धीवर्गः | , पूतिगन्धि, दुर्गन्ध

parājāti


Amarakosha - Mozilla Firefox
Amarakosha
localhost/scl/amarakosha/frame.html
Search
Department of Sanskrit Studies, University of Hyderabad, Hyderabad.
Amarakosha
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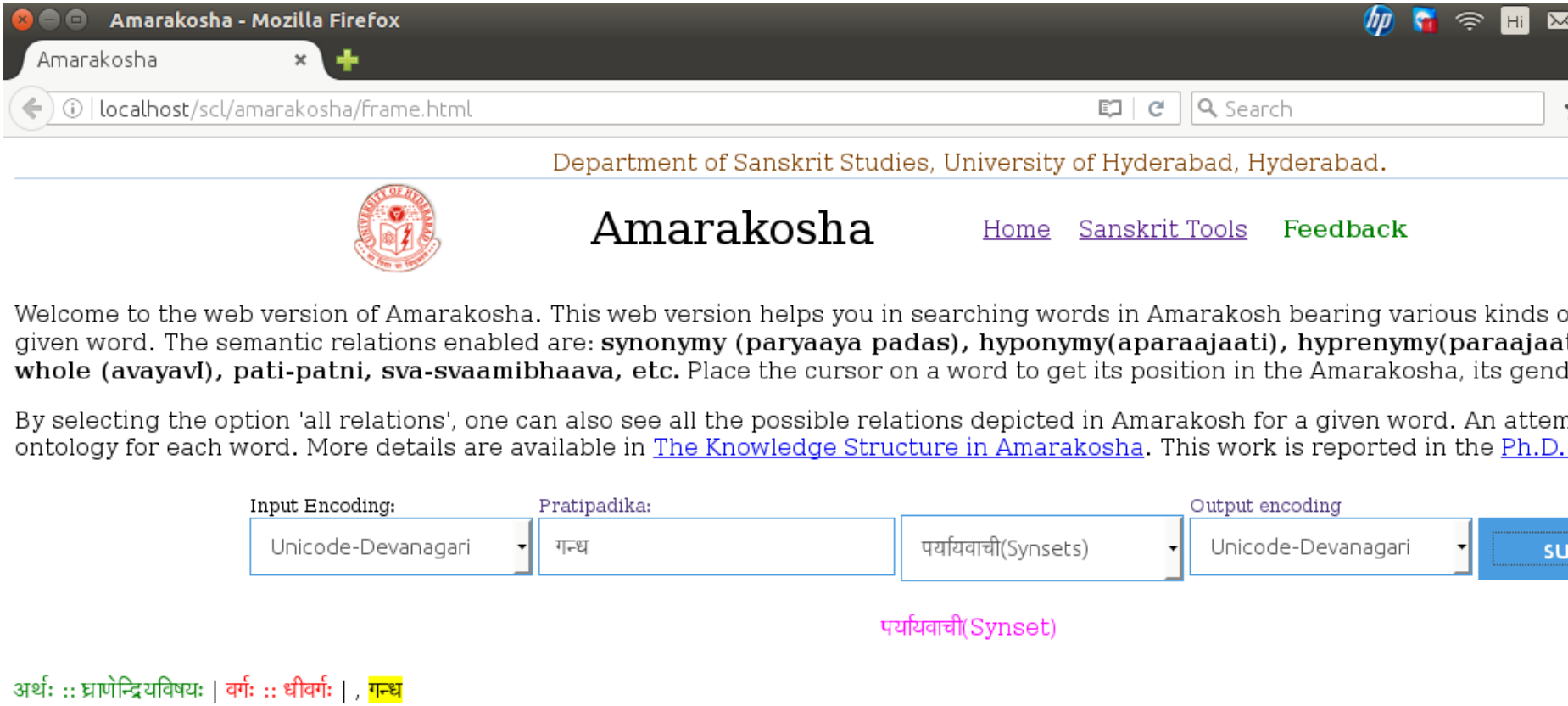
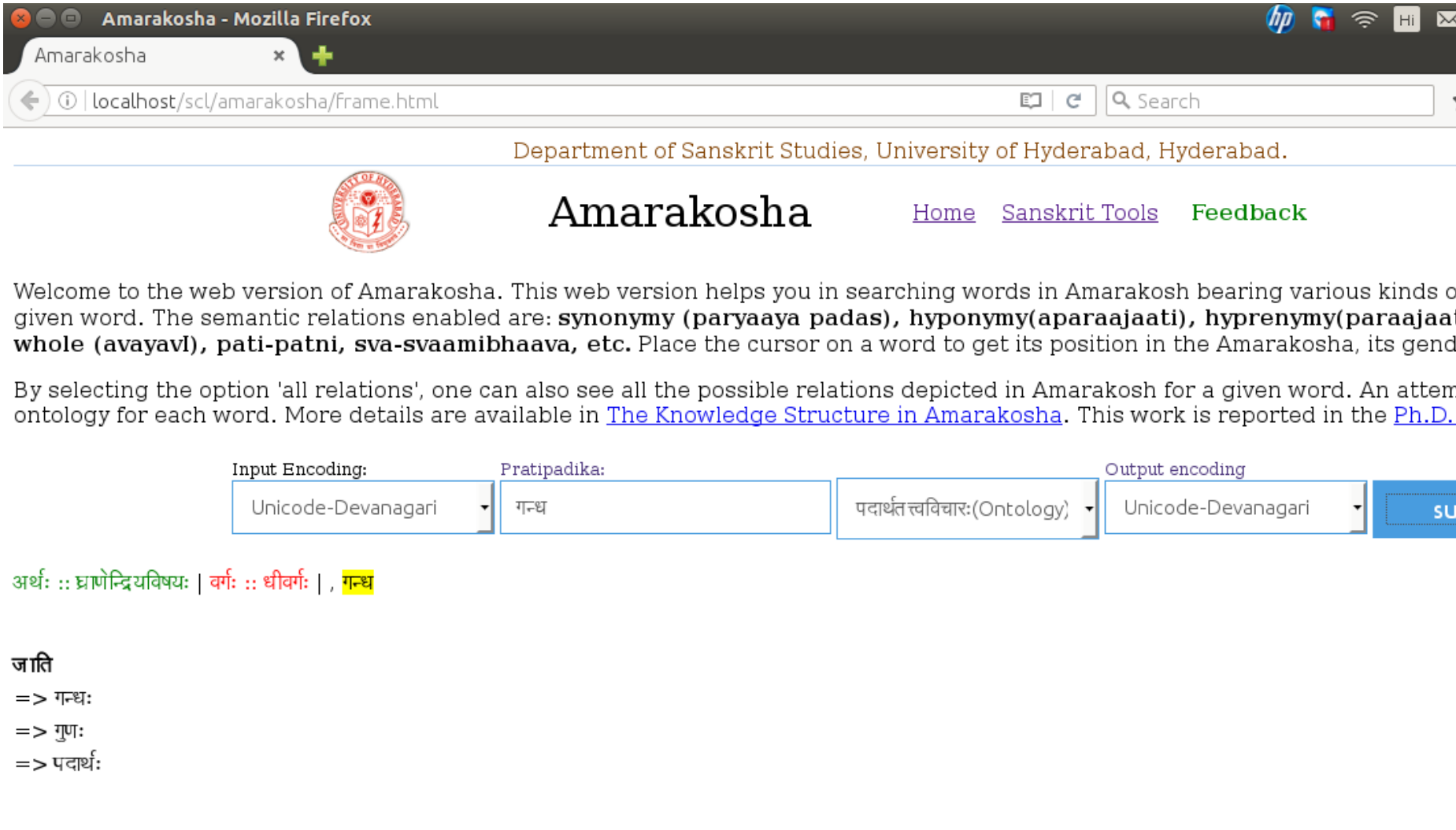
By selecting the option 'all relations', one can also see all the possible relations depicted in Amarakosh for a given word. An attem
ontology for each word. More details are available in The Knowledge Structure in Amarakosha. This work is reported in the Ph.D.
Input Encoding:
Unicode-Devanagari
Pratipadika:
गन्ध
पराजाति:(Hypernymy)
Output encoding
Unicode-Devanagari
अर्थः :: घ्राणेन्द्रियविषयः | वर्गः :: धीवर्गः | , गन्ध
पराजाति(Hypernymy)
अर्थः :: विषयाः | वर्गः :: धीवर्गः | , विषय, गोचर, इन्द्रियार्थ

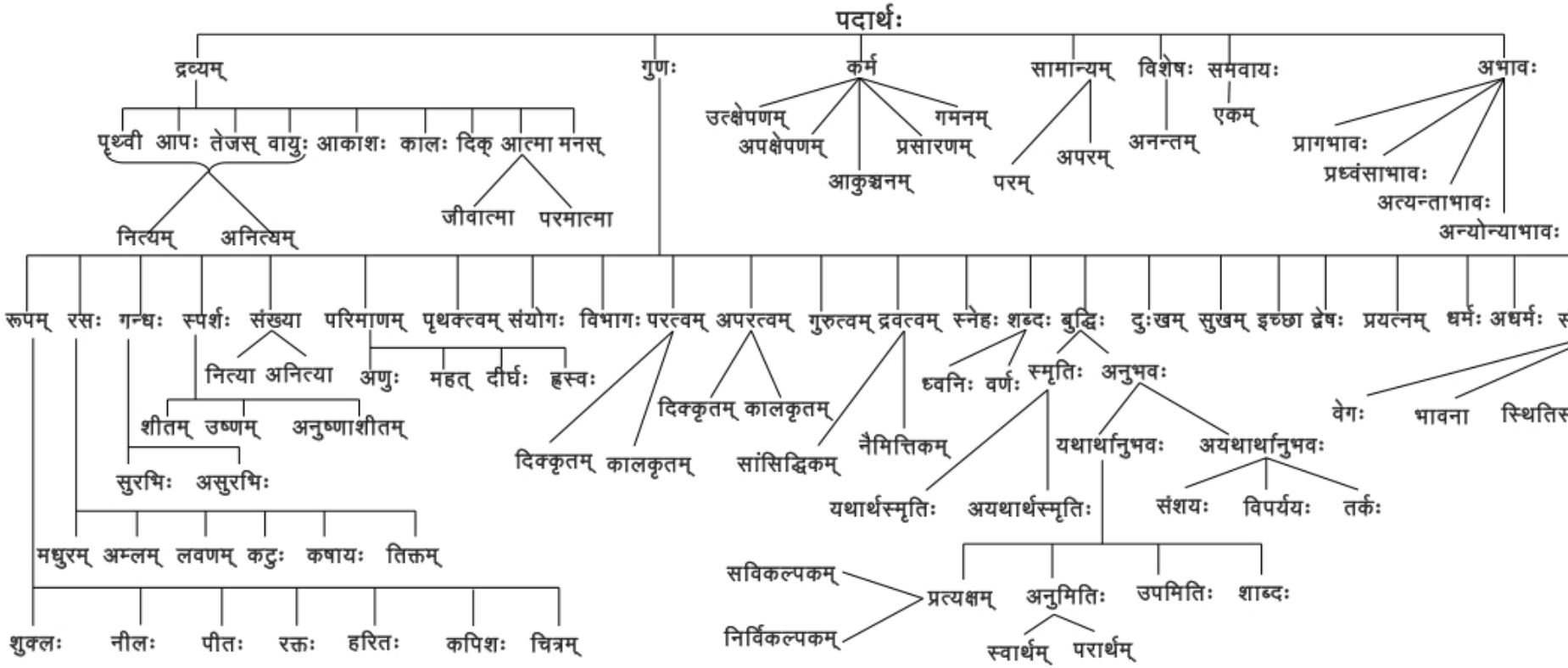
paryāyavācī



padārtha-tattva-vicāraḥ



Extended Vaiśeṣika Ontology used in Amarakośa interface



E-Concordance of Dhātupāṭha

This page provides the comparison of Pāṇinian Dhātuvṛttis. The three vṛttis chosen are

- Mādhavīyā Dhātuvṛtti by Sāyaṇa
- Kṣīrataraṅgiṇī by Kṣīrasvāmin
- Dhātupradīpa by Maitreyarakṣita

Interface

S.No	गणः	धातुः	अर्थः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
1167	भ्वादिः	कथँ(कथ्)	हिंसायाम्	सेट्	प.प	491	X	X
1168	भ्वादिः	क्लथँ (क्लथ्)	हिंसायाम्	सेट्	प.प	491	515	52
1169	भ्वादिः	श्रथँ (श्रथ्)	हिंसायाम्	सेट्	प.प	491	515	52
1170	भ्वादिः	क्रथँ (क्रथ्)	हिंसायाम्	सेट्	प.प	X	515	52
1171	भ्वादिः	श्लथँ (श्लथ्)	हिंसायाम्	सेट्	प.प	X	X	52
1172	भ्वादिः	चनँ(चन्)	हिंसायाम्	सेट्	प.प	492	X	52
1173	भ्वादिः	चनुँ(चन्)	हिंसायाम्	सेट्	प.प	X	516	X
1174	भ्वादिः	वनुँ(वन्)	-	सेट्	प.प	493	517	52
1175	भ्वादिः	ज्वलँ (ज्वल्)	दीप्तौ	सेट्	प.प	494	518	52
1176	भ्वादिः	ह्वलँ (ह्वल्)	चलने	सेट्	प.प	495	519	52
1177	भ्वादिः	ह्वलँ (ह्वल्)	चलने	सेट्	प.प	495	519	52
1178	भ्वादिः	स्मृ(स्मृ)	आध्याने	सेट्	प.प	496	520	52
1179	भ्वादिः	दृ(दृ)	भये	सेट्	प.प	497	521	52
1180	भ्वादिः	नृ(नृ)	नये	सेट्	प.प	498	522	52
1181	भ्वादिः	श्रा (श्रा)	पाके	सेट्	प.प	499	523	52
1182	भ्वादिः	फणँ(फण्)	गतौ	सेट्	प.प	506	524	53

E-Concordance of Dhātupāṭha ...

The user interface displays the roots with various associated information for three vṛttis.
The tables can be sorted in 3 different ways

- according to the order of roots as in the Dhātupāṭha,
- alphabetically in the order of the roots, and
- alphabetically according to the meanings.

Entries sorted according to the meaning

S.No	अर्थः	धातुः	गणः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
2	अग्निसंयोगे	ध्मा (ध्मा)	भ्वादिः	अनिट्	प.प	587	611	62
3	अग्रगमने	पुरँ (पुर्)	तुदादिः	सेट्	प.प	959	981	100
4	अङ्कने	लक्षंँ (लक्ष्)	चुरादिः	सेट्	उ.प	1136	1152	X
5	अङ्कने	लक्षँ (लक्ष्)	चुरादिः	सेट्	प.प	X	X	119
6	अतिक्रमणे	अट्टँ(अट्ट्)	भ्वादिः	सेट्	आ.प	145	153	15
7	अतिसर्जने	दिशंँ (दिश्)	तुदादिः	अनिट्	उ.प	911	932	95
8	अतिस्पर्शने	शुक्लंँ(शुक्ल्)	चुरादिः	सेट्	उ.प	1201	X	X
9	अदने	गलँ (गल्)	भ्वादिः	सेट्	प.प	334	350	35
10	अदने	ग्रसुंँ (ग्रस्)	भ्वादिः	सेट्	आ.प	383	400	40
11	अदने	ग्लसुंँ (ग्लस्)	भ्वादिः	सेट्	आ.प	383	400	40
12	अदने	घसॢँ(घस्)	भ्वादिः	सेट्	प.प	432	451	45
13	अदने	चमुँ(चम्)	भ्वादिः	सेट्	प.प	289	303	30
14	अदने	चर्वँ (चर्व्)	भ्वादिः	सेट्	प.प	350	367	37
15	अदने	छमुँ (छम्)	भ्वादिः	सेट्	प.प	289	303	30
16	अदने	जमुँ (जम्)	भ्वादिः	सेट्	प.प	289	303	30

Sort according to meaning

Entries sorted according to the Pāṇini's dhātupāṭha

S.No	गणः	धातुः	अर्थः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
		Get Dhātupāṭha order	सत्तायाम्	सेट्	प.प	1	1	1
2	भ्वादिः	एधँ (एध्)	वृद्धौ	सेट्	आ.प	2	2	2
3	भ्वादिः	स्पर्धँ (स्पर्ध्)	सङ्घर्षे	सेट्	आ.प	3	3	3
4	भ्वादिः	गाधृ॒ँ(गाध्)	ग्रन्थे	सेट्	आ.प	4	4	4
5	भ्वादिः	गाधृ॒ँ(गाध्)	प्रतिष्ठायाम्	सेट्	आ.प	4	4	4
6	भ्वादिः	गाधृ॒ँ(गाध्)	लिप्सायाम्	सेट्	आ.प	4	4	4
7	भ्वादिः	बाधृ॒ँ (बाध्)	लोडने	सेट्	आ.प	5	X	5
8	भ्वादिः	बाधृ॒ँ (बाध्)	रोटने	सेट्	आ.प	X	5	X
9	भ्वादिः	नाथृ॒ँ(नाथ्)	आशिषि	सेट्	आ.प	6	6	6
10	भ्वादिः	नाथृ॒ँ (नाथ्)	उपतापे	सेट्	आ.प	6	6	6
11	भ्वादिः	नाथृ॒ँ (नाथ्)	ऐश्वर्ये	सेट्	आ.प	6	6	6
12	भ्वादिः	नाथृ॒ँ (नाथ्)	याच्ञायाम्	सेट्	आ.प	6	6	6
13	भ्वादिः	नाधृ॒ँ(नाध्)	आशिषि	सेट्	आ.प	6	6	X
14	भ्वादिः	नाधृ॒ँ(नाध्)	उपतापे	सेट्	आ.प	6	6	X
15	भ्वादिः	नाधृ॒ँ(नाध्)	ऐश्वर्ये	सेट्	आ.प	6	6	X
16	भ्वादिः	नाधृ॒ँ(नाध्)	याच्ञायाम्	सेट्	आ.प	6	6	X

Entries sorted according to dhātu

S.No	धातुः	अर्थः	गणः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
			भ्वादिः	सेट्	आ.प	67	66	68
2	अकँ(अक्)	कुटिलायांगतौ	भ्वादिः	सेट्	प.प	488	512	51
3	अक्षूँ (अक्ष्)	व्याप्तौ	भ्वादिः	सेट्	प.प	399	416	42
4	अक्षूँ (अक्ष्)	सङ्घाते	भ्वादिः	सेट्	प.प	X	416	42
5	अगिँ(अग्)	गतौ	भ्वादिः	सेट्	प.प	84	87	88
6	अगँ(अग्)	कुटिलायांगतौ	भ्वादिः	सेट्	प.प	488	512	51
7	अघि ॒ँ(अघ्)	गत्याक्षेपे	भ्वादिः	सेट्	आ.प	74	74	75
8	अङ्क (अङ्क्)	पदे	चुरादिः	सेट्	उ.प	1429	X	X
9	अङ्क (अङ्क्)	लक्षणे	चुरादिः	सेट्	उ.प	1429	X	X
10	अङ्क (अङ्क्)	लक्षणे	चुरादिः	सेट्	प.प	X	1446	148
11	अङ्ग (अङ्ग्)	पदे	चुरादिः	सेट्	उ.प	1430	X	X
12	अङ्ग (अङ्ग्)	पदे	चुरादिः	सेट्	प.प	X	1447	148
13	अङ्ग (अङ्ग्)	लक्षणे	चुरादिः	सेट्	उ.प	1430	X	X
14	अङ्ग (अङ्ग्)	लक्षणे	चुरादिः	सेट्	प.प	X	1447	148
15	अचिँ (अच्)	गतौ	भ्वादिः	सेट्	उ.प	X	559	X
16	अजिँ (अज्)	भाषार्थे	चुरादिः	सेट्	उ.प	1322	X	X

Sort roots alphabetically

- The reference numbers to the sūtras in the three vṛttis are sensitive to mouse. When a user clicks a sūtra number, the corresponding part of the commentary appears in the pop-up window.

Sample vṛtti from Mādhavīya Dhātuvṛtti

S.No	गणः	धातुः	अर्थः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
16	भ्वादिः	नाधृ॒ँ(नाध)	याच्ञायाम्	सेट्	आ.प	6	6	X
17	भ्वादिः	णाधृ॒ँ(णाध)	आशिषि	सेट्	आ.प	X	X	6
18	भ्वादिः	णाधृ॒ँ(णाध)	उपतापे	सेट्	आ.प	X	X	6
19	भ्वादिः	णाधृ॒ँ(णाध)	ऐश्वर्ये	सेट्	आ.प	X	X	6
20	भ्वादिः	णाधृ॒ँ(णाध)	याच्ञायाम्	सेट्	आ.प	X	X	6
21	भ्वादिः	दधँ(दध)	धारणे	सेट्	आ.प	7	7	7
22	भ्वादिः	स्कुदि॒ँ(स्कुद्)	आप्रवणे	सेट्	आ.प	8	8	8
23	भ्वादिः	श्विदि॒ँ (श्विद्)	श्वैत्ये	सेट्	आ.प	9	9	9
24	भ्वादिः	वदि॒ँ (वद्)	अभिवादने	सेट्	आ.प	10	10	10
25	भ्वादिः	वदि॒ँ (वद्)	स्तुतौ	सेट्	आ.प	X	10	10
26	भ्वादिः	भदि॒ँ(भद्)	कल्याणे	सेट्	आ.प	11	11	11
27	भ्वादिः					11	11	11
28	भ्वादिः					12	X	12
29	भ्वादिः					12	12	12
30	भ्वादिः					12	12	12
31	भ्वादिः					12	12	12

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श्विदि

श्वैत्ये

अकर्मकः श्वेतस्य गुणस्यापि धातुना साध्यतया क्रमिकतया वाभिधानात् क्रियात्वम् यदाह

श्वेततेः श्वेत इत्येतत् श्वेतत्वेन प्रकाश्यते आश्रितक्रमरूपत्वादभिधानं प्रवर्त्तते

Sample vṛtti from Kṣīra-taraṇgiṇī

S.No	गणः	धातुः	अर्थः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
25	भ्वादिः	वदि॒ँ (वद)	स्तुतौ	सेट्	आ.प	X	10	10
26	भ्वादिः						11	11
27	भ्वादिः						11	11
28	भ्वादिः						X	12
29	भ्वादिः						12	12
30	भ्वादिः						12	12
31	भ्वादिः						12	12
32	भ्वादिः						12	12
33	भ्वादिः					12	12	12
34	भ्वादिः	स्पदि॒ँ (स्पद्)	किञ्चिच्चलने	सेट्	आ.प	13	13	13
35	भ्वादिः	क्लिदि॒ँ (क्लिद्)	परिदेवने	सेट्	आ.प	14	14	14
36	भ्वादिः	मुदँ (मुद्)	हर्षे	सेट्	आ.प	14	15	15
37	भ्वादिः	दद॒ँ (दद्)	दाने	सेट्	आ.प	15	16	16
38	भ्वादिः	ष्वद॒ँ(ष्वद्)	आस्वादने	सेट्	आ.प	16	17	17
39	भ्वादिः	स्वर्दँ (स्वर्द्)	आस्वादने	सेट्	आ.प	16	17	17
40	भ्वादिः	उर्दँ(उर्द्)	क्रीडायाम्	सेट्	आ.प	17	18	18

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क्लिदि

परिदेवने

परिदेवनं शोचनम्

क्लिन्दते उदात्तेत्सु पाठात् (धा0सू0158) क्लिन्दति स्वरितेत्सु नोक्तः, कर्त्रभिप्रायेऽपि परस्मैपदार्थः 15

Sample vṛtti from Dhātupradīpa

S.No	गणः	धातुः	अर्थः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्र
60	भ्वादिः	अतँ (अत्)	सातत्यगमने	सेट्	प.प	30	31	32
61	भ्वादिः	चितीँ (चित्)	संज्ञाने	सेट्	प.प	31	32	33
62	भ्वादिः	च्युतिँर् (च्युत्)	आसेचने	सेट्	प.प	32	33	34
63	भ्वादिः	श्च्युतिँर् (श्च्युत्)	क्षरणे	सेट्	प.प	33	34	35
64	भ्वादिः	मन्थँ(मन्थ्)	विलोडने	सेट्	प.प	34	X	36
65	भ्वादिः	कुथिँ(कुथ्)	सङ्क्लेशने	सेट्	प.प	35	35	37
66	भ्वादिः	कुथिँ (कुथ्)	हिंसायाम्	सेट्	प.प	35	35	37
67	भ्वादि						5	37
68	भ्वादि						5	37
69	भ्वादि						X	37
70	भ्वादि						X	37
71	भ्वादि						5	37
72	भ्वादि						5	37
73	भ्वादि						5	X
74	भ्वादि						5	X
75	भ्वादि						6	38

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कुथि

पुथि

लुथि

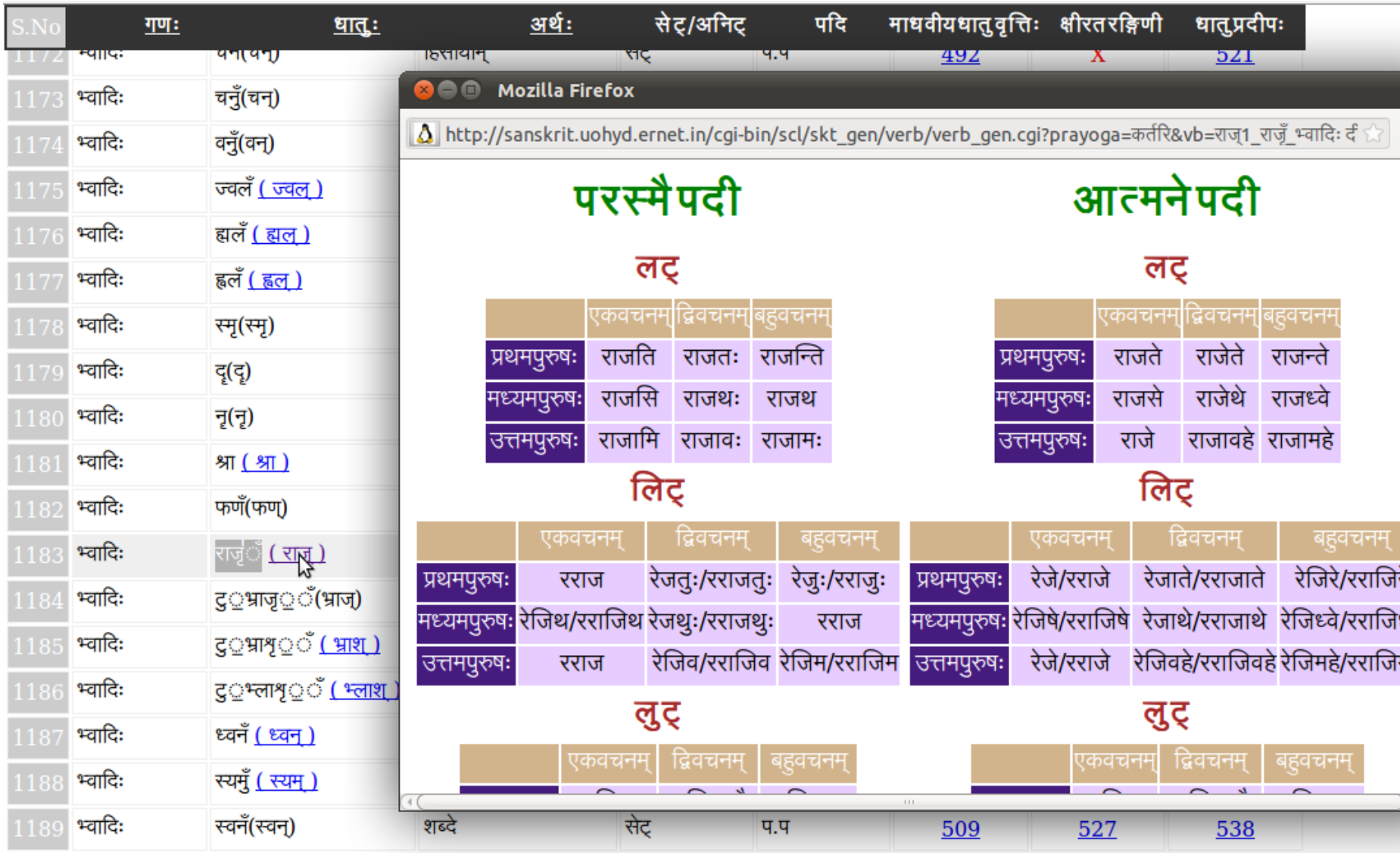
मथि

हिंसा,संक्लेशनयोः

(18)- कुन्थति । कुन्थ्यते । पुन्थति । पुन्थ्यते । लुन्थति । लुन्थ्यते । मन्थति । मन्थ्यते । कुन्थ संक्लेश इति क्र्यादौ-कुथ्नाति । कथ्यते ॥ 42-45 ॥

- The root is also linked with the existing generator. All the roots for which a verb conjugator is available, are mouse clickable. When this link is clicked, user gets the generated forms of the verb.

Link to the dhāturūpa-niṣpādikā



S.No	गणः	धातुः	अर्थः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्रदीपः
1172	भ्वादिः	वन(वन)	हिंसायाम्	सेट्	प.प	492	X	521
1173	भ्वादिः	चनुँ(चन्)						
1174	भ्वादिः	वनुँ(वन्)						
1175	भ्वादिः	ज्वलँ (ज्वल्)						
1176	भ्वादिः	ह्वलँ (ह्वल्)						
1177	भ्वादिः	ह्वलँ (ह्वल्)						
1178	भ्वादिः	स्मृ(स्मृ)						
1179	भ्वादिः	दृ(दृ)						
1180	भ्वादिः	नृ(नृ)						
1181	भ्वादिः	श्रा (श्रा)						
1182	भ्वादिः	फणँ(फण्)						
1183	भ्वादिः	राजृँ (राज्)						
1184	भ्वादिः	टु॒भ्राजृ॒ँ(भ्राज्)						
1185	भ्वादिः	टु॒भ्राशृ॒ँ (भ्राश्)						
1186	भ्वादिः	टु॒भ्लाशृ॒ँ (भ्लाश्)						
1187	भ्वादिः	ध्वनँ (ध्वन्)						
1188	भ्वादिः	स्यमुँ (स्यम्)						
1189	भ्वादिः	स्वनँ(स्वन्)	शब्दे	सेट्	प.प	509	527	538

Mozilla Firefox

http://sanskrit.uohyd.ernet.in/cgi-bin/scl/skt_gen/verb/verb_gen.cgi?prayoga=कर्तरि&vb=राज्1_राजृँ_भ्वादिः र्द

परस्मैपदी

लट्

	एकवचनम्	द्विवचनम्	बहुवचनम्
प्रथमपुरुषः	राजति	राजतः	राजन्ति
मध्यमपुरुषः	राजसि	राजथः	राजथ
उत्तमपुरुषः	राजामि	राजावः	राजामः

लिट्

	एकवचनम्	द्विवचनम्	बहुवचनम्
प्रथमपुरुषः	रराज	रेजतुः/रराजतुः	रेजुः/रराजुः
मध्यमपुरुषः	रेजिथ/रराजिथ	रेजथुः/रराजथुः	रराज
उत्तमपुरुषः	रराज	रेजिव/रराजिव	रेजिम/रराजिम

लुट्

	एकवचनम्	द्विवचनम्	बहुवचनम्

आत्मनेपदी

लट्

	एकवचनम्	द्विवचनम्	बहुवचनम्
प्रथमपुरुषः	राजते	राजेते	राजन्ते
मध्यमपुरुषः	राजसे	राजेथे	राजध्वे
उत्तमपुरुषः	राजे	राजावहे	राजामहे

लिट्

	एकवचनम्	द्विवचनम्	बहुवचनम्
प्रथमपुरुषः	रेजे/रराजे	रेजाते/रराजाते	रेजिरे/रराजि
मध्यमपुरुषः	रेजिषे/रराजिषे	रेजाथे/रराजाथे	रेजिध्वे/रराजि
उत्तमपुरुषः	रेजे/रराजे	रेजिवहे/रराजिवहे	रेजिमहे/रराजि

लुट्

	एकवचनम्	द्विवचनम्	बहुवचनम्

- The meaning is also sensitive to the mouse. When a cursor is brought over the meaning, if any of the vṛttis provide the analysis of the meaning, that is displayed in a tooltip.

S.No	धातुः	अर्थः	गणः	सेट्/अनिट्	पदि	माधवीयधातुवृत्तिः	क्षीरतरङ्गिणी	धातुप्रदीपः
3261	स्रन्सु॒ँ(स्रन्स्)	अवस्रंसने	भ्वादिः	सेट्	आ.प	459	480	487
3262	स्रन्सु॒ँ(स्रन्स्)	प्रमादे	भ्वादिः	सेट्	आ.प	X	X	269
3263	स्रिवुँ (स्रिव्)	गतौ	दिवादिः	सेट्	प.प	757	780	795
3264	स्रिवुँ (स्रिव्)	शोषणे	दिवादिः	सेट्	प.प	757	780	795
3265	स्रु॒ (स्रु)	गतौ	भ्वादिः	अनिट्	प.प	598	625	636
3266	स्रेकृ॒ँ (स्रेक्)	गतौ	भ्वादिः	सेट्	आ.प	65	64	66
3267	स्रै॒(स्रै)	पाके	भ्वादिः	अनिट्	प.प	X	605	617
3268	स्वर्दंँ(स्वर्द्)	आस्वादने	चुरादिः	सेट्	उ.प	1325	X	X
3269	स्वनँ(स्वन्)	शब्दे	भ्वादिः	सेट्	प.प	509	527	538
3270	स्वर (स्वर)	आक्षेपे	चुरादिः	सेट्	उ.प	1375	X	X
3271	स्वर (स्वर)	आक्षेपे	चुरादिः	सेट्	प.प	X	1392	1429
3272	स्वर्तंँ(स्वर्त्)	कृच्छ्रजीवने	चुरादिः	सेट्	उ.प	X	1221	X
3273	स्वर्तंँ(स्वर्त्)	गत्याम्	चुरादिः	सेट्	उ.प	X	1221	X
3274	स्वर्दँ (स्वर्द्)	आस्वादने	भ्वादिः	सेट्	आ.प	16	17	17
3275	स्वादँ (स्वाद्		दिः	सेट्	आ.प	22	23	23
3276	स्वृ॒(स्वृ)		दिः	अनिट्	प.प	592	616	629
3277	स्वृ॒(स्वृ)	शब्दे	भ्वादिः	अनिट्	प.प	592	616	629
3278	स्वृ(स्वृ)	हिंसायाम्	क्र्यादिः	सेट्	प.प	X	X	1142

माधवीयधातुवृत्तिः-आस्वादनमनुभवः
क्षीरतरङ्गिणी-आस्वादनं जिह्वाया लेहः

Contributors: Individuals and Institutions

This platform is being developed since 2002
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2002-2006 : IIIT Hyderabad, and Satyam Computer services Ltd.
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Contributors: Individuals and Institutions ...

Several students and project fellows from University of Hyderabad have contributed to the development of various tools. They are

Anilkumar Gupta	Rāmāyaṇa Reader; Verb and Derivational Morphology; and Compound Analyser
Anupama Ryali	Śiśupālavadha Reader
Arjuna S.R.	Nyaayacitradipika
Gauri	Skt-Hnd MT; Search Engine
Karunakar	Search Engine; Android porting
Kiranmayi	Skt-Hnd MT
Krishna Mohan	Corpus Maintenance
Mohan Adapa	Anusāraka interface
Pankaj Vyas	Sandhi joiner
Pavankumar Satuluri	Parser; Compound Generator
Pawan Goyal	Ashtadhyayi Simulator
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Sheeba V.	Noun Morphology

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Sheetal Pokar	Parser
Devanand Shukl	Morph Analyser; Ashtadhyayi Simulator
Preeti Shukla	SrimadBhagvadGītā Reader
Sivaja S. Nair	Sandhi joiner and Amarakosha
Sushama Vempati	Sandhi joiner

Sanskrit Computational Linguistics Symposium

- First International Sanskrit Computational Linguistics Symposium was hosted by Gérard Huet at INRIA Paris-Rocquencourt from 29 - 31 October 2007, and led to the formation of the International Sanskrit Computational Linguistics Consortium.
- Peter Scharf, Director of the International Digital Sanskrit Library Integration project (IDSLI) at Brown University, hosted the Second International Sanskrit Computational Linguistics Symposium and Sanskrit Library Workshop at Brown University in Providence, RI, USA from 15 - 17 May 2008.
- The Third International Sanskrit Computational Linguistics Symposium was hosted by Amba Kulkarni from 15 - 17 January, 2009, at the University of Hyderabad.

- The Fourth International Sanskrit Computational Linguistics Symposium was held from 10th to 12th December, 2010 at Jawaharlal Nehru University, New Delhi.
- The Fifth International Sanskrit Computational Linguistics Symposium was hosted by Malhar Kulkarni from 4th to 6th January, 2013 at Indian Institute of Technology, Bombay, Powai, Mumbai.

The proceedings of these symposia are published by Springer Verlag and D K Publishers.

Related Conferences and Seminars

- Peter Scharf and Gérard Huet hosted a seminar on Sanskrit syntax and discourse structures in Paris, June 13-15, 2013 and a workshop on computational Sanskrit syntax, 17-21 June 2013
  The proceedings of the seminar are published in a book 'Sanskrit Syntax' edited by Peter Scharf
- 16th World Sanskrit Conference at Bangkok had a session on 'Sanskrit and Computational Linguistics', whose convenors were Amba Kulkarni and Vineet Chaitanya
  The proceedings of this session are published under the title 'Sanskreit and Computational Llinguistics' ed by Amba Kulkarni, published by D K Publisher.

Collaborations

Amba Kulkarni is working with Gérard Huet, INRIA, France on the issues of interoperability of Sanskrit computational tools linking her parser with the Heritage segmenter.

Important URLs

The SCL platform is available as a web service from the following URLS:

- http://sanskrit.uohyd.ac.in/scl (Main server)
- http://scl.samsaadhanii.in (Mirror)
- http://tdil-dc.in/san (2013 version)

Publications by Amba Kulkarni are available at http://sanskrit.uohyd.ac.in/faculty/amba