WIKIMEDIA FOUNDATION

Code the Next Wave

Building Wikifunctions with WikiLambda's Power

James Forrester, Abstract Wikipedia team

Wikimedia Tech Safari Program, 2024

Agenda

- Wiki work, unshared
- Wikifunctions
- Functions for language, not just data
- Early use of Wikifunctions
- The Abstract Wikipedia vision

WIKIMEDIA
FOUNDATION

WIKIMEDIA FOUNDATION

01 Wiki work, unshared

Wikipedias have the same work

- Creating and updating articles
- Patrolling changes and managing the flow
- Welcoming newbies and building a community
- Re-working content to be consistent and high-quality
- Curating the content for readers
- Agreeing ways forward as a community

Wikipedias don't have the same size

	English Wikipedia	Malay Wikipedia	Hausa Wikipedia
Monthly contributors	**125,000**	**680**	**60**
Module: pages	19,000	1,000	500
Speakers	1.5 billion	300 million	70 million
Unique devices	900 million	6 million	200,000

Malay Wikipedia's Modul:

- Modul:APC submission catcheck
- Modul:Adjacent stations
- Modul:Adjacent stations/Amtrak
- Modul:Adjacent stations/BJS
- Modul:Adjacent stations/ERL
- Modul:Adjacent stations/JR East
- Modul:Adjacent stations/Jabatan Kereta Api Negeri Sabah
- Modul:Adjacent stations/KLRT
- Modul:Adjacent stations/KTM
- Modul:Adjacent stations/KTM Antarabandar
- Modul:Adjacent stations/KTM ETS
- Modul:Adjacent stations/KTM Komuter
- Modul:Adjacent stations/Kereta Api Bawah Tanah Beijing
- Modul:Adjacent stations/LIRR
- Modul:Adjacent stations/Long Island Rail Road
- Modul:Adjacent stations/Los Angeles Metro Rail
- Modul:Adjacent stations/NJ Transit
- Modul:Adjacent stations/Paris Métro
- Modul:Adjacent stations/RTD
- Modul:Adjacent stations/Rapid KL
- Modul:Adjacent stations/SEPTA
- Modul:Adjacent stations/SHM
- Modul:Adjacent stations/SMRT
- Modul:Adjacent stations/San Diego Trolley
- Modul:Citation/CS1/Whitelist
- Modul:Citation/CS1/Whitelist/doc
- Modul:Citation/CS1/Whitelist/kotak pasir
- Modul:Citation/CS1/Whitelist/sandbox
- Modul:Citation/CS1/autofix
- Modul:Citation/CS1/doc
- Modul:Citation/CS1/kotak pasir
- Modul:Citation/CS1/kotak pasir/styles.css
- Modul:Citation/CS1/styles.css
- Modul:Cite LSA
- Modul:Cite Q
- Modul:Cite iucn
- Modul:Cite tweet
- Modul:Cite web
- Modul:Clade
- Modul:Clade/example
- Modul:Clade/example/doc
- Modul:Clade/gallery
- Modul:Clade/labels
- Modul:CladeN
- Modul:Clickable button 2
- Modul:Collapsible list
- Modul:College color
- Modul:College color/contrast
- Modul:College color/data
- Modul:Color contrast
- Modul:Find country
- Modul:Find sources
- Modul:Find sources/autodoc
- Modul:Find sources/autodoc/config
- Modul:Find sources/config
- Modul:Find sources/links/free news sources
- Modul:Find sources/links/google
- Modul:Find sources/links/google books
- Modul:Find sources/links/google free images
- Modul:Find sources/links/google news
- Modul:Find sources/links/google newspapers
- Modul:Find sources/links/google scholar
- Modul:Find sources/links/highbeam
- Modul:Find sources/links/jstor
- Modul:Find sources/links/new york times
- Modul:Find sources/links/wikipedia library
- Modul:Find sources/links/wikipedia reference search
- Modul:Find sources/templates
- Modul:Find sources/templates/Find sources
- Modul:Find sources/templates/Find sources mainspace
- Modul:FishRef
- Modul:Flag
- Modul:Flagg
- Modul:Flagg/Altyar data

https://ms.wikipedia.org/wiki/Special:AllPages/Module

Malay Wikipedia's Modul:Age

Modul:Age

84 bahasa

Modul | Perbincangan | Baca | Sunting sumber | Lihat sejarah

Daripada Wikipedia, ensiklopedia bebas.

Pendokumenan untuk modul ini boleh diciptakan di Modul:Age/doc

```
1  -- Implement various "age of" and other date-related templates.
2
3  local mtext = {
4      -- Message and other text that should be localized.
5      -- Also need to localize text in table names in function dateDifference.
6      ['mt-bad-param1'] =             'Invalid parameter $1',
7      ['mt-bad-param2'] =             'Parameter $1=$2 is invalid',
8      ['mt-bad-show'] =               'Parameter show=$1 is not supported here',
9      ['mt-cannot-add'] =             'Cannot add "$1"',
10     ['mt-conflicting-show'] =       'Parameter show=$1 conflicts with round=$2',
11     ['mt-date-wrong-order'] =       'The second date must be later in time than the first date',
12     ['mt-dd-future'] =              'Death date (first date) must not be in the future',
13     ['mt-dd-wrong-order'] =         'Death date (first date) must be later in time than the birth date
   (second date)',
14     ['mt-invalid-bd-age'] =         'Invalid birth date for calculating age',
15     ['mt-invalid-dates-age'] =      'Invalid dates for calculating age',
16     ['mt-invalid-end'] =            'Invalid end date in second parameter',
17     ['mt-invalid-start'] =          'Invalid start date in first parameter',
18     ['mt-need-jdn'] =               'Need valid Julian date number',
19     ['mt-need-valid-bd'] =          'Need valid birth date: year, month, day',
20     ['mt-need-valid-bd2'] =         'Need valid birth date (second date): year, month, day',
21     ['mt-need-valid-date'] =        'Need valid date',
```

https://ms.wikipedia.org/wiki/Modul:Age

Malay Wikipedia's Modul:Age

Modul:Age: Sejarah semakan

Modul Perbincangan Baca Sunting sumber

Lihat log bagi laman ini (lihat log salah guna)

Tapis semakan

Pemilihan perbezaan: tandakan butang radio bagi versi-versi yang ingin dibandingkan dan tekan butang *enter* atau butang di bawah.

Petunjuk: **(kini)** = perbezaan dengan versi terkini, **(akhir)** = perbezaan dengan versi sebelumnya, **k** = suntingan kecil.

Bandingkan versi-versi yang dipilih **Sunting teg-teg s**

Pilih: Semua, Tiada, Songsang

- (kini | akhir) 12:03, 14 Disember 2022 Hayate891 (bincang | sumb.) . . (33,355 bait) **(+1,212)** . . *(Kemaskini)* (batalkan | hargai) *(Te*
  mudah alih, Suntingan web mudah alih, Advanced mobile edit)
- (kini | akhir) 01:09, 20 April 2020 SNN95 (bincang | sumb.) **k** . . (32,143 bait) (0) . . *(kemaskini)* (batalkan | hargai)
- (kini | akhir) 15:30, 14 April 2020 SNN95 (bincang | sumb.) . . (32,143 bait) **(+12,552)** . . *(kemaskini)* (batalkan | hargai)
- (kini | akhir) Modul:Age n 2017 SNN95 (bincang | sumb.) . . (19,591 bait) (+5) . . (batalkan | hargai)
- (kini | akhir) 15:35, 27 April 2017 Polar (bincang | sumb.) . . (19,586 bait) **(+19,586)** . . *(Mencipta laman baru dengan kandungan '*
  various "age of" and other date-related templates. local _Date, _current_date local function get_exports(frame) -- Return objects exported fr...

Bandingkan versi-versi yang dipilih **Sunting teg-teg s**

Pilih: Semua, Tiada, Songsang

https://ms.wikipedia.org/wiki/Modul:Age?action=history

Malay Wikipedia's Modul:Age

Semakan pada 15:35, 27 April 2017 (sunting)
Polar (bincang | sumb.)
'Mencipta laman baru dengan kandungan '-- Implement various "age of" and other date-related templates. local _Date, _current_date local function get_exports(frame) -- Return objects exported fr...')

Semakan pada 15:02, 20 Jun 2017 (sunting) (batalkan) (hargai)
SNN95 (bincang | sumb.)
Suntingan berikutnya →

aris 288:

```
    local names = {
        abbr_off = {
            plural = 's',
            sep = ' ',
            y = 'year',
            m = 'month',
            w = 'week',
            d = 'day',
            H = 'hour',
            M = 'minute',
            S = 'second',
        },
```

Baris 288:

```
    local names = {
        abbr_off = {
+           plural = '',
            sep = ' ',
+           y = 'tahun',
+           m = 'bulan',
+           w = 'minggu',
+           d = 'hari',
+           H = 'jam',
+           M = 'minit',
+           S = 'saat',
        },
```

https://ms.wikipedia.org/w/index.php?title=Modul:Age&diff=prev&oldid=4036942

English Wikipedia's Module:Age

Module:Age

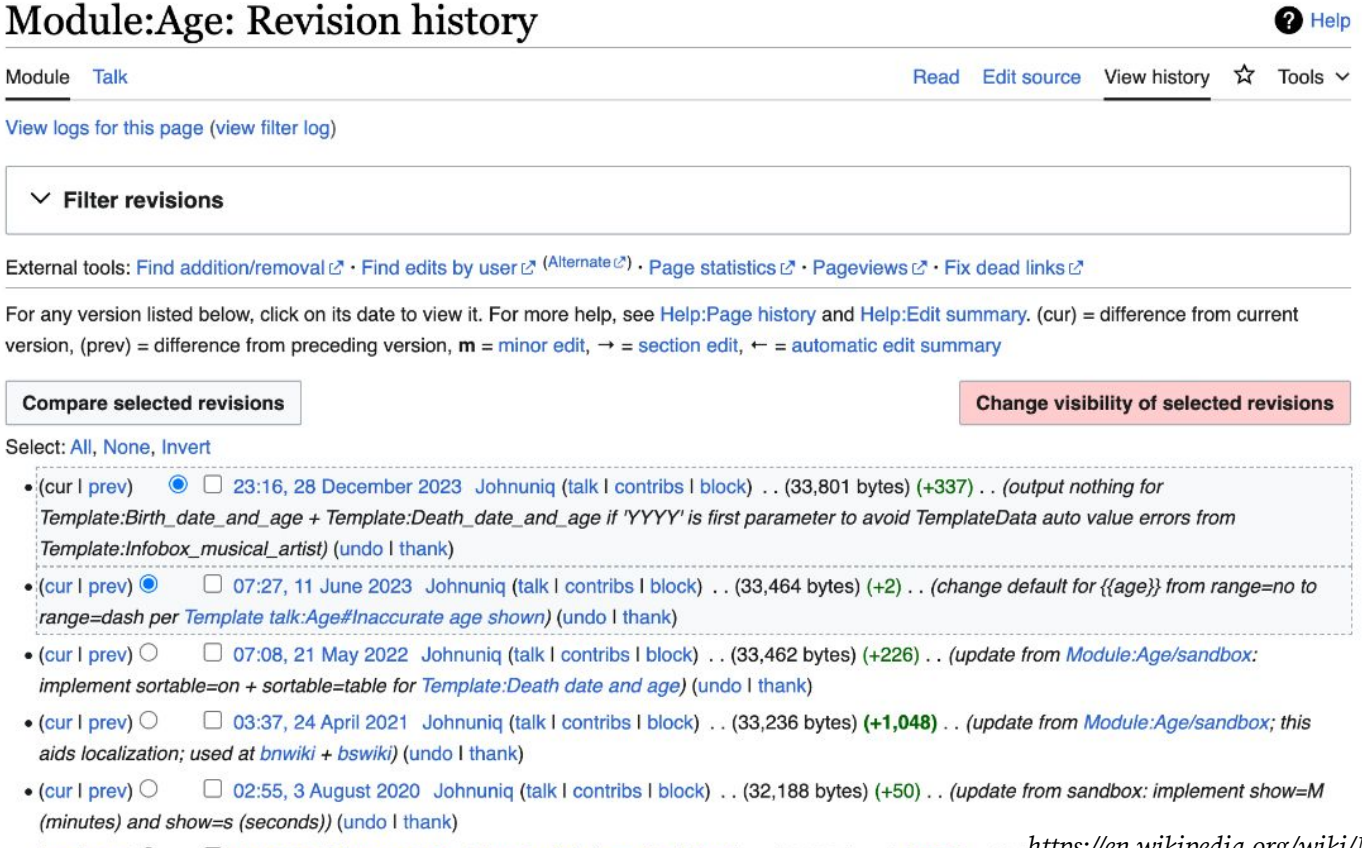
Parameters

The following options are available:

Parameter	Description
`duration=on`	The finishing date is included in the result; that adds one day to the age.
`fix=on`	Adjust invalid time units. See Template:Extract#Fix.
`format=commas`	A value of 1,000 or more is displayed with commas.
`format=raw`	Numbers are displayed without commas and negative numbers are displayed with a hyphen for `{{#expr}}`. In addition, {{age}} outputs a plain number and will not include a span to indicate if the result relies on the current date.
`format=cardinal`	Display the resulting number using words such as "five" instead of 5. See below.
`format=ordinal`	Display the resulting number using words such as "fifth" instead of 5. See below.
`prefix=text`	Insert the given *text* before the result but after any sort key. For example, `{{age|23 July 1910|14 July`

https://en.wikipedia.org/wiki/Module:Age

English Wikipedia's Module:Age



Module:Age: Revision history

Help

Module | Talk | Read | Edit source | View history | Tools

View logs for this page (view filter log)

Filter revisions

External tools: Find addition/removal · Find edits by user (Alternate) · Page statistics · Pageviews · Fix dead links

For any version listed below, click on its date to view it. For more help, see Help:Page history and Help:Edit summary. (cur) = difference from current version, (prev) = difference from preceding version, **m** = minor edit, → = section edit, ← = automatic edit summary

Compare selected revisions | Change visibility of selected revisions

Select: All, None, Invert

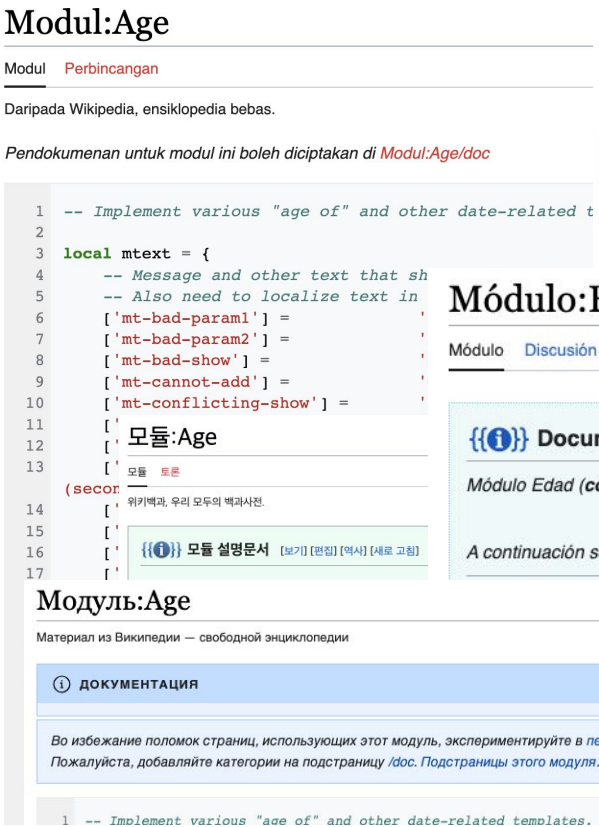
- (cur | prev) 23:16, 28 December 2023 Johnuniq (talk | contribs | block) . . (33,801 bytes) (+337) . . *(output nothing for Template:Birth_date_and_age + Template:Death_date_and_age if 'YYYY' is first parameter to avoid TemplateData auto value errors from Template:Infobox_musical_artist)* (undo | thank)
- (cur | prev) 07:27, 11 June 2023 Johnuniq (talk | contribs | block) . . (33,464 bytes) (+2) . . *(change default for {{age}} from range=no to range=dash per Template talk:Age#Inaccurate age shown)* (undo | thank)
- (cur | prev) 07:08, 21 May 2022 Johnuniq (talk | contribs | block) . . (33,462 bytes) (+226) . . *(update from Module:Age/sandbox: implement sortable=on + sortable=table for Template:Death date and age)* (undo | thank)
- (cur | prev) 03:37, 24 April 2021 Johnuniq (talk | contribs | block) . . (33,236 bytes) **(+1,048)** . . *(update from Module:Age/sandbox; this aids localization; used at bnwiki + bswiki)* (undo | thank)
- (cur | prev) 02:55, 3 August 2020 Johnuniq (talk | contribs | block) . . (32,188 bytes) (+50) . . *(update from sandbox: implement show=M (minutes) and show=s (seconds))* (undo | thank)

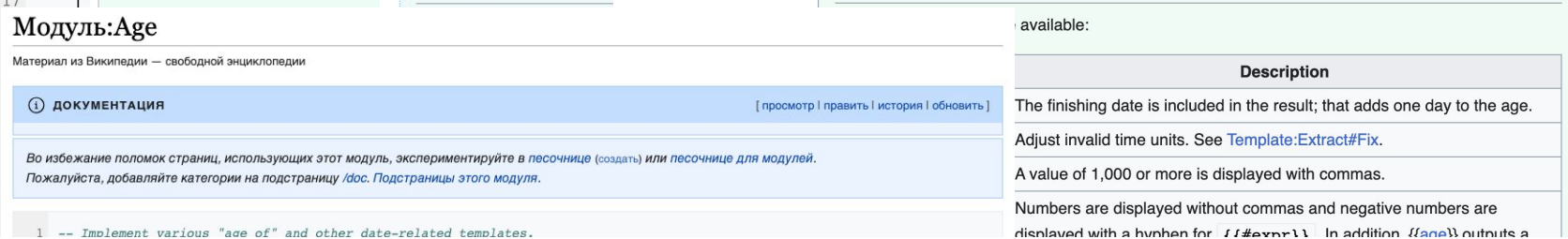
https://en.wikipedia.org/wiki/Module:Age?action=history

Module:Age

https://en.wikipedia.org/wiki/Module:Age

Module:Age





https://en.wikipedia.org/wiki/Module:Age and others linked from https://www.wikidata.org/wiki/Q12085840

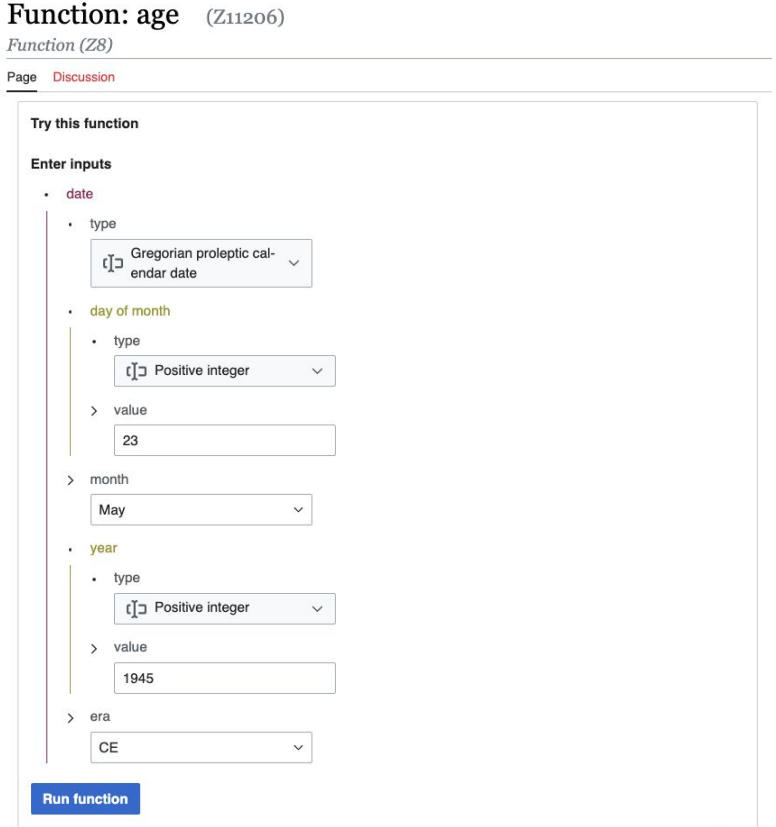
WIKIFUNCTIONS

https://commons.wikimedia.org/wiki/File:Wikifunctions-logo-en.svg; CC-BY-SA 4.0

WIKIMEDIA FOUNDATION

02 Wikifunctions

An "age" function



https://wikifunctions.beta.wmflabs.org/wiki/Z11206

Wikifunctions is here

Welcome to Wikifunctions

Wikifunctions is a free library of functions that anyone can edit.

Welcome!

Wikifunctions is a Wikimedia project for everyone to collaboratively create and maintain a library of code functions to support the Wikimedia projects and beyond, in the world's natural and programming languages.

A "function" is a sequence of programming instructions that makes a calculation based on data you provide. Functions can answer questions, such as how many days have passed between two dates, or the distance between two cities.

Get started

Wikifunctions in 7 minutes

• Run a Function • Project chat • Community portal • Suggest a function • Catalogue of available functions

Functions to try out

- reverse string (Z10012): Inverts the order of the characters in a String (see Z10548 for one with Unicode grapheme support) • is palindrome (Z10096): test if a string is the same when read forward and backward (see Z10553 for one with Unicode grapheme support)
- substring exists (Z10070): Check if a substring exists within another string • To Uppercase (Z10018): Convert a string to uppercase letters • To Lowercase (Z10047): Convert a string to lowercase letters
- join strings (Z10000): combine two strings, one after the other • Trim String (Z10079): Remove starting and ending whitespaces • is empty string (Z10008): true if the input string is empty

https://www.wikifunctions.org/wiki/Wikifunctions:Main_Page

A "not" function

Function: not (Z10216)

Function (Z8)

Page Discussion Read View history Tools

About **Details**

takes a truth value and returns its opposite

Name

Show name in other languages

Aliases

EN negate

EN negation

EN !

Try this function

Enter inputs

value to be negated

true false

Run function

https://www.wikifunctions.org/view/en/Z10216

… that anyone can run

https://www.wikifunctions.org/view/en/Z10216

… controlled by the community

Function: not (Z10216)

Function (Z8)

Page Discussion — Read View history Tools

About **Details**

Anyone can propose a new implementation or test. Proposed code is reviewed by the Wikifunctions community before it becomes an available implementation or verified test. Learn more about the review process.

Function definition Edit

Input	Boolean
Label	value to be negated
Output	Boolean

Show more languages

Add implementation

Add test

Implementations — Connect | Disconnect

Name	Status	Language	Passed tests
JavaScript negation	Connected	javascript	-
negation as a composition	Connected	Composition	-
Python negation	Connected	python	-
negation in JavaScript function syntax	Connected	javascript	-

Tests — Connect | Disconnect

Name	Status	JavaScript negation	negation as a composition	Python negation	negation in JavaScript function syntax
false negated is true	Connected	✓ Passed	✓ Passed	✓ Passed	✓ Passed
true negated is false	Connected	✓ Passed	✓ Passed	✓ Passed	✓ Passed

https://www.wikifunctions.org/view/en/Z10216

… implemented in JavaScript

Implementation: negation in JavaScript function syntax (Z10586)

Implementation (Z14)

Help

Page Discussion Read View history Tools

About

labels
negation in JavaScript function syntax

2 languages

Function explorer

Name Z10216
not

Inputs
Boolean Z10216K1
value to be negated

Output
Boolean

Contents

function
not

Implementation
code

language
javascript

code

```
1 function Z10216( Z10216K1 ) {
2     return !Z10216K1;
3 }
```

Tests

true negated is false
Passed Details

false negated is true
Passed Details

Try this implementation

Enter inputs

value to be negated •••
true false

Run function

https://www.wikifunctions.org/view/en/Z10586

… or in Python

Implementation: Python negation (Z10538)

Implementation (Z14)

Help

Page Discussion Read View history Tools

About

labels
Python negation

4 languages

Function explorer

Name Z10216
not

Inputs
Boolean Z10216K1
value to be negated

Output
Boolean

Contents

function
not

Implementation
code

language
python

code

```
1 def Z10216(Z10216K1):
2     return not Z10216K1
```

Tests

true negated is false
Passed Details

false negated is true
Passed Details

Try this implementation

Enter inputs

value to be negated
true false

Run function

https://www.wikifunctions.org/view/en/Z10538

… or in a composition

Implementation: negation as a composition (Z10537)

Implementation (Z14)

Help

Page Discussion Read View history Tools

About

labels
negation as a composition

3 languages

Function explorer

Name
not

Inputs
Boolean
value to be negated

Output
Boolean

Contents

function
not

Implementation
composition

composition
If (Argument reference (value to be negated), Boolean (false), Boolean (true))

Tests

true negated is false
Passed Details

false negated is true
Passed Details

Try this implementation

Enter inputs
value to be negated
true false

Run function

https://www.wikifunctions.org/view/en/Z10537

… or in a composition in Polish

https://www.wikifunctions.org/view/pl/Z10537

Status of Wikifunctions @ Feb 2024

Working

- You can create functions, implementations, & test cases
- You can use booleans, strings, and lists; more coming soon

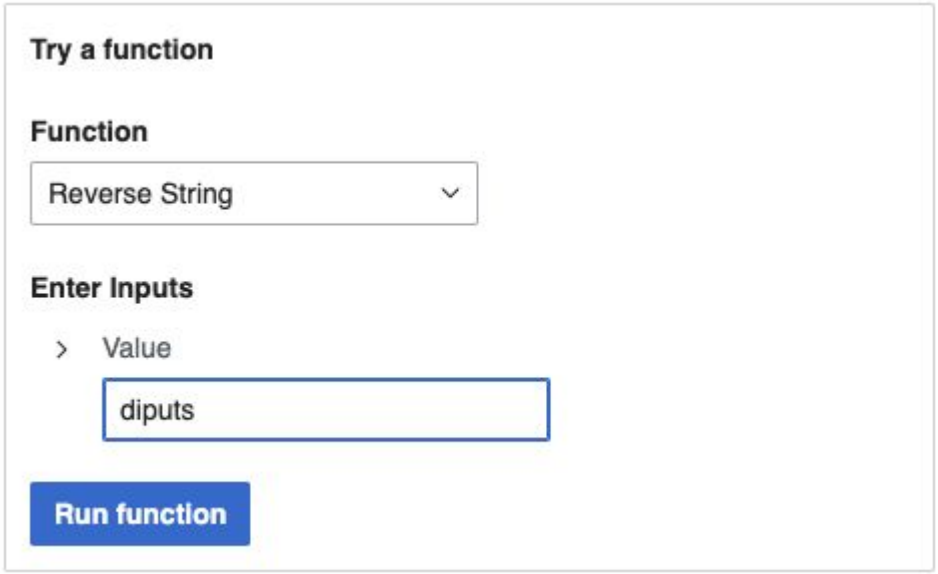
Coming later

- Calling functions embedded within Wikipedia articles *etc.*
- Calling functions from tools, gadgets, and 3rd party apps
- Using Wikidata items and Lexemes

WIKIMEDIA FOUNDATION

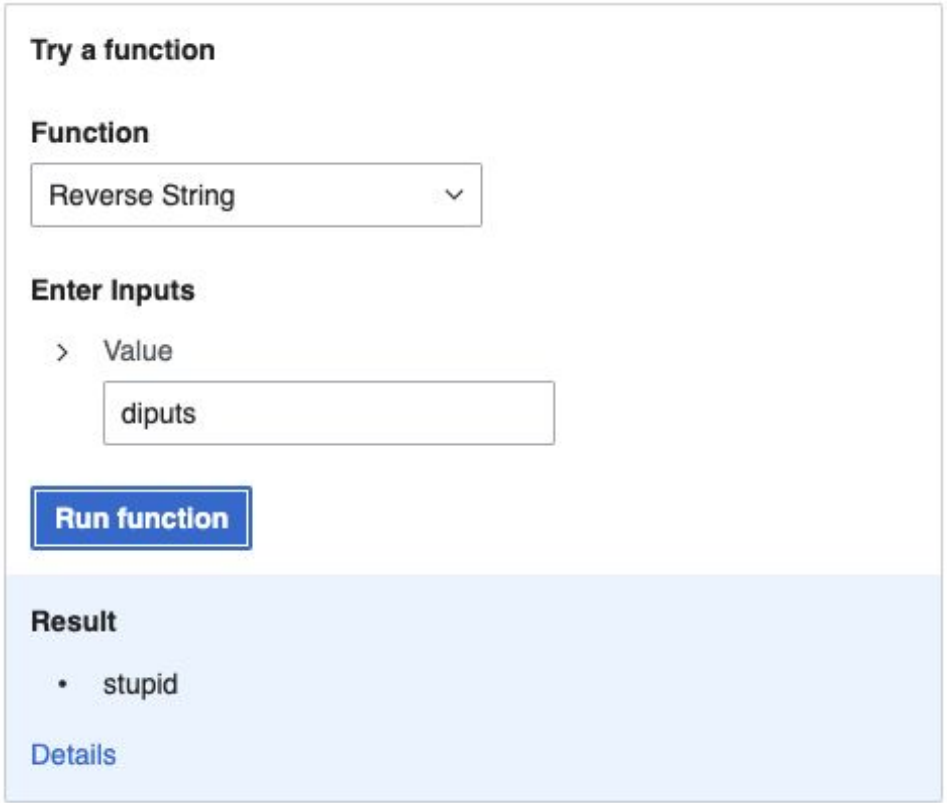
03 Functions for language, not just data

Functions on strings: toy examples



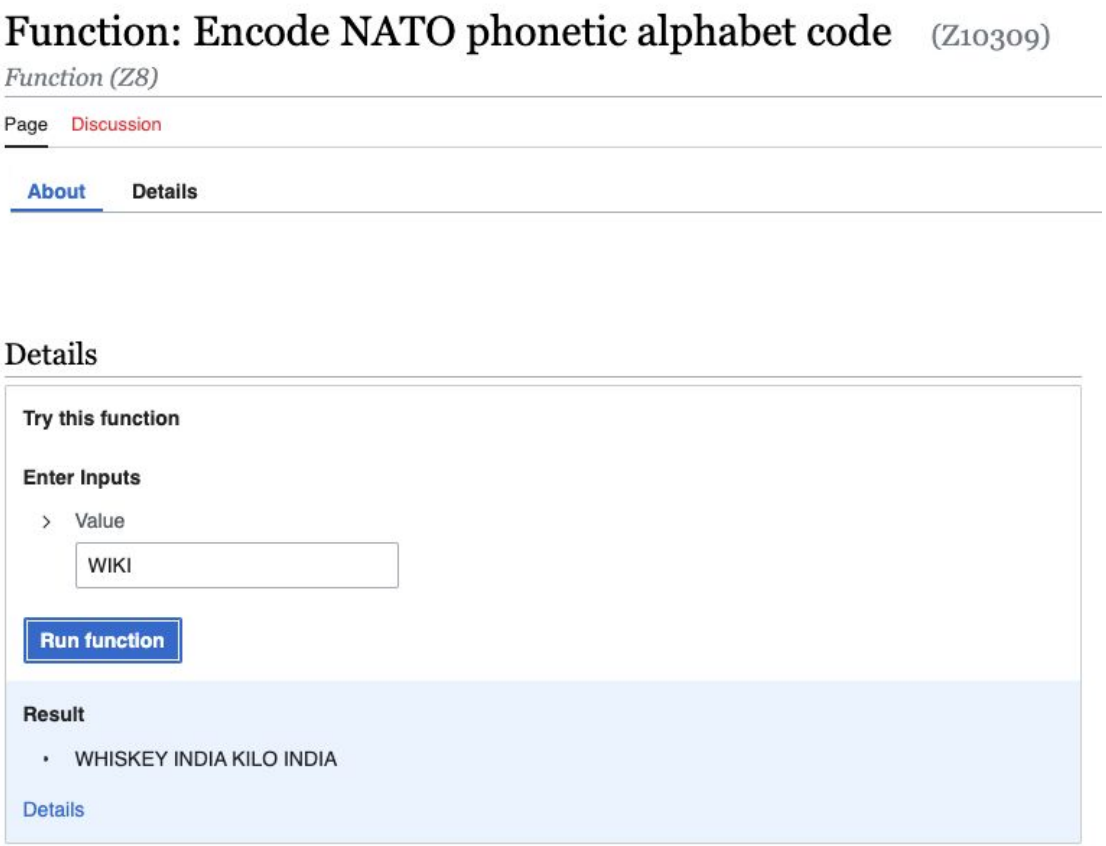
https://www.wikifunctions.org/view/en/Z10012

Functions on strings: toy examples



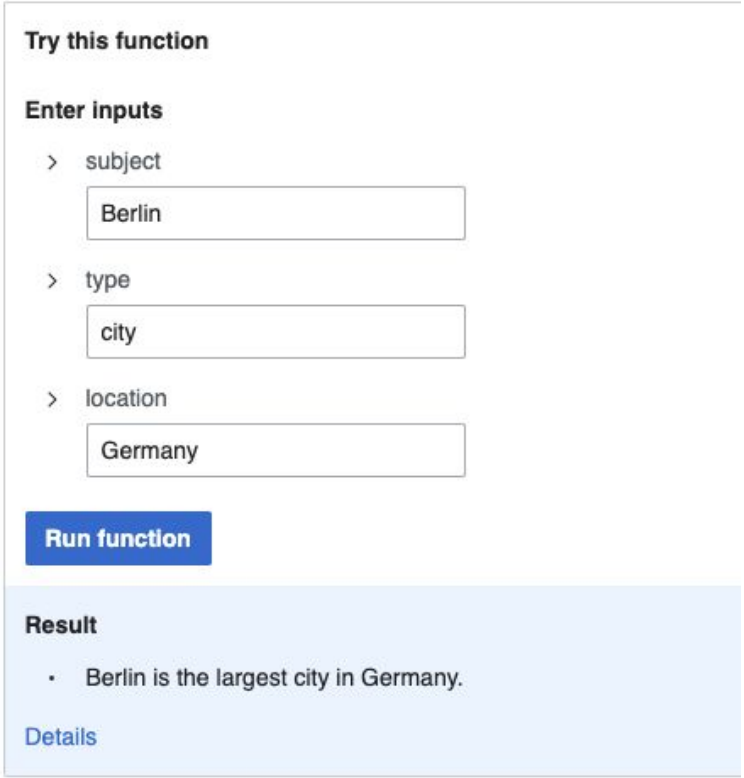
https://www.wikifunctions.org/view/en/Z10012

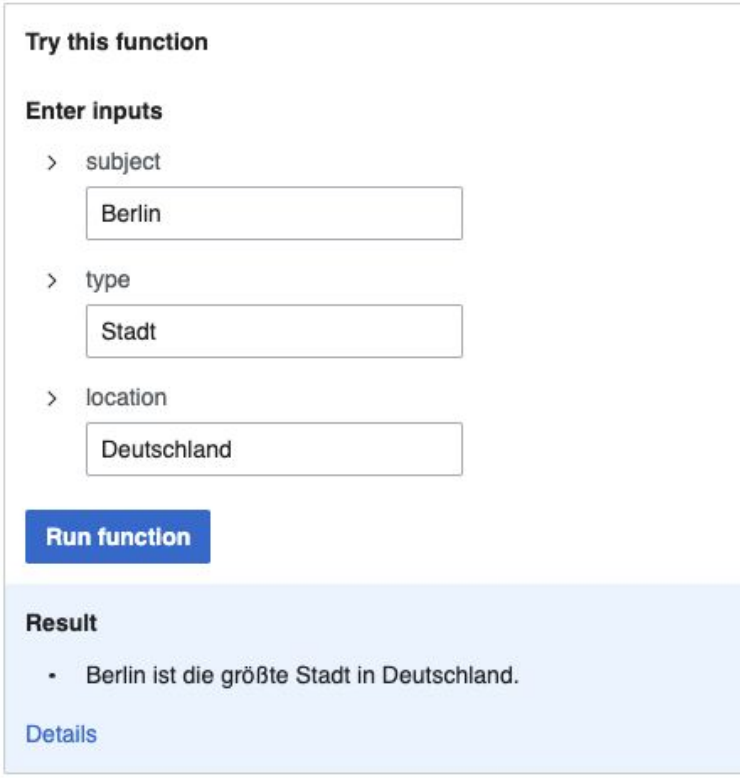
Functions on strings: toy examples



https://www.wikifunctions.org/view/en/Z10309

Functions to make model content?



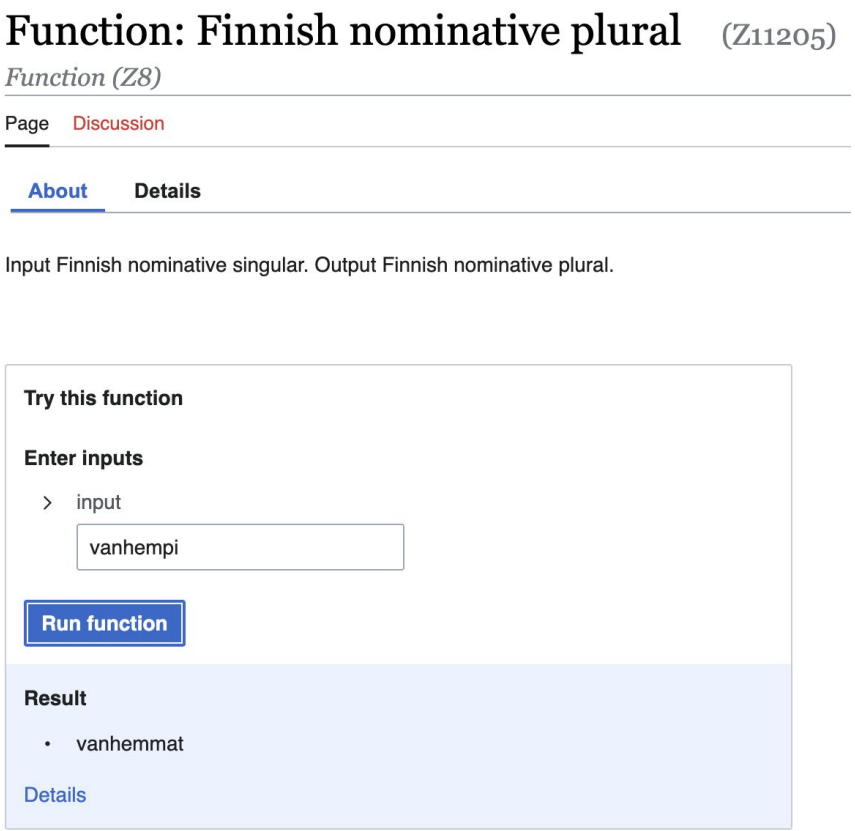


https://wikifunctions.beta.wmflabs.org/view/en/Z10901 || https://wikifunctions.beta.wmflabs.org/view/en/Z10910

WIKIMEDIA FOUNDATION

04 Early use of Wikifunctions

Functions to support languages



https://www.wikifunctions.org/view/en/Z11205

Functions to support languages

(L31797) vanhempi

fi

Language Finnish

Lexical category noun

Forms

L31797-F1 vanhempi

fi

Grammatical features nominative case, singular

Statements about L31797-F1

L31797-F2 vanhemmat

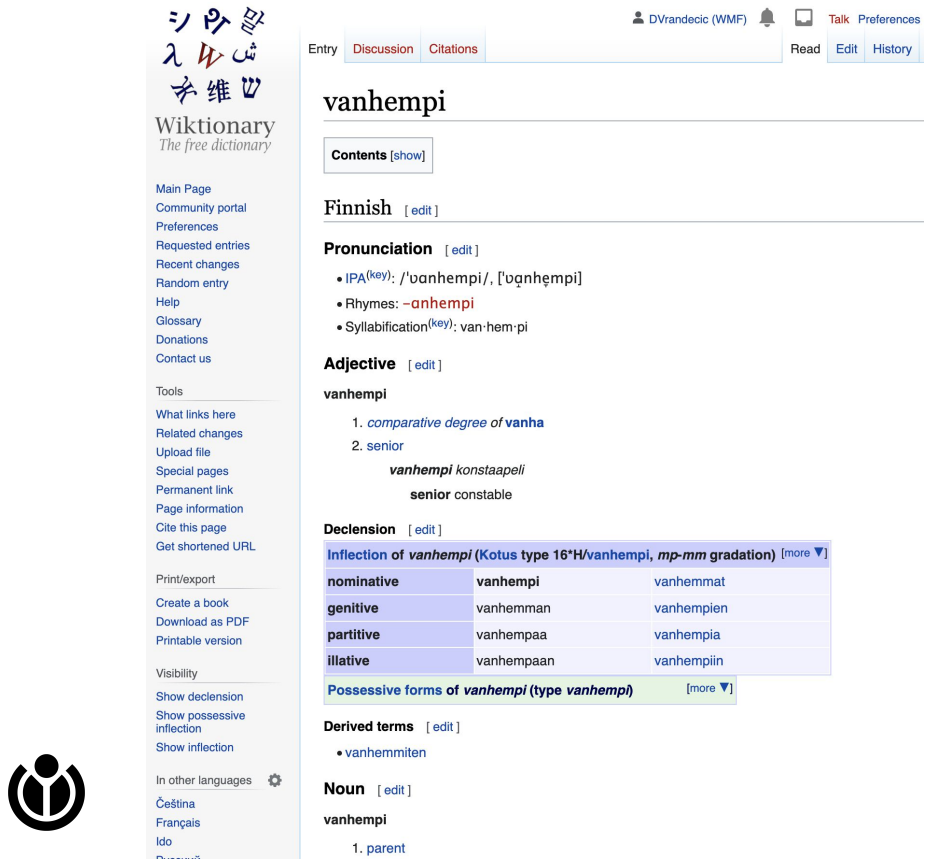
fi

Grammatical features nominative case, plural

Statements about L31797-F2

https://www.wikidata.org/wiki/Lexeme:L31797

Functions to support languages



Wiktionary
The free dictionary

Main Page
Community portal
Preferences
Requested entries
Recent changes
Random entry
Help
Glossary
Donations
Contact us

Tools
What links here
Related changes
Upload file
Special pages
Permanent link
Page information
Cite this page
Get shortened URL

Print/export
Create a book
Download as PDF
Printable version

Visibility
Show declension
Show possessive inflection
Show inflection

In other languages
Čeština
Français
Ido

DVrandecic (WMF) Talk Preferences

Entry Discussion Citations | Read Edit History

vanhempi

Contents [show]

Finnish [edit]

Pronunciation [edit]

- IPA(key): /ˈʋɑnhempi/, [ˈʋɑn̪hn̪empi]
- Rhymes: -ɑnhempi
- Syllabification(key): van·hem·pi

Adjective [edit]

vanhempi

1. *comparative degree of* **vanha**
2. senior
   ***vanhempi** konstaapeli*
   senior constable

Declension [edit]

Inflection of *vanhempi* (Kotus type 16*H/vanhempi, *mp-mm* gradation) [more ▼]		
nominative	**vanhempi**	vanhemmat
genitive	vanhemman	vanhempien
partitive	vanhempaa	vanhempia
illative	vanhempaan	vanhempiin

Possessive forms of *vanhempi* (type *vanhempi*) [more ▼]

Derived terms [edit]

- vanhemmiten

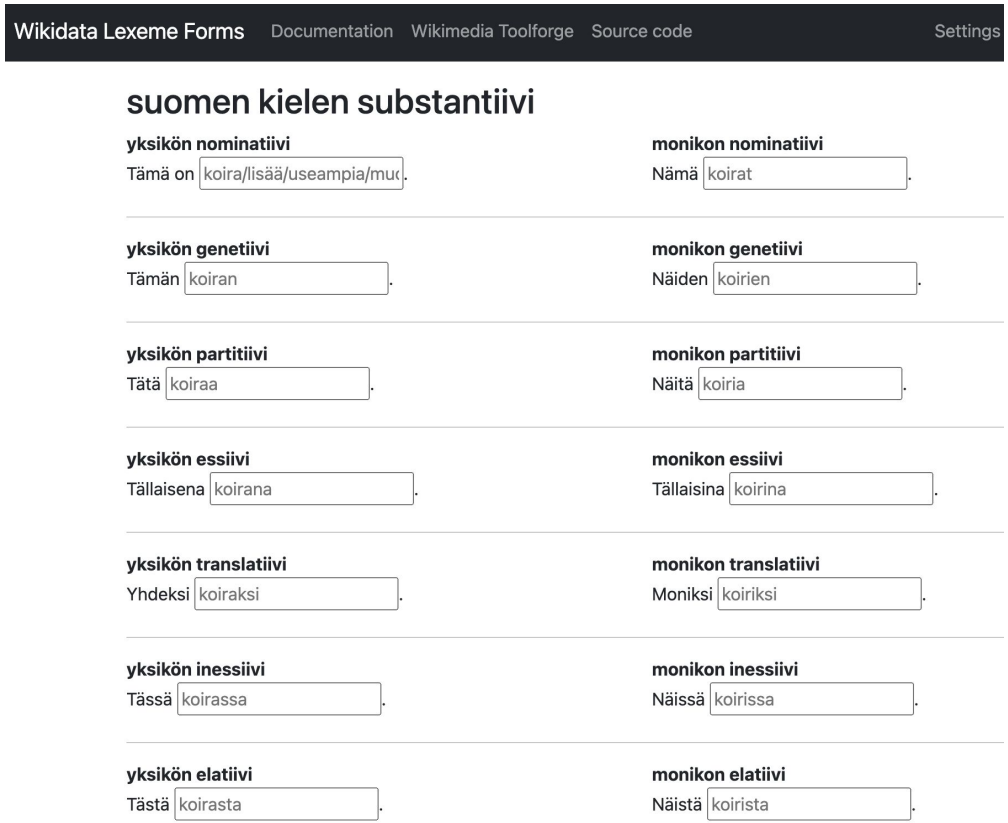
Noun [edit]

vanhempi

1. parent

https://en.wiktionary.org/wiki/vanhempi

Functions to support languages



https://lexeme-forms.toolforge.org/template/finnish-noun/

Functions to support languages

582 lexemes

Part of speech

Q1084 noun

478 lexemes

Conditions

Property

P5185 grammatical gender (476)

add condition

Input form

add feature Leave blank to use lemma

Output form

Q131105 nominative case

Q146786 plural

add feature or continue

197 forms

Input filter (default operator =)

How many forms to check (limit)

20

At which one to start (offset)

0

Function

Z10335 Croatian plural nominative female

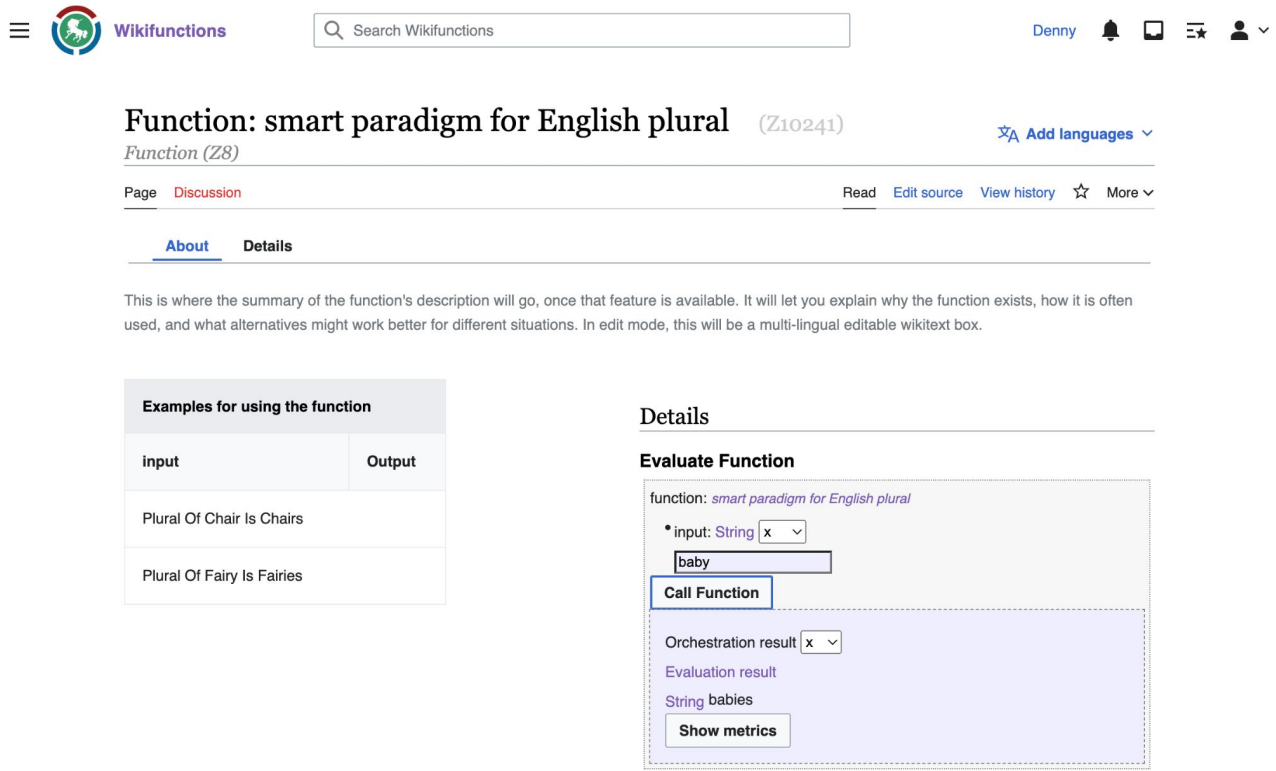
Check

Lexeme	Lemma	Input	Recorded	Function	OK
L708940	borba	borba	borbe	borbe	✅
L683117	boca	boca	boce	boce	✅
L1010847	bitka	bitka	bitke	bitke	✅
L1012623	biskupica	biskupica	biskupice	biskupice	✅
L692268	beskonačnost	beskonačnost	beskonačnosti	beskonačnosti	✅
L683112	basna	basna	basne	basne	✅
L683203	baka	baka	bake	bake	✅
L683111	bajka	bajka	bajke	bajke	✅
L616895	babica	babica	babice	babice	✅
L683204	baba	baba	babe	babe	✅
L684121	astronomija	astronomija	astronomije	astronomije	✅
L683113	arterija	arterija	arterije	arterije	✅
L736557	aritmetika	aritmetika	aritmetike	aritmetike	✅
L1012810	arheologinja	arheologinja	arheologinje	arheologinje	✅
L1012813	arheologija	arheologija	arheologije	arheologije	✅
L683155	aorta	aorta	aorte	aorte	✅
L688516	anatomija	anatomija	anatomije	anatomije	✅
L736559	algebra	algebra	algebre	algebre	✅
L235530	ada	ada	ade	ade	✅
L986503	Wikipedija	Wikipedija	Wikipedije	Wikipedije	✅

WIKIMEDIA FOUNDATION

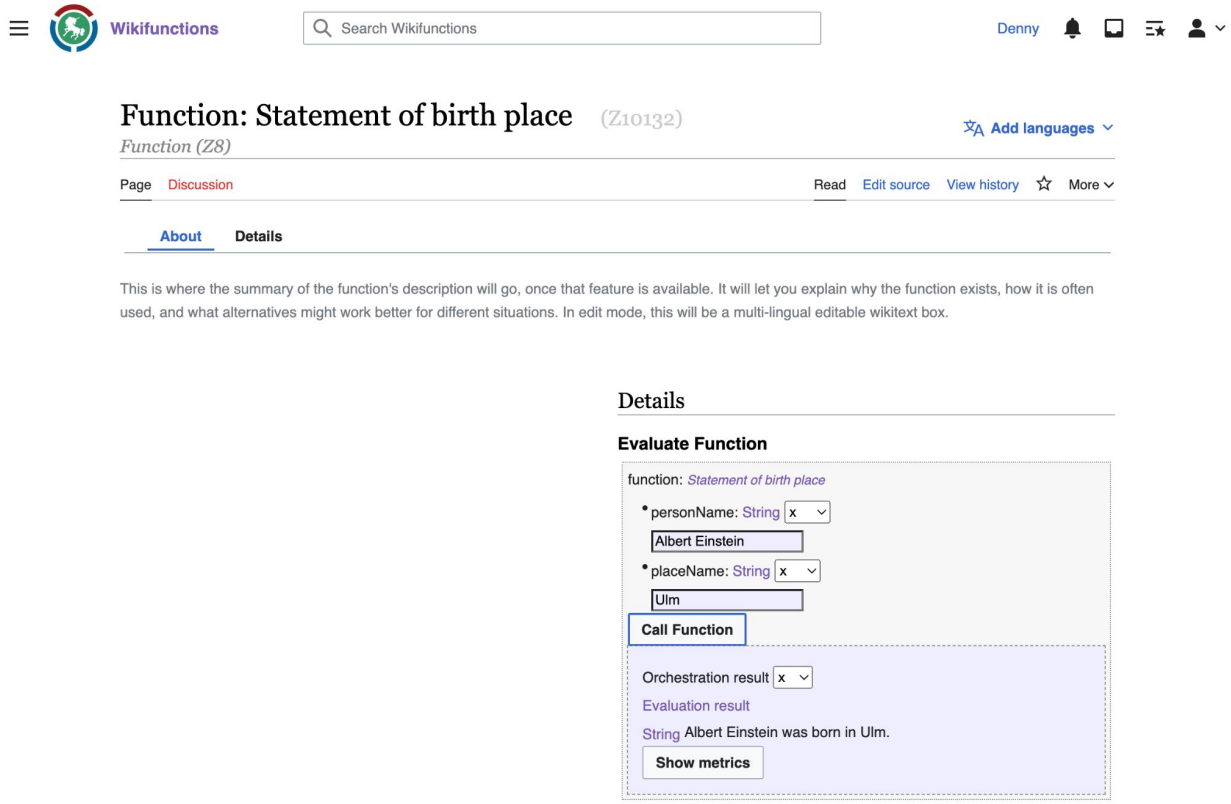
05 The Abstract Wikipedia vision

Basic "natural language" functions...



https://wikifunctions.beta.wmflabs.org/wiki/Z10241

… can build together



https://wikifunctions.beta.wmflabs.org/wiki/Z10132

Vision: Functions could create prose

Marie Curie was a Polish chemist and physicist. She was born 7 November 1867 in Warsaw and died 4 July 1934 in Passy. Marie Curie was a pioneer in the research of radioactivity. She researched radium. She was awarded the Nobel Prize in Physics in 1903, together with Pierre Curie and Henri Becquerel, for pioneering the research of radioactivity. She was awarded the Nobel Prize in Chemistry in 1909, for the discovery of polonium and radium. Marie Curie was the first woman to win the Nobel Prize.

מארי קירי הייתה כימאית ופיזיקאית פולנייה. היא נולדה ב-7 בנובמבר 1867 בוורשה ומתה ב-4 ביולי 1934 בפאסי (סבואה עילית). מארי קירי הייתה חלוצה בחקר הרדיואקטיביות. היא חקרה רדיום. היא זכתה בפרס נובל לפיזיקה ב-1903, יחד עם פייר קירי ואנרי בקרל, על חלוציות בחקר הרדיואקטיביות. היא זכתה בפרס נובל לכימיה ב-1909, על גילוי הפולוניום והרדיום. מארי קירי הייתה האישה הראשונה שזכתה בפרס נובל.

https://meta.wikimedia.org/wiki/Module:Sandbox/AbstractWikipedia

Vision: Functions could create prose

Marie Curie was a Polish chemist and physicist. She was born 7 November 1867 in Warsaw and died 4 July 1934 in Passy. Marie Curie was a pioneer in the research of radioactivity. She researched radium. She was awarded the Nobel Prize in Physics in 1903, together with Pierre Curie and Henri Becquerel, for pioneering the research of radioactivity. She was awarded the Nobel Prize in Chemistry in 1909, for the discovery of polonium and radium. Marie Curie was the first woman to win the Nobel Prize.

מארי קירי הייתה כימאית ופיזיקאית פולנייה. היא נולדה ב-7 בנובמבר 1867 בוורשה ומתה ב-4 ביולי 1934 בפאסי (סבואה עילית). מארי קירי הייתה חלוצה בחקר הרדיואקטיביות. היא חקרה רדיום. היא זכתה בפרס נובל לפיזיקה ב-1903, יחד עם פייר קירי ואנרי בקרל, על חלוציות בחקר הרדיואקטיביות. היא זכתה בפרס נובל לכימיה ב-1909, על גילוי הפולוניום והרדיום. מארי קירי הייתה האישה הראשונה שזכתה בפרס נובל.

https://meta.wikimedia.org/wiki/Module:Sandbox/AbstractWikipedia

… that updates across languages

Marie Curie was a Polish chemist and physicist. She was born 7 November 1867 in Warsaw and died 4 July 1934 in Passy. Marie Curie was a pioneer in the research of radioactivity. She researched radium. She was awarded the Nobel Prize in Physics in 1903, together with Pierre Curie and Henri Becquerel, for pioneering the research of radioactivity. She was awarded the Nobel Prize in Chemistry in 1911, for the discovery of polonium and radium. Marie Curie was the first woman to win the Nobel Prize.

מארי קירי הייתה כימאית ופיזיקאית פולנייה. היא נולדה ב-7 בנובמבר 1867 בוורשה ומתה ב-4 ביולי 1934 בפאסי (סבואה עילית). מארי קירי הייתה חלוצה בחקר הרדיואקטיביות. היא חקרה רדיום. היא זכתה בפרס נובל לפיזיקה ב-1903, יחד עם פייר קירי ואנרי בקרל, על חלוציות בחקר הרדיואקטיביות. היא זכתה בפרס נובל לכימיה ב-1911, על גילוי הפולוניום והרדיום. מארי קירי הייתה האישה הראשונה שזכתה בפרס נובל.

https://meta.wikimedia.org/wiki/Module:Sandbox/AbstractWikipedia (edited)

Controlled by Wikimedia communities

PlaceOfBirth
Person: Albert Einstein
Place: Ulm

"$Person was born in $Place."

Albert Einstein was born in Ulm.

https://commons.wikimedia.org/wiki/File:WP20Symbols_community1.svg; CC0

Controlled by Wikimedia communities

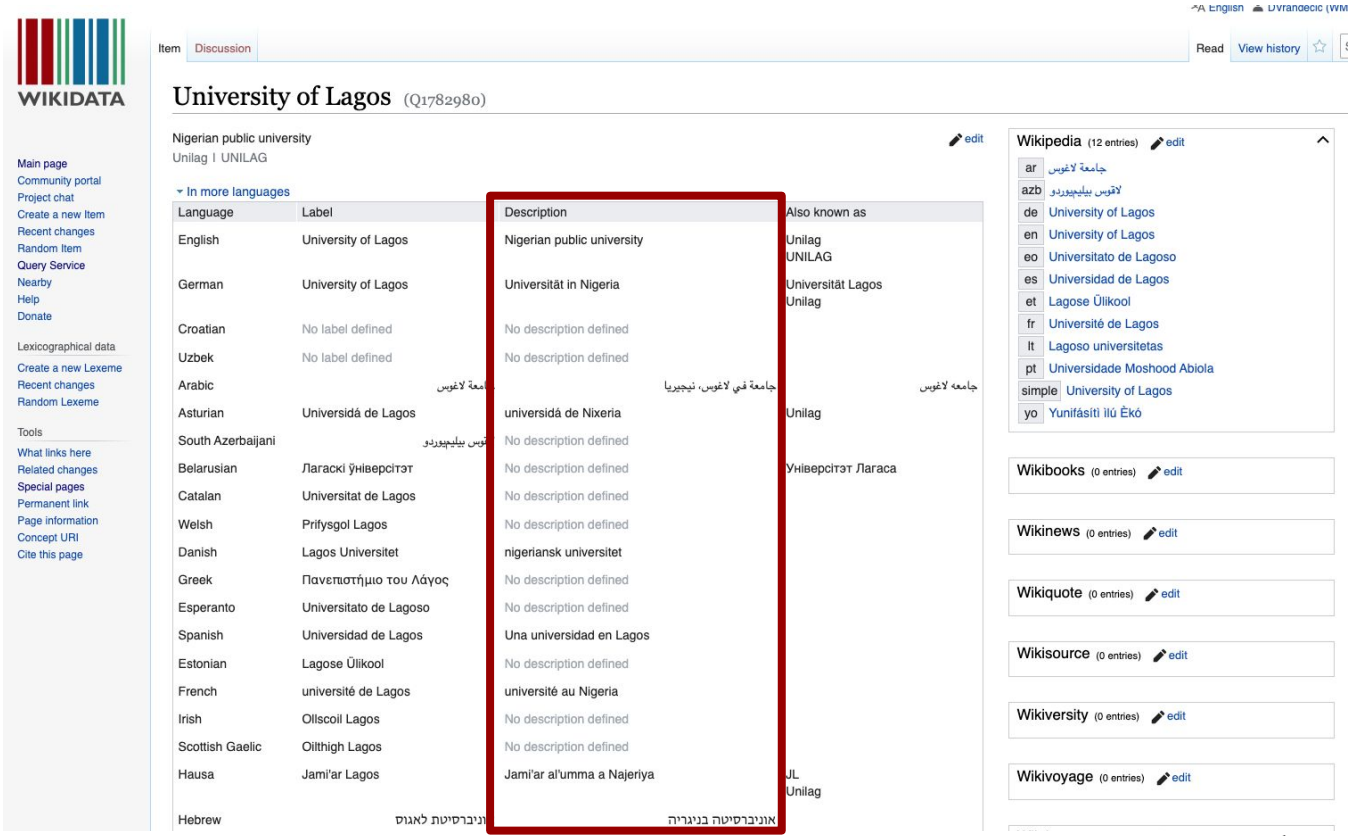
PlaceOfBirth
Person: Albert Einstein
Place: Ulm

“$Person je rođen u $Place:locative.”

Albert Einstein je rođen u Ulmu.

https://commons.wikimedia.org/wiki/File:WP20Symbols_community1.svg; CC0

Starting gently: Item descriptions



https://www.wikidata.org/wiki/Q1782980

Later, harder work: Automatic lists

List of national capitals by population

Article Talk Read

From Wikipedia, the free encyclopedia

This is a **list of national capitals, ordered according to population.** Capitals of dependent territories and disputed territories are marked in *italics*. The population statistics given refer only to the official capital area, and do not include the wider metropolitan/urban district.

Table [edit | edit source]

* indicates **"Cities of COUNTRY or TERRITORY"** links.

	Country (or territory)	Capital	Population	% of country	Source
1	**Palau**	Ngerulmud	0	0.0%	2010
2	**South Georgia and the South Sandwich Islands** (UK)	King Edward Point	22	73.3%	2018
3	**Pitcairn Islands** (UK)	Adamstown	40	100.0%	2021
4	**Cocos (Keeling) Islands** (Australia)	West Island	134	24.6%	2011

https://en.wikipedia.org/wiki/List_of_national_capitals_by_population

More contentious work: Infoboxes

Audrey Tang Feng
唐鳳

Minister of Digital Affairs

Incumbent

Personal details	
Born	Autrijus Tang Tsung-han (唐宗漢) 18 April 1981 (age 42) Taipei, Taiwan
Political party	Independent
Parents	Tang Kuang-hua (father) Li Ya-ching (mother)
Relatives	Bestian Tang Tsung-hao (brother)

https://en.wikipedia.org/wiki/Audrey_Tang || https://commons.wikimedia.org/wiki/File:Audrey_tang_089_(25378300354)_(cropped).jpg; CC0

WIKIMEDIA FOUNDATION

Thank you!

WIKIMEDIA
FOUNDATION