

# Wikifunctions is here

Collaboration between our projects

*In person*

James Forrester  
Denny Vrandečić  
Nick Wilson

*Representing*

Abstract Wikipedia team

**WIKIMANIA**  
**SINGAPORE**



# Wikifunctions is here

Collaboration between our projects



**WIKIMANIA  
SINGAPORE**

August/17/2023



# Wikifunctions

We are starting up a new project

[wikifunctions.org](https://wikifunctions.org)

Everyone can join!

**WIKIMANIA  
SINGAPORE**



# We have many different communities

Some are big, many are small

**WIKIMANIA  
SINGAPORE**



# English

125,000 monthly contributors

19,000 pages in modules

1.5 billion speakers

900 million unique devices

# Malay

680 monthly contributors

1,000 pages in modules

300 million speakers

6 million unique devices

# Hausa

60 monthly contributors

500 pages in modules

70 million speakers

200,000 unique devices

**WIKIMANIA**  
**SINGAPORE**



# Malay modules

**WIKIMANIA  
SINGAPORE**

Halaman berikutnya (ISO 3166/data/DE)

- Modul:AFC submission catchcheck
- 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:Adjacent stations/Shanghai Metro
- Modul:Adjacent stations/TTC
- Modul:Adjacent stations/Taipei Metro
- Modul:Adjacent stations/Taiwan Railways

- 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:Color contrast/colors
- Modul:Commons link
- Modul:Complex date
- Modul:Convert

- 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/Altvar data
- Modul:Flaglist
- Modul:Flex columns
- Modul:Flex columns/doc
- Modul:Flex columns/styles.css

Daripada Wikipedia, ensiklopedia bebas.

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

# Modul:Age on ms.wikipedia

**WIKIMANIA  
SINGAPORE**

```
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',
22     ['mt-need-valid-dd'] =     'Need valid death date (first date): year, month, day',
23     ['mt-need-valid-ynd'] =     'Need valid year, month, day',
24     ['mt-need-valid-ynd-current'] = 'Need valid year|month|day or "currentdate"',
25     ['mt-need-valid-ynd2'] =   'Second date should be year, month, day',
26     ['mt-template-bad-name'] = 'The specified template name is not valid',
27     ['mt-template-x'] =        'The template invoking this must have "|template=x" where x is the
wanted operation',
28     ['txt-and'] =              ' dan ',
```

## Modul:Age: Sejarah semakan

Modul [Perbincangan](#)

[Baca](#)

[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

Pilih: [Semua](#), [Tiada](#), [Songsang](#)

- (kini | akhir)  12:03, 14 Disember 2022 [Hayate891](#) ([bincang](#) | [sumb.](#)) . . (33,355 bait) **(+1,212)** . . (*Kemaskini*) ([batal](#) | [hargai](#))  
*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*) ([batal](#) | [hargai](#))
- (kini | akhir)  15:30, 14 April 2020 [SNN95](#) ([bincang](#) | [sumb.](#)) . . (32,143 bait) **(+12,552)** . . (*kemaskini*) ([batal](#) | [hargai](#))
- (kini | akhir)  1 [Modul:Age](#) n 2017 [SNN95](#) ([bincang](#) | [sumb.](#)) . . (19,591 bait) **(+5)** . . ([batal](#) | [hargai](#))
- (kini | akhir)  15:35, 27 April 2017 [Polar](#) ([bincang](#) | [sumb.](#)) . . (19,586 bait) **(+19,586)** . . (*Mencipta laman baru dengan menggunakan templat "age of" dan other date-related templates. local \_Date, \_current\_date local function get\_exports(frame) -- Return ob*)

### Bandingkan versi-versi yang dipilih

Pilih: [Semua](#), [Tiada](#), [Songsang](#)



# Modul:Age on ms.wikipedia

WIKIMANIA  
SINGAPORE

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...'*

Baris 288:

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

Semakan pada 15:02, 20 Jun 2017 (sunting) (batal)

SNN95 (bincang | sumb.)

Suntingan berikutnya →

Baris 288:

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

### Parameters

The following options are available:

Parameter	Description
<code>duration=on</code>	The finishing date is included in the result; that adds one day to
<code>fix=on</code>	Adjust invalid time units. See <a href="#">Template:Extract#Fix</a> .
<code>format=commas</code>	A value of 1,000 or more is displayed with commas.
<code>format=raw</code>	Numbers are displayed without commas and negative numbers are displayed with a hyphen for <code>{{#expr}}</code> . In addition, <code>{{age}}</code> outputs a plain number and will not include a span to indicate if the result is before or after the current date.
<code>format=cardinal</code>	Display the resulting number using words such as "five" instead of "5". See <a href="#">below</a> .
<code>format=ordinal</code>	Display the resulting number using words such as "fifth" instead of "5". See <a href="#">below</a> .
<code>prefix=</code> <i>text</i>	Insert the given <i>text</i> before the result but after any sort key. For example, <code>{{age 23 July 1910 14 July 1976}}</code> outputs a hidden span

# Module:Age on en.wikipedia

WIKIMANIA  
SINGAPORE

## Module:Age: Revision history

Module [Talk](#)

[Read](#) [View source](#) [View history](#)

[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

- [\(cur | prev\)](#)  [07:27, 11 June 2023](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (33,464 bytes) **(+2)** .. *(change default for {{age}} from range=no to range=days)* ([Template talk:Age#Inaccurate age shown](#)) (thank)
- [\(cur | prev\)](#)  [07:08, 21 May 2022](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (33,462 bytes) **(+226)** .. *(update from Module:Age/sandbox: implement sortable=table for Template:Death date and age)* (thank)
- [\(cur | prev\)](#)  [03:37, 24 April 2021](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (33,236 bytes) **(+1,048)** .. *(update from Module:Age/sandbox; this aids localization in bnwiki + bswiki)* (thank)
- [\(cur | prev\)](#)  [02:55, 3 August 2020](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (32,188 bytes) **(+50)** .. *(update from sandbox: implement show=M (minutes) (seconds))* (thank)
- [\(cur | prev\)](#)  [10:05, 29 February 2020](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (32,138 bytes) **(+530)** .. *(fix bug that can occur in {{age in years, months, days}} if attempt to make an invalid yyyy-02-29 date due to unwise wantMixture used to emulate original template)* (thank)
- [\(cur | prev\)](#)  [03:32, 3 May 2019](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (31,608 bytes) **(+100)** .. *(update from sandbox: use data-sort-value for sort key; talk:Age#Sorting will use data-sort-value)* (thank)
- [\(cur | prev\)](#)  [23:47, 7 April 2019](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (31,508 bytes) **(+261)** .. *(update from sandbox: Template:Death date and age now shows error if the death date is in future by more than one day)* (thank)
- [\(cur | prev\)](#)  [01:07, 31 March 2019](#) [Johnuniq](#) ([talk](#) | [contribs](#)) .. (31,247 bytes) **(+2,423)** .. *(fix message per Template talk:Death date and age)*

文A 84 languages ▾

**WIKIMANIA  
SINGAPORE**

# Modul:Age

Modul Percincangan

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 dateDiffer
6      ['mt-bad-param1'] = 'Invalid parameter <''
7      ['mt-bad-param2'] = 'Parameter $1=$2 i
8      ['mt-bad-show'] = 'Parameter show=$1
9      ['mt-cannot-add'] = 'Cannot add "<1"'.
10     ['mt-conflicting-show'] = 'Parameter show=$1
11     ['mt-date-wrong-order'] = 'The second date m
12     ['mt-odd-future'] = 'Death date /first
```

## 모듈:Age

모듈 토론

위키백과, 우리 모두의 백과사전.

**모듈 설명문서** [보기] [편집] [역사] [새로 고침]

**지원되는 틀** [원본 편집]

모듈:Age는 다음 틀을 구현합니다:

틀	필수 위키백스트
<span>{{extract}}</span>	<span>{{#invoke:age extract}}</span>

## Модуль:Age

Материал из Википедии — свободной энциклопедии

### ДОКУМЕНТАЦИЯ

*Во избежание поломок страниц, использующих этот модуль, экспериментируйте в [песочнице](#) (создать) или [песок](#). Пожалуйста, добавляйте категории на подстраницу /doc. Подстраницы этого модуля.*

```
1  -- Implement various "age of" and other date-related templates.
2
3  local mtext = {
4      -- Message and other text that should be localized.
5      ['mt-bad-param1'] = 'Invalid parameter $1',
6      ['mt-bad-param2'] = 'Parameter $1=$2 is invalid',
```

## 模組:Age

模块 讨论

维基百科，自由的百科全书

**模块文档** [查看] [编辑] [历史] [清除缓存]



此模块被引用於約115,000個頁面。  
為了避免造成大規模的影響，所有對此模块的編輯應先於沙盒或測試後無誤的版本可以一次性地加入此模块中，但是修改前請務必  
模块引用數量會自動更新。

**重要：**中文时间应该无空格，切忌照抄！

abbr\_infant不需要。新增abbr\_duration，用于显示时间（XX年而不是XX岁）。

Mit dieser Vorlage wird die Anzahl der Jahre zwischen zwei Daten oder einem Datum und dem heutigen wiedergegeben, wodurch sich die Vorlage besonders z eignet.

Inhaltsverzeichnis [Verbergen]

**Dokumentation**  
Verwendung  
Syntax  
Beispiele  
Siehe auch

# Módulo:Edad

Módulo Discusión

Leer Ver código fuente Ver historial ☆

**Documentación del módulo** [ver] [editar] [historial] [purgar]

*Módulo Edad (código · do*

*A continuación se muestra*

**Nota Importante:** Este mó  
funcionalidad de todas las  
reemplazo único para toda

## Module:Age

## Parameters

The following options are available:

Parameter	Description
<span>duration=on</span>	The finishing date is included in the result; that adds one day to the age.
<span>fix=on</span>	Adjust invalid time units. See <a href="#">Template:Extract#Fix</a> .
<span>format=commas</span>	A value of 1,000 or more is displayed with commas.
<span>format=raw</span>	Numbers are displayed without commas and negative numbers are displayed with a hyphen for <span><span> </span><span>{{#expr:}}</span></span> . In addition, <span><span> </span><span>{{age}}</span></span> outputs a plain number and will not include a span to indicate if the result relies on the current date.
<span>format=cardinal</span>	Display the resulting number using words such as "five" instead of 5. See <a href="#">below</a> .
<span>format=ordinal</span>	Display the resulting number using words such as "fifth" instead of 5. See <a href="#">below</a> .

84 bahasa ▼

84种语言 ▼

Vorlage:Alter

**Dokumentation**

84 idiomas ▼

elie Satz Parameter nicht übergeben wird, wird die Differenz zwisch

<span> </span>	Typ	Status
ams	Nummer	erforderlich



# Modul:Age

Modul Percincangan

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 dateDiffer
6   ['mt-bad-param1'] = 'Invalid parameter <''
7   ['mt-bad-param2'] = 'Parameter $1=$2 i
8   ['mt-bad-show'] = 'Parameter show=$1
9   ['mt-cannot-add'] = 'Cannot add "$1"',
10  ['mt-conflicting-show'] = 'Parameter show=$1
11  ['mt-date-wrong-order'] = 'The second date m
12  ['mt-add-future'] = 'Death date (first
```

## 모듈:Age

모듈 토론

위키백과, 우리 모두의 백과사전.

[[백:모듈 설명문서|모듈 설명문서]] [보기] [편집] [역사] [새로 고침]

**지원되는 틀** [원본 편집]

모듈:Age는 다음 틀을 구현합니다:

틀	필수 위키백스트
<span>{{extract}}</span>	<span>{{#invoke:age extract}}</span>

## Модуль:Age

Материал из Википедии — свободной энциклопедии

### ДОКУМЕНТАЦИЯ

Во избежание поломок страниц, использующих этот модуль, экспериментируйте в *песочнице* (создать) или *песок* (создать). Пожалуйста, добавляйте категории на подстраницу /doc. Подстраницы этого модуля.

```
1 -- Implement various "age of" and other date-related templates.
2
3 local mtext = {
4   -- Message and other text that should be localized.
5   ['mt-bad-param1'] = 'Invalid parameter $1',
6   ['mt-bad-param2'] = 'Parameter $1=$2 is invalid',
```

## 模組:Age

模块 讨论

维基百科，自由的百科全书

[[백:모듈 문서|모듈 문서]] [查看] [编辑] [历史] [清除缓存]



此模块被引用於約115,000個頁面。

為了避免造成大規模的影響，所有對此模块的編輯應先於沙盒或測試後無誤的版本可以一次性地加入此模块中，但是修改前請務必先通知。模块引用數量會自動更新。

**重要：**中文时间应该无空格，切忌照抄！

abbr\_infant不需要。新增abbr\_duration，用于显示时间（XX年而不是XX岁）。

Mit dieser Vorlage wird die Anzahl der Jahre zwischen zwei Daten oder einem Datum und dem heutigen wiedergegeben, wodurch sich die Vorlage besonders z eignet.

Inhaltsverzeichnis [Verbergen]

**Dokumentation**  
Verwendung  
Syntax  
Beispiele  
Siehe auch

# Módulo:Ed

Módulo Disc

Leer Ver código fuente Ver historial ☆

[[백:모듈 문서|모듈 문서]] [보기] [편집] [역사] [새로 고침]

Módulo

A contin

**Nota Import**

funcionalidad de

reemplazo único para toda

editar[historial] [purgar]

## Parameters

The following options are available:

Parameter	Description
<span>duration=on</span>	The finishing date is included in the result; that adds one day to the age.
<span>fix=on</span>	Adjust invalid time units. See <a href="#">Template:Extract#Fix</a> .
<span>format=commas</span>	A value of 1,000 or more is displayed with commas.
<span>format=rw</span>	Numbers are displayed without commas and negative numbers are displayed with a hyphen for <span>{{#expr}}</span> . In addition, <span>{{age}}</span> outputs a plain number and will not include a span to indicate if the result relies on the current date.
<span>format=cardinal</span>	Display the resulting number using words such as "five" instead of 5. See <a href="#">below</a> .
<span>format=ordinal</span>	Display the resulting number using words such as "fifth" instead of 5. See <a href="#">below</a> .



**WIKIMANIA  
SINGAPORE**



# Function: age (Z11206)

Function (Z8)

Page [Discussion](#)

[About](#) [Details](#)

## Details

### Try this function

#### Enter inputs

- **date**
  - **type**
    -
  - **day of month**
    - **type**
      -
    - > **value**
      -
  - > **month**
    -
  - **year**
    - **type**
      -
    - > **value**
      -
  - > **era**
    -

Run function







# Welcome to Wikifunctions

Wikifunctions is a [free](#) library of [functions](#) that (*soon*) 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

- [Project chat](#)
- [Suggest a function](#)
- [Catalogue of available functions](#)
- [Apply for edit rights](#)

## Functions to try out

- [reverse string](#) • [check if a string is a palindrome](#) • [is one string in another](#) • [to uppercase](#) • [to lowercase](#) • [join two strings](#) • [trim string](#)
- [is the string empty](#) • [are two strings the same](#) • [are two booleans the same](#) • [more functions...](#)



# Function: not (Z10216)

[? Help](#)

*Function (Z8)*

[Page](#) [Discussion](#)

[Read](#)

[Edit source](#)

[View history](#)



[Tools](#)

[About](#)

[Details](#)

takes a truth value and returns its opposite

[Show name in other languages](#)

### Also known as

[EN](#) negate

[EN](#) negation

[EN](#) !

[EN](#) complement

[EN](#) opposite

[Show more languages](#)

## Details

### Try this function

#### Enter Inputs

> Value To Be Negated

true

false

[Run function](#)



### Try this function

#### Enter Inputs

> Value To Be Negated

true  false

**Run function**

#### Result

> false

[Details](#)

### Try this function

#### Enter Inputs

> Value To Be Negated

true  false

**Run function**

#### Result

> true

[Details](#)

**WIKIMANIA  
SINGAPORE**

[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](#)

[Create a new implementation](#)

[Create a new test](#)

Implementations				<a href="#">Approve</a>	<a href="#">Deactivate</a>
<input type="checkbox"/>	Name	Language	State	Tests Passed	
<input type="checkbox"/>	<a href="#">JavaScript negation</a>	javascript	<span>✓ Approved</span>	-	
<input type="checkbox"/>	<a href="#">negation as a composition</a>	Composition	<span>✓ Approved</span>	-	
<input type="checkbox"/>	<a href="#">Python negation</a>	python	<span>✓ Approved</span>	-	

Test cases						<a href="#">Approve</a>	<a href="#">Deactivate</a>
<input type="checkbox"/>	Name	JavaScript negation	negation as a composition	Python negation	State		
<input type="checkbox"/>	<a href="#">true negated is false</a>	<span>✓ Pass</span> <span>i</span>	<span>✓ Pass</span> <span>i</span>	<span>✓ Pass</span> <span>i</span>	<span>✓ Approved</span>		
<input type="checkbox"/>	<a href="#">false negated is true</a>	<span>✓ Pass</span> <span>i</span>	<span>✓ Pass</span> <span>i</span>	<span>✓ Pass</span> <span>i</span>	<span>✓ Approved</span>		



# Implementation: Python negation (Z10538)



Implementation (Z14)

Page [Discussion](#)

[Read](#) [Edit source](#) [View history](#) [Tools](#)

## About

### Labels

Python negation

2 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
```

## Test cases

true negated is false

Pass [Details](#)

false negated is true

Pass [Details](#)

## Try this implementation

### Enter Inputs

> Value To Be Negated

true  false

[Run function](#)

WIKIMANIA  
SINGAPORE



# Implementation: negation in JS function syntax (Z10586)



Implementation (Z14)

Page [Discussion](#)

[Read](#) [Edit source](#) [View history](#) [Tools](#)

## About

### Labels

negation in JS function syntax

## 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 }
```

## Test cases

true negated is false

Pass [Details](#)

false negated is true

Pass [Details](#)

## Try this implementation

### Enter Inputs

> Value To Be Negated

true  false

[Run function](#)

# Implementation: negation as a composition (Z10537)

[Implementation \(Z14\)](#)[Page](#) [Discussion](#)[Read](#)[Edit source](#)[View history](#)[Tools](#) ▼

## About



### Labels

negation as a composition

2 languages

## Function explorer

### Name

not

### Inputs

Boolean

value to be negated

### Output

Boolean

## Contents

### Function

[not](#)

### Implementation

Composition

### Composition

- ▼ • Type
  - [Function call](#)
- Function
  - [If](#)
- Condition
  - Type
    - [Argument reference](#)
  - Key Id
    - Z10216K1
- > Then
  - [false](#)
- > Else
  - [true](#)

## Test cases



true negated is false

Pass [Details](#)

false negated is true

Pass [Details](#)

## Try this implementation

### Enter Inputs

&gt; Value To Be Negated

 true  false[Run function](#)

### Result

&gt; true

[Details](#)



# Implementacja: negacja jako złożenie (Z10537)



Pomoc

*Implementacja (Z14)*Strona [Dyskusja](#)[Czytaj](#)[Edytuj kod źródłowy](#)[Wyświetl historię](#)[Narzędzia](#) ▾

## Informacje



### Etykiety

negacja jako złożenie

2 języki

## Eksplorator funkcji

### Nazwa

negacja logiczna

### Wejścia

Wartość logiczna  
wartość do zanegowania

### Wyjście

Wartość logiczna

## Zawartość

### Funkcja

[negacja logiczna](#)

### Implementacja

Złożenie Funkcji

### Złożenie Funkcji

- Typ
      - [Wywołanie funkcji](#)
    - Funkcja
      - [jeśli](#)
    - Warunek
      - Typ
        - [Odwołanie do argumentu](#)
      - Identyfikator Argumentu
        - Z10216K1
  - > Następnik
    - [falsz](#)
  - > Inny
    - [prawda](#)

## Przypadki testowe



- ✓ prawda po zanegowaniu daje fałsz
    - Przeszedł [Szczegóły](#)
  - ✓ fałsz po zanegowaniu daje prawdę
    - Przeszedł [Szczegóły](#)

## Wypróbuj tę implementację

### Wprowadź Dane Wejściowe

&gt; Wartość Do Zanegowania



prawda



falsz

[Wywołaj funkcję](#)

### Wynik

> [prawda](#)[Szczegóły](#)





**WIKIMANIA  
SINGAPORE**



# Function: Encode NATO phonetic alphabet code (Z10309)

*Function (Z8)*

Page [Discussion](#)

[About](#) [Details](#)

## Details

### Try this function

#### Enter Inputs

> Value

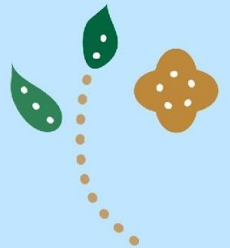
[Run function](#)

#### Result

- WHISKEY INDIA KILO INDIA

[Details](#)

WIKIMANIA  
SINGAPORE



### Try a function

#### Function

Reverse String



#### Enter Inputs

> Value

diputs

Run function

WIKIMANIA  
SINGAPORE

### Try a function

#### Function

Reverse String



#### Enter Inputs

> Value

diputs

**Run function**

#### Result

- stupid

[Details](#)

**WIKIMANIA  
SINGAPORE**

### Try a function

#### Function

Turkish final-obstruent devoic

#### Enter Inputs

> Word

yaprak

Run function

#### Result

- yaprağ

[Details](#)

### Try this function

#### Enter inputs

> subject

> type

> location

**Run function**

#### Result

- Berlin is the largest city in Germany.

[Details](#)

### Try this function

#### Enter inputs

> subject

> type

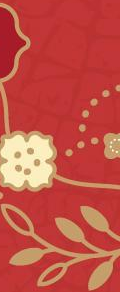
> location

**Run function**

#### Result

- Berlin ist die größte Stadt in Deutschland.

[Details](#)

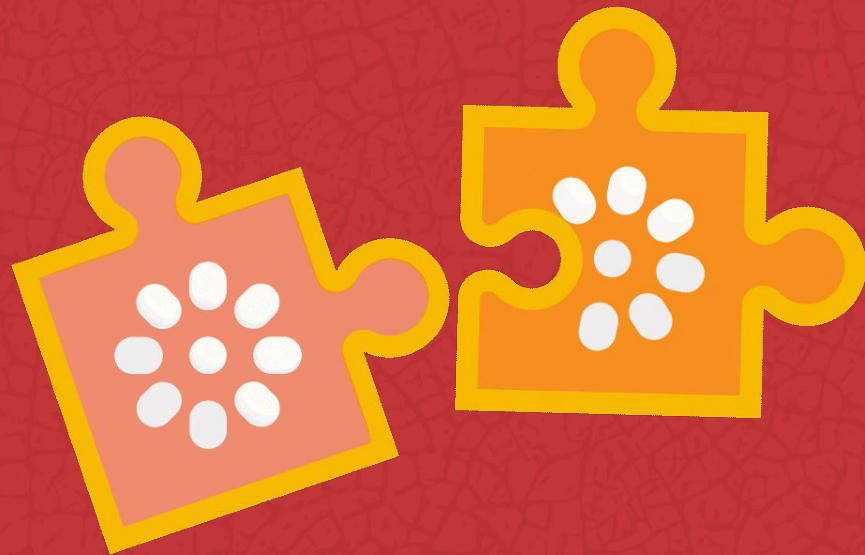


# Join us!

[wikifunctions.org](http://wikifunctions.org)

We answer questions  
Time to ask them

**WIKIMANIA  
SINGAPORE**



# Amazing world-wide team

James Forrester

Geno Galarza Heredero

Cory Massaro

David Martin

Carrie Coxwell

Stef Dunlap

Megan Neisler

**WIKIMANIA**  
**SINGAPORE**

Amin Al Hazwani

Elena Tonkovidova

Nick Wilson

Luca Martinelli

Amy Tsay

Denny Vrandečić

and volunteers

and other teams

We're hiring!





# Speakers



**WIKIMANIA  
SINGAPORE**



**James Forrester**  
Staff Software Engineer,  
Wikimedia Foundation



**Denny Vrandečić**  
Head of Special Projects,  
Wikimedia Foundation



**Nick Wilson**  
Community Relations Specialist,  
Wikimedia Foundation



Thursday, August 17 (07:30–08:30 UTC) / 15:30–16:30 local

# Credits



**WIKIMANIA  
SINGAPORE**

Wikimania design elements:

- <https://wikimania.wikimedia.org/wiki/2023:Designs>

Text screenshots:

- <https://ms.wikipedia.org/wiki/Modul:Age>
- <https://en.wikipedia.org/wiki/Module:Age>
- and more: <https://www.wikidata.org/wiki/Q12085840>
- <https://www.wikifunctions.org/wiki/Z10309>
- and more: <https://www.wikifunctions.org/>
- <https://wikifunctions.beta.wmflabs.org/wiki/Z11206>
- <https://www.wikifunctions.org/wiki/Z10216>
- <https://www.wikifunctions.org/wiki/Z10538>
- <https://www.wikifunctions.org/wiki/Z10586>
- <https://www.wikifunctions.org/wiki/Z10537>
- 

Photos:

- [https://commons.wikimedia.org/wiki/File:Abstract\\_Wikipedia\\_Team\\_Delft\\_2023.jpg](https://commons.wikimedia.org/wiki/File:Abstract_Wikipedia_Team_Delft_2023.jpg)
- [https://commons.wikimedia.org/wiki/File:James\\_Forrester\\_\(WMF\)\\_2013.jpg](https://commons.wikimedia.org/wiki/File:James_Forrester_(WMF)_2013.jpg)
- [https://commons.wikimedia.org/wiki/File:Dr.\\_Denny\\_Vrande%C4%8Di%C4%87-3.jpg](https://commons.wikimedia.org/wiki/File:Dr._Denny_Vrande%C4%8Di%C4%87-3.jpg)
- [https://commons.wikimedia.org/wiki/File:Wilson,\\_Nick\\_January\\_2016.jpg](https://commons.wikimedia.org/wiki/File:Wilson,_Nick_January_2016.jpg)

Other images:

- <https://commons.wikimedia.org/wiki/File:Wikifunctions-logo.svg>