Modul:Convert/Doku

Dies ist die Dokumentationsseite für Modul:Convert

Vorlage:Transwiki guide Vorlage:Lua Vorlage:Uses TemplateStyles This module converts a value from one unit of measurement to another. For example:

- `{{convert|123|lb|kg}}` → 123 pounds (56 kg)

The module is called using a template—parameters passed to the template are used by this module to control how a conversion is performed. For example, units can be abbreviated (like `kg`), or displayed as names (like `kilogram`), and the output value can be rounded to a specified precision. For usage information, see Help:Convert.

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Templates and modules

Templates that invoke this module are:

- Template:Convert
- Template:Cvt Vorlage:Green

The following modules are required:

- Module:Convert – *(this module)* code to convert units
- Module:Convert/data – unit definitions
- Module:Convert/text – text messages, and parameter names and values

The following modules are optional and are used only if required and if the module exists:

- Module:Convert/extra – extra (temporary) unit definitions; used if a unit is not found in Module:Convert/data
- Module:ConvertNumeric – code to spell an input value in words (only English is supported; however, see vi:Module:ConvertNumeric)

For Wikidata support the following modules are required:

- Module:Convert/wikidata
- Module:Convert/wikidata/data

The following help pages are available:

- Help:Convert – overview
- Help:Convert messages – describes error and warning messages; messages link to this page so it is required when the module is copied to another wiki
- Help:Convert units – overview of units

A page containing a convert error is added to the following hidden category, providing the page is in a specified namespace (articles, by default):

- Vorlage:Clc

Units are defined in the wikitext of the master list of units.

- Module:Convert/documentation/conversion data – master list of unit definitions
- Module:Convert/makeunits – translates wikitext from the master list to Lua
- Module talk:Convert/makeunits – makeunits results; copy the text to Module:Convert/data

Module:Convert/data is transcluded into every page using the convert module, so experimenting with a new unit in that module would involve a significant overhead. The Module:Convert/extra module is an alternative which is only transcluded on pages with a unit that is not defined in the main data module.

Module talk:Convert/show lists all unit links so they can be checked.

Sandbox

When making a change, copy the current modules to the sandbox pages, then edit the sandbox copies:

- Module:Convert • Module:Convert/sandbox • same content
- Module:Convert/data • Module:Convert/data/sandbox • same content
- Module:Convert/text • Module:Convert/text/sandbox • same content
- Module:Convert/extra • Module:Convert/extra/sandbox • same content
- Module:Convert/wikidata • Module:Convert/wikidata/sandbox • same content
- Module:Convert/wikidata/data • Module:Convert/wikidata/data/sandbox • same content

Use the following template to test the results (example `{{convert/sandbox|123|lb|kg}}`):

- Template:Convert/sandbox

Template:Convert/sandbox invokes Module:Convert/sandbox with parameter Vorlage:Para which causes convert to use the sandbox modules rather than the normal modules.

The following should be used to test the results of editing the convert modules.

- Template:Convert/testcases#Sandbox testcases – links to testcases
- Module:Convert/tester – module to run tests by comparing template output with fixed text

It is not necessary to save a testcases page before viewing test results. For example, Template: Convert/testcases/sandbox4 could be edited to change the tests. While still editing that page, paste Vorlage:Nowrap (without quotes) into the page title box under "Preview page with this template", then click "Show preview".

Configuration

The template that invokes this module can define options to configure the module. For example:

- `{{#invoke:convert|convert|numdot=,|numsep=.}}`

  Sets the decimal mark to be a comma, and the thousands separator to be a dot.

Other options, with default values, are:

- `|maxsigfig=14` – maximum number of significant figures
- `|nscat=0` – namespaces (comma separated) in which an error or warning adds a category to the page
- `|warnings=0` – 0 (zero) disables warnings; 1 shows important warnings; 2 shows all warnings

An option in the template can specify that the sandbox versions of the modules be used. If specified, the text on the right-hand side of the equals sign must be the name of the subpage for each sandbox module.

- `|sandbox=sandbox` – omit for normal operation

All text used for input parameters and for output messages and categories can be customized. For example, at enwiki the option `|lk=on` can be used to link each displayed unit to its article. The "`lk`" and "`on`" can be replaced with any desired text. In addition, input and output numbers can be formatted and can use digits in the local language. See the translation guide for more information.

To do

Document the modules to access Wikidata!

Module version history

- Version 1 December 2013
- Version 2 January 2014
- Version 3 April 2014
- Version 4 July 2014
- Version 5 September 2014
- Version 6 November 2014
- Version 7 December 2014
- Version 8 February 2015
- Version 9 February 2015
- Version 10 May 2015

- Version 11 June 2015
- Version 12 August 2015
- Version 13 March 2016
- Version 14 June 2016 Vorlage:Green
- Version 15 September 2016
- Version 16 January 2017
- Version 17 May 2017
- Version 18 July 2017
- Version 19 August 2017
- Version 20 December 2017 Vorlage:Green
- Version 21 January 2018 Vorlage:Green
- Version 22 February 2018 Vorlage:Green
- Version 23 June 2018 Vorlage:Green
- Version 24 May 2019 Vorlage:Green
- Version 25 May 2021 Vorlage:Green
- Version 26 June 2021 Vorlage:Green
- Version 27 February 2022 Vorlage:Green