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Modul:Documentation/config

This is the configuration file for [Module:Documentation](#). This file can be edited to allow easy translation/porting of the module to other wikis.

```
-----
--
--                               Configuration for Module:Documentation
--
-- Here you can set the values of the parameters and messages used in Module:Docu
-- localise it to your wiki and your language. Unless specified otherwise, values
-- should be string values.
-----

local _format = require('Module:TNT').format
local function format(id)
    return _format('%I18n/Documentation', id)
end

local cfg = {} -- Do not edit this line.

cfg['templatestyles-scr'] = 'Module:Documentation/styles.css'

-----
-- Protection template configuration
-----

-- cfg['protection-template']
-- The name of the template that displays the protection icon (a padlock on enwiki)
cfg['protection-template'] = 'pp-template'

-- cfg['protection-reason-edit']
-- The protection reason for edit-protected templates to pass to
-- [[Module:Protection banner]].
cfg['protection-reason-edit'] = 'template'

--[[
-- cfg['protection-template-args']
-- Any arguments to send to the protection template. This should be a Lua table.
-- For example, if the protection template is "pp-template", and the wikitext tem
-- looks like "{{pp-template|docusage=yes}}", then this table should look like "{
--]]
cfg['protection-template-args'] = {docusage = 'yes'}

--[[
-----
-- Sandbox notice configuration
--
-- On sandbox pages the module can display a template notifying users that the cu
-- sandbox, and the location of test cases pages, etc. The module decides whether
-- sandbox or not based on the value of cfg['sandbox-subpage']. The following set
-- messages that the notices contains.
-----

--]]

-- cfg['sandbox-notice-image']
-- The image displayed in the sandbox notice.
cfg['sandbox-notice-image'] = '[[Image:Edit In Sandbox Icon - Color.svg|40px|alt=
```



```
--[[
-- cfg['sandbox-notice-pagetype-template']
-- cfg['sandbox-notice-pagetype-module']
-- cfg['sandbox-notice-pagetype-other']
-- The page type of the sandbox page. The message that is displayed depends on the
-- namespace. This message is used in either cfg['sandbox-notice-blurb'] or
-- cfg['sandbox-notice-diff-blurb'].
--]]
cfg['sandbox-notice-pagetype-template'] = format('sandbox-notice-pagetype-templ
cfg['sandbox-notice-pagetype-module'] = format('sandbox-notice-pagetype-module')
cfg['sandbox-notice-pagetype-other'] = format('sandbox-notice-pagetype-other')

--[[
-- cfg['sandbox-notice-blurb']
-- cfg['sandbox-notice-diff-blurb']
-- cfg['sandbox-notice-diff-display']
-- Either cfg['sandbox-notice-blurb'] or cfg['sandbox-notice-diff-blurb'] is the
-- of the sandbox notice. The latter has a diff link, but the former does not. $1
-- type, which is either cfg['sandbox-notice-pagetype-template'],
-- cfg['sandbox-notice-pagetype-module'] or cfg['sandbox-notice-pagetype-other']
-- namespace we are in. $2 is a link to the main template page, and $3 is a diff
-- the sandbox and the main template. The display value of the diff link is set to
-- cfg['sandbox-notice-compare-link-display'].
--]]
cfg['sandbox-notice-blurb'] = format('sandbox-notice-blurb')
cfg['sandbox-notice-diff-blurb'] = format('sandbox-notice-diff-blurb')
cfg['sandbox-notice-compare-link-display'] = format('sandbox-notice-compare-link

--[[
-- cfg['sandbox-notice-testcases-blurb']
-- cfg['sandbox-notice-testcases-link-display']
-- cfg['sandbox-notice-testcases-run-blurb']
-- cfg['sandbox-notice-testcases-run-link-display']
-- cfg['sandbox-notice-testcases-blurb'] is a sentence notifying the user that th
-- corresponding to this sandbox that they can edit. $1 is a link to the test cas
-- cfg['sandbox-notice-testcases-link-display'] is the display value for that lin
-- cfg['sandbox-notice-testcases-run-blurb'] is a sentence notifying the user th
-- corresponding to this sandbox that they can edit, along with a link to run it
-- cases page, and $2 is a link to the page to run it.
-- cfg['sandbox-notice-testcases-run-link-display'] is the display value for the
-- cases.
--]]
cfg['sandbox-notice-testcases-blurb'] = format('sandbox-notice-testcases-blurb')
cfg['sandbox-notice-testcases-link-display'] = format('sandbox-notice-testcases-1
cfg['sandbox-notice-testcases-run-blurb'] = format('sandbox-notice-testcases-run
cfg['sandbox-notice-testcases-run-link-display'] = format('sandbox-notice-testcas

-- cfg['sandbox-category']
-- A category to add to all template sandboxes.
cfg['sandbox-category'] = 'Template sandboxes'

-----
-- Start box configuration
-----

-- cfg['documentation-icon-wikitext']
-- The wikitext for the icon shown at the top of the template.
cfg['documentation-icon-wikitext'] = '[[File:Test Template Info-Icon - Version (2

-----
-- Link box (end box) configuration
-----

-- cfg['transcluded-from-blurb']
```



```
-- Notice displayed when the docs are transcluded from another page. $1 is a wiki
cfg['transcluded-from-blurb'] = format('transcluded-from-blurb')

--[
-- cfg['create-module-doc-blurb']
-- Notice displayed in the module namespace when the documentation subpage does r
-- $1 is a link to create the documentation page with the preload cfg['module-pre
-- display cfg['create-link-display'].
--]
cfg['create-module-doc-blurb'] = format('create-module-doc-blurb')

-----
-- Experiment blurb configuration
-----

--[
-- cfg['experiment-blurb-template']
-- cfg['experiment-blurb-module']
-- The experiment blurb is the text inviting editors to experiment in sandbox and
-- It is only shown in the template and module namespaces. With the default Engl
-- might look like this:
--
-- Editors can experiment in this template's sandbox (edit | diff) and testcases
--
-- In this example, "sandbox", "edit", "diff", "testcases", and "edit" would all
--
-- There are two versions, cfg['experiment-blurb-template'] and cfg['experiment-l
-- on what namespace we are in.
--
-- Parameters:
--
-- $1 is a link to the sandbox page. If the sandbox exists, it is in the followi
--
--     cfg['sandbox-link-display'] (cfg['sandbox-edit-link-display'] | cfg['compa
--
-- If the sandbox doesn't exist, it is in the format:
--
--     cfg['sandbox-link-display'] (cfg['sandbox-create-link-display'] | cfg['mir
--
-- The link for cfg['sandbox-create-link-display'] link preloads the page with c
-- or cfg['module-sandbox-preload'], depending on the current namespace. The link
-- loads a default edit summary of cfg['mirror-edit-summary'].
--
-- $2 is a link to the test cases page. If the test cases page exists, it is in t
--
--     cfg['testcases-link-display'] (cfg['testcases-edit-link-display'])
--
-- If the test cases page doesn't exist, it is in the format:
--
--     cfg['testcases-link-display'] (cfg['testcases-create-link-display'])
--
-- If the test cases page doesn't exist, the link for cfg['testcases-create-link
-- page with cfg['template-testcases-preload'] or cfg['module-testcases-preload']
-- namespace.
--]
cfg['experiment-blurb-template'] = format('experiment-blurb-template')
cfg['experiment-blurb-module'] = format('experiment-blurb-module')

-----
-- Sandbox link configuration
-----

-- cfg['sandbox-subpage']
-- The name of the template subpage typically used for sandboxes.
```



```
cfg['sandbox-subpage'] = 'sandbox'

-- cfg['template-sandbox-preload']
-- Preload file for template sandbox pages.
cfg['template-sandbox-preload'] = 'Template:Documentation/preload-sandbox'

-- cfg['module-sandbox-preload']
-- Preload file for Lua module sandbox pages.
cfg['module-sandbox-preload'] = 'Template:Documentation/preload-module-sandbox'

-- cfg['sandbox-link-display']
-- The text to display for "sandbox" links.
cfg['sandbox-link-display'] = format('sandbox-link-display')

-- cfg['sandbox-edit-link-display']
-- The text to display for sandbox "edit" links.
cfg['sandbox-edit-link-display'] = format('sandbox-edit-link-display')

-- cfg['sandbox-create-link-display']
-- The text to display for sandbox "create" links.
cfg['sandbox-create-link-display'] = format('sandbox-create-link-display')

-- cfg['compare-link-display']
-- The text to display for "compare" links.
cfg['compare-link-display'] = format('compare-link-display')

-- cfg['mirror-edit-summary']
-- The default edit summary to use when a user clicks the "mirror" link. $1 is a
-- template page.
cfg['mirror-edit-summary'] = 'Create sandbox version of $1'

-- cfg['mirror-link-display']
-- The text to display for "mirror" links.
cfg['mirror-link-display'] = format('mirror-link-display')

-- cfg['mirror-link-preload']
-- The page to preload when a user clicks the "mirror" link.
cfg['mirror-link-preload'] = 'Template:Documentation/mirror'

-----
-- Test cases link configuration
-----

-- cfg['testcases-subpage']
-- The name of the template subpage typically used for test cases.
cfg['testcases-subpage'] = 'testcases'

-- cfg['template-testcases-preload']
-- Preload file for template test cases pages.
cfg['template-testcases-preload'] = 'Template:Documentation/preload-testcases'

-- cfg['module-testcases-preload']
-- Preload file for Lua module test cases pages.
cfg['module-testcases-preload'] = 'Template:Documentation/preload-module-testcases'

-- cfg['testcases-link-display']
-- The text to display for "testcases" links.
cfg['testcases-link-display'] = format('testcases-link-display')

-- cfg['testcases-edit-link-display']
-- The text to display for test cases "edit" links.
cfg['testcases-edit-link-display'] = format('testcases-edit-link-display')

-- cfg['testcases-create-link-display']
```



```
-- The text to display for test cases "create" links.
cfg['testcases-create-link-display'] = format('testcases-create-link-display')

-----

-- Add categories blurb configuration
-----

--[[
-- cfg['add-categories-blurb']
-- Text to direct users to add categories to the /doc subpage. Not used if the "
-- "docname fed" arguments are set, as then it is not clear where to add the cate
-- link to the /doc subpage with a display value of cfg['doc-link-display'].
--]]
cfg['add-categories-blurb'] = format('add-categories-blurb')

-- cfg['doc-link-display']
-- The text to display when linking to the /doc subpage.
cfg['doc-link-display'] = '/doc'

-----

-- Subpages link configuration
-----

--[[
-- cfg['subpages-blurb']
-- The "Subpages of this template" blurb. $1 is a link to the main template's sub
-- display value of cfg['subpages-link-display']. In the English version this bl
-- the link followed by a period, and the link display provides the actual text.
--]]
cfg['subpages-blurb'] = format('subpages-blurb')

--[[
-- cfg['subpages-link-display']
-- The text to display for the "subpages of this page" link. $1 is cfg['template
-- cfg['module-pagetype'] or cfg['default-pagetype'], depending on whether the cu
-- the template namespace, the module namespace, or another namespace.
--]]
cfg['subpages-link-display'] = format('subpages-link-display')

-- cfg['template-pagetype']
-- The pagetype to display for template pages.
cfg['template-pagetype'] = format('template-pagetype')

-- cfg['module-pagetype']
-- The pagetype to display for Lua module pages.
cfg['module-pagetype'] = format('module-pagetype')

-- cfg['default-pagetype']
-- The pagetype to display for pages other than templates or Lua modules.
cfg['default-pagetype'] = format('default-pagetype')

-----

-- Doc link configuration
-----

-- cfg['doc-subpage']
-- The name of the subpage typically used for documentation pages.
cfg['doc-subpage'] = 'doc'

-- cfg['file-docpage-preload']
-- Preload file for documentation page in the file namespace.
cfg['file-docpage-preload'] = 'Template:Documentation/preload-fileSPACE'

-- cfg['docpage-preload']
```



```
-- Preload file for template documentation pages in all namespaces.
cfg['docpage-preload'] = 'Template:Documentation/preload'

-- cfg['module-preload']
-- Preload file for Lua module documentation pages.
cfg['module-preload'] = 'Template:Documentation/preload-module-doc'

-----

-- Print version configuration
-----

-- cfg['print-subpage']
-- The name of the template subpage used for print versions.
cfg['print-subpage'] = 'Print'

-- cfg['print-link-display']
-- The text to display when linking to the /Print subpage.
cfg['print-link-display'] = '/Print'

-- cfg['print-blurb']
-- Text to display if a /Print subpage exists. $1 is a link to the subpage with a
cfg['print-blurb'] = format('print-blurb')

-- cfg['display-print-category']
-- Set to true to enable output of cfg['print-category'] if a /Print subpage exists.
-- This should be a boolean value (either true or false).
cfg['display-print-category'] = true

-- cfg['print-category']
-- Category to output if cfg['display-print-category'] is set to true, and a /Print
cfg['print-category'] = 'Templates with print versions'

-----

-- HTML and CSS configuration
-----

-- cfg['main-div-id']
-- The "id" attribute of the main HTML "div" tag.
cfg['main-div-id'] = 'template-documentation'

-- cfg['main-div-classes']
-- The CSS classes added to the main HTML "div" tag.
cfg['main-div-class'] = 'ts-doc-doc'
cfg['header-div-class'] = 'ts-doc-header'
cfg['heading-div-class'] = 'ts-doc-heading'
cfg['content-div-class'] = 'ts-doc-content'
cfg['footer-div-class'] = 'ts-doc-footer plainlinks'

cfg['sandbox-class'] = 'ts-doc-sandbox'

-- cfg['start-box-linkclasses']
-- The CSS classes used for the [view][edit][history] or [create] links in the start box.
cfg['start-box-linkclasses'] = 'ts-tlinks-tlinks mw-editsection-like plainlinks'

-- cfg['start-box-link-id']
-- The HTML "id" attribute for the links in the start box.
cfg['start-box-link-id'] = 'doc_editlinks'

-----

-- Tracking category configuration
-----

-- cfg['display-strange-usage-category']
-- Set to true to enable output of cfg['strange-usage-category'] if the module is
```



```
-- or a /testcases subpage. This should be a boolean value (either true or false)
cfg['display-strange-usage-category'] = true

-- cfg['strange-usage-category']
-- Category to output if cfg['display-strange-usage-category'] is set to true and
-- /doc subpage or a /testcases subpage.
cfg['strange-usage-category'] = 'Wikipedia pages with strange ((documentation))'

--[
-----
-- End configuration
--
-- Don't edit anything below this line.
-----
--]]

return cfg
```



Modul:Documentation

Vorlage:Lua

This module displays a blue box containing documentation for [templates](#), [Lua modules](#), or other pages. The [Vorlage:TI](#) template invokes it.

Normal usage

For most uses, you should use the [Vorlage:TI](#) template; please see that template's page for its usage instructions and parameters.

Use in other modules

To use this module from another Lua module, first load it with `require`:

```
local documentation = require('Module:Documentation').main
```

Then you can simply call it using a table of arguments.

```
documentation{content = 'Some documentation', ['link box'] = 'My custom link box'}
```

Please refer to the [template documentation](#) for usage instructions and a list of parameters.

Porting to other wikis

The module has a configuration file at [Module:Documentation/config](#) which is intended to allow easy translation and porting to other wikis. Please see the code comments in the config page for instructions. If you have any questions, or you need a feature which is not currently implemented, please leave a message at [Template talk:Documentation](#) to get the attention of a developer.

The messages that need to be customized to display a documentation template/module at the top of module pages are [MediaWiki:Scribunto-doc-page-show](#) and [MediaWiki:Scribunto-doc-page-does-not-exist](#).

```
-- This module implements {{documentation}}.
-- Get required modules.
local getArgs = require('Module:Arguments').getArgs
local messageBox = require('Module:Message box')

-- Get the config table.
local cfg = mw.loadData('Module:Documentation/config')
local i18n = mw.loadData('Module:Documentation/i18n')
local p = {}

-- Often-used functions.
```

```
local ugsub = mw.uststring.gsub

-----
-- Helper functions
--
-- These are defined as local functions, but are made available in the p
-- table for testing purposes.
-----

local function message(cfgKey, valArray, expectType)
  --[[
  -- Gets a message from the cfg table and formats it if appropriate.
  -- The function raises an error if the value from the cfg table is not
  -- of the type expectType. The default type for expectType is 'string'.
  -- If the table valArray is present, strings such as $1, $2 etc. in the
  -- message are substituted with values from the table keys [1], [2] etc.
  -- For example, if the message "foo-message" had the value 'Foo $2 bar $1'
  -- message('foo-message', {'baz', 'qux'}) would return "Foo qux bar baz."
  --]]
  local msg = cfg[cfgKey]
  expectType = expectType or 'string'
  if type(msg) ~= expectType then
    error(require('Module:TNT').format('I18n/Documentation', 'cfg-err'))
  end
  if not valArray then
    return msg
  end

  local function getMessageVal(match)
    match = tonumber(match)
    return valArray[match] or error(require('Module:TNT').format('I18n/Documentation', 'cfg-err'))
  end

  local ret = ugsub(msg, '{{$[1-9][0-9]*}', getMessageVal)
  return ret
end

p.message = message

local function makeWikilink(page, display)
  if display then
    return mw.uststring.format('[[%s|%s]]', page, display)
  else
    return mw.uststring.format('[[%s]]', page)
  end
end

p.makeWikilink = makeWikilink

local function makeCategoryLink(cat, sort)
  local catns = mw.site.namespaces[14].name
  return makeWikilink(catns .. ':' .. cat, sort)
end

p.makeCategoryLink = makeCategoryLink

local function makeUrlLink(url, display)
  return mw.uststring.format('[%s %s]', url, display)
end

p.makeUrlLink = makeUrlLink

local function makeToolbar(...)
  local ret = {}
end
```

```
        local lim = select('#', ...)
        if lim < 1 then
            return nil
        end
        for i = 1, lim do
            ret[#ret + 1] = select(i, ...)
        end
        return '<small style="font-style: normal;">(' .. table.concat(ret, ' &#12
end

p.makeToolbar = makeToolbar

-----
-- Argument processing
-----

local function makeInvokeFunc(funcName)
    return function (frame)
        local args = getArgs(frame, {
            valueFunc = function (key, value)
                if type(value) == 'string' then
                    value = value:match('^%s*(.)%s*$') -- Re
                    if key == 'heading' or value ~= '' then
                        return value
                    else
                        return nil
                    end
                else
                    return value
                end
            end
        })
        return p[funcName](args)
    end
end

-----
-- Load TemplateStyles
-----

p.main = function(frame)
    local parent = frame.getParent(frame)
    local output = p._main(parent.args)
    return frame:extensionTag{ name='templatestyles', args = { src= message(
end

-----
-- Main function
-----

function p._main(args)
    --[[
    -- This function defines logic flow for the module.
    -- @args - table of arguments passed by the user
    --
    -- Messages:
    -- 'main-div-id' --> 'template-documentation'
    -- 'main-div-classes' --> 'template-documentation iezoomfix'
    --]]
    local env = p.getEnvironment(args)
    local root = mw.html.create()
    root
        :wikitext(p.protectionTemplate(env))
        :wikitext(p.sandboxNotice(args, env))
end
```

```
-- This div tag is from {{documentation/start box}}, but moving
-- so that we don't have to worry about unclosed tags.
:tag('div')
  :attr('id', message('main-div-id'))
  :addClass(message('main-div-class'))
  :wikitext(p._startBox(args, env))
  :wikitext(p._content(args, env))
  :done()
  :wikitext(p._endBox(args, env))
  :wikitext(p._addTrackingCategories(env))
return tostring(root)
end

-----
-- Environment settings
-----

function p.getEnvironment(args)
  --[[
  -- Returns a table with information about the environment, including title
  -- path-related data.
  -- @args - table of arguments passed by the user
  --
  -- Title objects include:
  -- env.title - the page we are making documentation for (usually the current
  -- env.templateTitle - the template (or module, file, etc.)
  -- env.docTitle - the /doc subpage.
  -- env.sandboxTitle - the /sandbox subpage.
  -- env.testcasesTitle - the /testcases subpage.
  -- env.printTitle - the print version of the template, located at the /Print
  --
  -- Data includes:
  -- env.protectionLevels - the protection levels table of the title object
  -- env.subjectSpace - the number of the title's subject namespace.
  -- env.docSpace - the number of the namespace the title puts its document
  -- env.docpageBase - the text of the base page of the /doc, /sandbox and
  -- env.compareUrl - URL of the Special:ComparePages page comparing the sa
  --
  -- All table lookups are passed through pcall so that errors are caught.
  -- returned will be nil.
  --]]

  local env, envFuncs = {}, {}

  -- Set up the metatable. If triggered we call the corresponding function
  -- returned by that function is memoized in the env table so that we don't
  -- more than once. (Nils won't be memoized.)
  setmetatable(env, {
    __index = function (t, key)
      local envFunc = envFuncs[key]
      if envFunc then
        local success, val = pcall(envFunc)
        if success then
          env[key] = val -- Memoise the value.
          return val
        end
      end
      return nil
    end
  })

  function envFuncs.title()
    -- The title object for the current page, or a test page passed via
    local title
  end
end
```

```
        local titleArg = args.page
        if titleArg then
            title = mw.title.new(titleArg)
        else
            title = mw.title.getCurrentTitle()
        end
        return title
    end

    function envFuncs.templateTitle()
        --[[
        -- The template (or module, etc.) title object.
        -- Messages:
        -- 'sandbox-subpage' --> 'sandbox'
        -- 'testcases-subpage' --> 'testcases'
        --]]
        local subjectSpace = env.subjectSpace
        local title = env.title
        local subpage = title.subpageText
        if subpage == message('sandbox-subpage') or subpage == message('testcases-subpage') then
            return mw.title.makeTitle(subjectSpace, title.baseText)
        else
            return mw.title.makeTitle(subjectSpace, title.text)
        end
    end

    function envFuncs.docTitle()
        --[[
        -- Title object of the /doc subpage.
        -- Messages:
        -- 'doc-subpage' --> 'doc'
        --]]
        local title = env.title
        local docname = args[1] -- User-specified doc page.
        local docpage
        if docname then
            docpage = docname
        else
            docpage = env.docpageBase .. '/' .. message('doc-subpage')
        end
        return mw.title.new(docpage)
    end

    function envFuncs.sandboxTitle()
        --[[
        -- Title object for the /sandbox subpage.
        -- Messages:
        -- 'sandbox-subpage' --> 'sandbox'
        --]]
        return mw.title.new(env.docpageBase .. '/' .. message('sandbox-subpage'))
    end

    function envFuncs.testcasesTitle()
        --[[
        -- Title object for the /testcases subpage.
        -- Messages:
        -- 'testcases-subpage' --> 'testcases'
        --]]
        return mw.title.new(env.docpageBase .. '/' .. message('testcases-subpage'))
    end

    function envFuncs.printTitle()
        --[[
        -- Title object for the /Print subpage.
        --]]
    end
```

```
        -- Messages:
        -- 'print-subpage' --> 'Print'
        --]]
        return env.templateTitle:subPageTitle(message('print-subpage'))
    end

    function envFuncs.protectionLevels()
        -- The protection levels table of the title object.
        return env.title.protectionLevels
    end

    function envFuncs.subjectSpace()
        -- The subject namespace number.
        return mw.site.namespaces[env.title.namespace].subject.id
    end

    function envFuncs.docSpace()
        -- The documentation namespace number. For most namespaces this is
        -- subject namespace. However, pages in the Article, File, MediaWiki
        -- namespaces must have their /doc, /sandbox and /testcases pages
        local subjectSpace = env.subjectSpace
        if subjectSpace == 0 or subjectSpace == 6 or subjectSpace == 8 or
            return subjectSpace + 1
        else
            return subjectSpace
        end
    end

    function envFuncs.docpageBase()
        -- The base page of the /doc, /sandbox, and /testcases subpages.
        -- For some namespaces this is the talk page, rather than the template
        local templateTitle = env.templateTitle
        local docSpace = env.docSpace
        local docSpaceText = mw.site.namespaces[docSpace].name
        -- Assemble the link. docSpace is never the main namespace, so we
        return docSpaceText .. ':' .. templateTitle.text
    end

    function envFuncs.compareUrl()
        -- Diff link between the sandbox and the main template using [[Special:ComparePages]]
        local templateTitle = env.templateTitle
        local sandboxTitle = env.sandboxTitle
        if templateTitle.exists and sandboxTitle.exists then
            local compareUrl = mw.uri.fullUrl(
                'Special:ComparePages',
                {page1 = templateTitle.prefixedText, page2 = sandboxTitle.prefixedText}
            )
            return tostring(compareUrl)
        else
            return nil
        end
    end

    return env
end

-----
-- Auxiliary templates
-----

function p.sandboxNotice(args, env)
    -- [[
    -- Generates a sandbox notice for display above sandbox pages.
    -- @args - a table of arguments passed by the user
end
```

```
-- @env - environment table containing title objects, etc., generated with
--
-- Messages:
-- 'sandbox-notice-image' --> '[[Image:Sandbox.svg|50px|alt=|link=]]'
-- 'sandbox-notice-blurb' --> 'This is the $1 for $2.'
-- 'sandbox-notice-diff-blurb' --> 'This is the $1 for $2 ($3).'
-- 'sandbox-notice-pagetype-template' --> '[[w:Wikipedia:Template test case
-- 'sandbox-notice-pagetype-module' --> '[[w:Wikipedia:Template test case
-- 'sandbox-notice-pagetype-other' --> 'sandbox page'
-- 'sandbox-notice-compare-link-display' --> 'diff'
-- 'sandbox-notice-testcases-blurb' --> 'See also the companion subpage for
-- 'sandbox-notice-testcases-link-display' --> 'test cases'
-- 'sandbox-category' --> 'Template sandboxes'
--]=]
local title = env.title
local sandboxTitle = env.sandboxTitle
local templateTitle = env.templateTitle
local subjectSpace = env.subjectSpace
if not (subjectSpace and title and sandboxTitle and templateTitle and mw)
    return nil
end
-- Build the table of arguments to pass to {{ombox}}. We need just two for
local omargs = {}
omargs.image = message('sandbox-notice-image')
-- Get the text. We start with the opening blurb, which is something like
-- "This is the template sandbox for [[Template:Foo]] (diff)."
```



```
        omargs.text = text
        omargs.class = message('sandbox-class')
        local ret = '<div style="clear: both;"></div>'
        ret = ret .. messageBox.main('ombox', omargs)
        return ret
end

function p.protectionTemplate(env)
    -- Generates the padlock icon in the top right.
    -- @env - environment table containing title objects, etc., generated with
    -- Messages:
    -- 'protection-template' --> 'pp-template'
    -- 'protection-template-args' --> {docusage = 'yes'}
    local title = env.title
    local protectionLevels
    local protectionTemplate = message('protection-template')
    local namespace = title.namespace
    if not (protectionTemplate and (namespace == 10 or namespace == 828)) then
        -- Don't display the protection template if we are not in the top
        return nil
    end
    protectionLevels = env.protectionLevels
    if not protectionLevels then
        return nil
    end
    local editLevels = protectionLevels.edit
    local moveLevels = protectionLevels.move
    if moveLevels and moveLevels[1] == 'sysop' or editLevels and editLevels[1] == 'sysop' then
        -- The page is full-move protected, or full, template, or semi-protected
        local frame = mw.getCurrentFrame()
        return frame:expandTemplate{title = protectionTemplate, args = messageBox.args}
    else
        return nil
    end
end

end

-----
-- Start box
-----

p.startBox = makeInvokeFunc('_startBox')

function p._startBox(args, env)
    --[[
    -- This function generates the start box.
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with
    --
    -- The actual work is done by p.makeStartBoxLinksData and p.renderStartBoxLinks
    -- the [view] [edit] [history] [purge] links, and by p.makeStartBoxData and p.renderStartBoxData
    -- which generate the box HTML.
    --]]
    env = env or p.getEnvironment(args)
    local links
    local content = args.content
    if not content then
        -- No need to include the links if the documentation is on the top
        local linksData = p.makeStartBoxLinksData(args, env)
        if linksData then
            links = p.renderStartBoxLinks(linksData)
        end
    end
    end
    -- Generate the start box html.
    local data = p.makeStartBoxData(args, env, links)
end
```

```
        if data then
            return p.renderStartBox(data)
        else
            -- User specified no heading.
            return nil
        end
    end
end

function p.makeStartBoxLinksData(args, env)
    --[[
    -- Does initial processing of data to make the [view] [edit] [history] [purge] or [create] links from the
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with p.makeStartBoxLinksData
    --
    -- Messages:
    -- 'view-link-display' --> 'view'
    -- 'edit-link-display' --> 'edit'
    -- 'history-link-display' --> 'history'
    -- 'purge-link-display' --> 'purge'
    -- 'file-docpage-preload' --> 'Template:Documentation/preload-file-space'
    -- 'module-preload' --> 'Template:Documentation/preload-module-doc'
    -- 'docpage-preload' --> 'Template:Documentation/preload'
    -- 'create-link-display' --> 'create'
    --]]
    local subjectSpace = env.subjectSpace
    local title = env.title
    local docTitle = env.docTitle
    if not title or not docTitle then
        return nil
    end
    if docTitle.isRedirect then
        docTitle = docTitle.redirectTarget
    end

    local data = {}
    data.title = title
    data.docTitle = docTitle
    -- View, display, edit, and purge links if /doc exists.
    data.viewLinkDisplay = i18n['view-link-display']
    data.editLinkDisplay = i18n['edit-link-display']
    data.historyLinkDisplay = i18n['history-link-display']
    data.purgeLinkDisplay = i18n['purge-link-display']
    -- Create link if /doc doesn't exist.
    local preload = args.preload
    if not preload then
        if subjectSpace == 6 then -- File namespace
            preload = message('file-docpage-preload')
        elseif subjectSpace == 828 then -- Module namespace
            preload = message('module-preload')
        else
            preload = message('docpage-preload')
        end
    end
    data.preload = preload
    data.createLinkDisplay = i18n['create-link-display']
    return data
end

function p.renderStartBoxLinks(data)
    --[[
    -- Generates the [view][edit][history][purge] or [create] links from the
    -- @data - a table of data generated by p.makeStartBoxLinksData
    --]]
end
```

```
local function escapeBrackets(s)
    -- Escapes square brackets with HTML entities.
    s = s:gsub('%[', '&#91;') -- Replace square brackets with HTML entities
    s = s:gsub('%]', '&#93;')
    return s
end

local ret
local docTitle = data.docTitle
local title = data.title
if docTitle.exists then
    local viewLink = makeWikilink(docTitle.prefixedText, data.viewLink)
    local editLink = makeUrlLink(docTitle.fullUrl{action = 'edit'}, data.viewLink)
    local historyLink = makeUrlLink(docTitle.fullUrl{action = 'history'}, data.viewLink)
    local purgeLink = makeUrlLink(title.fullUrl{action = 'purge'}, data.viewLink)
    ret = "[%s] [%s] [%s] [%s]"
    ret = escapeBrackets(ret)
    ret = mw.ustring.format(ret, viewLink, editLink, historyLink, purgeLink)
else
    local createLink = makeUrlLink(docTitle.fullUrl{action = 'edit'}, data.viewLink)
    ret = "[%s]"
    ret = escapeBrackets(ret)
    ret = mw.ustring.format(ret, createLink)
end
return ret
end

function p.makeStartBoxData(args, env, links)
    --=[
    -- Does initial processing of data to pass to the start-box render function
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with mw.lua
    -- @links - a string containing the [view][edit][history][purge] links -
    --
    -- Messages:
    -- 'documentation-icon-wikitext' --> '[[File:Test Template Info-Icon - Vector Logo.png|100px|link=]]'
    -- 'template-namespace-heading' --> 'Template documentation'
    -- 'module-namespace-heading' --> 'Module documentation'
    -- 'file-namespace-heading' --> 'Summary'
    -- 'other-namespaces-heading' --> 'Documentation'
    -- 'start-box-linkclasses' --> 'mw-editsection-like plainlinks'
    -- 'start-box-link-id' --> 'doc_editlinks'
    -- 'testcases-create-link-display' --> 'create'
    --]=]
    local subjectSpace = env.subjectSpace
    if not subjectSpace then
        -- Default to an "other namespaces" namespace, so that we get at least one link
        -- if an error occurs.
        subjectSpace = 2
    end
    end
    local data = {}

    -- Heading
    local heading = args.heading -- Blank values are not removed.
    if heading == '' then
        -- Don't display the start box if the heading arg is defined but empty
        return nil
    end
    end
    if heading then
        data.heading = heading
    elseif subjectSpace == 10 then -- Template namespace
        data.heading = i18n['template-namespace-heading']
    elseif subjectSpace == 828 then -- Module namespace
        data.heading = i18n['module-namespace-heading']
    end
end
```

```
elseif subjectSpace == 6 then -- File namespace
    data.heading = i18n['file-namespace-heading']
else
    data.heading = i18n['other-namespaces-heading']
end

-- Data for the [view][edit][history][purge] or [create] links.
if links then
    data.linksClass = message('start-box-linkclasses')
    data.linksId = message('start-box-link-id')
    data.links = links
end

return data
end

function p.renderStartBox(data)
-- Renders the start box html.
-- @data - a table of data generated by p.makeStartBoxData.
local sbox = mw.html.create('div')
sbox
    :addClass(message('header-div-class'))
    :tag('div')
        :addClass(message('heading-div-class'))
        :wikitext(data.heading)
local links = data.links
if links then
    sbox
        :tag('div')
            :addClass(data.linksClass)
            :attr('id', data.linksId)
            :wikitext(links)
end
return tostring(sbox)
end

-----
-- Documentation content
-----

p.content = makeInvokeFunc('_content')

function p._content(args, env)
-- Displays the documentation contents
-- @args - a table of arguments passed by the user
-- @env - environment table containing title objects, etc., generated with
env = env or p.getEnvironment(args)
local docTitle = env.docTitle
local content = args.content
if not content and docTitle and docTitle.exists then
    content = args._content or mw.getCurrentFrame():expandTemplate{title=docTitle}
end
-- The line breaks below are necessary so that "=== Headings ===" at the
-- of docs are interpreted correctly.
local cbox = mw.html.create('div')
cbox
    :addClass(message('content-div-class'))
    :wikitext('\n' .. (content or '') .. '\n')
return tostring(cbox)
end

p.contentTitle = makeInvokeFunc('_contentTitle')

function p._contentTitle(args, env)
```



```
    env = env or p.getEnvironment(args)
    local docTitle = env.docTitle
    if not args.content and docTitle and docTitle.exists then
        return docTitle.prefixedText
    else
        return ''
    end
end

-----
-- End box
-----

p.endBox = makeInvokeFunc('_endBox')

function p._endBox(args, env)
    --[=[
    -- This function generates the end box (also known as the link box).
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with
    --]=]

    -- Get environment data.
    env = env or p.getEnvironment(args)
    local subjectSpace = env.subjectSpace
    local docTitle = env.docTitle
    if not subjectSpace or not docTitle then
        return nil
    end

    -- Check whether we should output the end box at all. Add the end
    -- box by default if the documentation exists or if we are in the
    -- user, module or template namespaces.
    local linkBox = args['link box']
    if linkBox == 'off'
    or not (
        docTitle.exists
        or subjectSpace == 2
        or subjectSpace == 828
        or subjectSpace == 10
    )
    then
        return nil
    end

    -- Assemble the footer text field.
    local text = ''
    if linkBox then
        text = text .. linkBox
    else
        text = text .. (p.makeDocPageBlurb(args, env) or '') -- "This doc
        if subjectSpace == 2 or subjectSpace == 10 or subjectSpace == 828
        -- We are in the user, template or module namespaces.
        -- Add sandbox and testcases links.
        -- "Editors can experiment in this template's sandbox and
        text = text .. (p.makeExperimentBlurb(args, env) or '')
        text = text .. '<br />'
        if not args.content and not args[1] then
            -- "Please add categories to the /doc subpage."
            -- Don't show this message with inline docs or with
            -- as then it is unclear where to add the categories
            text = text .. (p.makeCategoriesBlurb(args, env) or '')
        end
        text = text .. ' ' .. (p.makeSubpagesBlurb(args, env) or '')
    end
end
```

```

        local printBlurb = p.makePrintBlurb(args, env) -- Two-line
        if printBlurb then
            text = text .. '<br />' .. printBlurb
        end
    end
end

local ebox = mw.html.create('div')
ebox
    :addClass(message('footer-div-class'))
    :wikitext(text)
return tostring(ebox)
end

function p.makeDocPageBlurb(args, env)
--[[
-- Makes the blurb "This documentation is transcluded from [[Template:Foot
-- @args - a table of arguments passed by the user
-- @env - environment table containing title objects, etc., generated with
--
-- Messages:
-- 'edit-link-display' --> 'edit'
-- 'history-link-display' --> 'history'
-- 'transcluded-from-blurb' -->
-- 'The above [[w:Wikipedia:Template documentation|documentation]]
-- is [[w:Wikipedia:Transclusion|transcluded]] from $1.'
-- 'module-preload' --> 'Template:Documentation/preload-module-doc'
-- 'create-link-display' --> 'create'
-- 'create-module-doc-blurb' -->
-- 'You might want to $1 a documentation page for this [[w:Wikipedia:Lua
--]]]
local docTitle = env.docTitle
if not docTitle or args.content then
    return nil
end
local ret
if docTitle.exists then
    -- /doc exists; link to it.
    local docLink = makeWikilink(docTitle.prefixedText)
    local editUrl = docTitle.fullUrl{action = 'edit'}
    local editDisplay = i18n['edit-link-display']
    local editLink = makeUrlLink(editUrl, editDisplay)
    local historyUrl = docTitle.fullUrl{action = 'history'}
    local historyDisplay = i18n['history-link-display']
    local historyLink = makeUrlLink(historyUrl, historyDisplay)
    ret = message('transcluded-from-blurb', {docLink})
        ..
        .. makeToolbar(editLink, historyLink)
        .. '<br />'
elseif env.subjectSpace == 828 then
    -- /doc does not exist; ask to create it.
    local createUrl = docTitle.fullUrl{action = 'edit', preload = mes
    local createDisplay = i18n['create-link-display']
    local createLink = makeUrlLink(createUrl, createDisplay)
    ret = message('create-module-doc-blurb', {createLink})
        .. '<br />'
end
return ret
end

function p.makeExperimentBlurb(args, env)
--[[
-- Renders the text "Editors can experiment in this template's sandbox (e
-- @args - a table of arguments passed by the user
```

```
-- @env - environment table containing title objects, etc., generated with
--
-- Messages:
-- 'sandbox-link-display' --> 'sandbox'
-- 'sandbox-edit-link-display' --> 'edit'
-- 'compare-link-display' --> 'diff'
-- 'module-sandbox-preload' --> 'Template:Documentation/preload-module-sandbox'
-- 'template-sandbox-preload' --> 'Template:Documentation/preload-sandbox'
-- 'sandbox-create-link-display' --> 'create'
-- 'mirror-edit-summary' --> 'Create sandbox version of $1'
-- 'mirror-link-display' --> 'mirror'
-- 'mirror-link-preload' --> 'Template:Documentation/mirror'
-- 'sandbox-link-display' --> 'sandbox'
-- 'testcases-link-display' --> 'testcases'
-- 'testcases-edit-link-display' --> 'edit'
-- 'template-sandbox-preload' --> 'Template:Documentation/preload-sandbox'
-- 'testcases-create-link-display' --> 'create'
-- 'testcases-link-display' --> 'testcases'
-- 'testcases-edit-link-display' --> 'edit'
-- 'module-testcases-preload' --> 'Template:Documentation/preload-module-testcases'
-- 'template-testcases-preload' --> 'Template:Documentation/preload-testcases'
-- 'experiment-blurb-module' --> 'Editors can experiment in this module's
-- 'experiment-blurb-template' --> 'Editors can experiment in this template'
--]]
local subjectSpace = env.subjectSpace
local templateTitle = env.templateTitle
local sandboxTitle = env.sandboxTitle
local testcasesTitle = env.testcasesTitle
local templatePage = templateTitle.prefixedText
if not subjectSpace or not templateTitle or not sandboxTitle or not testcasesTitle
    return nil
end
-- Make links.
local sandboxLinks, testcasesLinks
if sandboxTitle.exists then
    local sandboxPage = sandboxTitle.prefixedText
    local sandboxDisplay = message('sandbox-link-display')
    local sandboxLink = makeWikilink(sandboxPage, sandboxDisplay)
    local sandboxEditUrl = sandboxTitle.fullUrl{action = 'edit'}
    local sandboxEditDisplay = message('sandbox-edit-link-display')
    local sandboxEditLink = makeUrlLink(sandboxEditUrl, sandboxEditDisplay)
    local compareUrl = env.compareUrl
    local compareLink
    if compareUrl then
        local compareDisplay = message('compare-link-display')
        compareLink = makeUrlLink(compareUrl, compareDisplay)
    end
    sandboxLinks = sandboxLink .. ' ' .. makeToolbar(sandboxEditLink, compareLink)
else
    local sandboxPreload
    if subjectSpace == 828 then
        sandboxPreload = message('module-sandbox-preload')
    else
        sandboxPreload = message('template-sandbox-preload')
    end
    local sandboxcreateUrl = sandboxTitle.fullUrl{action = 'edit', preload = sandboxPreload}
    local sandboxCreateDisplay = message('sandbox-create-link-display')
    local sandboxCreateLink = makeUrlLink(sandboxcreateUrl, sandboxCreateDisplay)
    local mirrorSummary = message('mirror-edit-summary', {makeWikilink(sandboxTitle, sandboxTitle)})
    local mirrorPreload = message('mirror-link-preload')
    local mirrorUrl = sandboxTitle.fullUrl{action = 'edit', preload = mirrorPreload}
    local mirrorDisplay = message('mirror-link-display')
    local mirrorLink = makeUrlLink(mirrorUrl, mirrorDisplay)
    sandboxLinks = message('sandbox-link-display') .. ' ' .. makeToolbar(sandboxCreateLink, mirrorLink)
end
```

```
end
if testcasesTitle.exists then
    local testcasesPage = testcasesTitle.prefixedText
    local testcasesDisplay = message('testcases-link-display')
    local testcasesLink = makeWikilink(testcasesPage, testcasesDisplay)
    local testcasesEditUrl = testcasesTitle:fullUrl{action = 'edit'}
    local testcasesEditDisplay = message('testcases-edit-link-display')
    local testcasesEditLink = makeUrlLink(testcasesEditUrl, testcasesEditDisplay)
    testcasesLinks = testcasesLink .. ' ' .. makeToolbar(testcasesEditLink)
else
    local testcasesPreload
    if subjectSpace == 828 then
        testcasesPreload = message('module-testcases-preload')
    else
        testcasesPreload = message('template-testcases-preload')
    end
    local testcasescreateUrl = testcasesTitle:fullUrl{action = 'edit'}
    local testcasescreateDisplay = message('testcases-create-link-display')
    local testcasescreateUrlLink = makeUrlLink(testcasescreateUrl, testcasescreateDisplay)
    testcasesLinks = message('testcases-link-display') .. ' ' .. makeToolbar(testcasescreateUrlLink)
end
local messageName
if subjectSpace == 828 then
    messageName = 'experiment-blurb-module'
else
    messageName = 'experiment-blurb-template'
end
return message(messageName, {sandboxLinks, testcasesLinks})
end

function p.makeCategoriesBlurb(args, env)
    --[[
    -- Generates the text "Please add categories to the /doc subpage."
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with
    -- Messages:
    -- 'doc-link-display' --> '/doc'
    -- 'add-categories-blurb' --> 'Please add categories to the $1 subpage.'
    --]]
    local docTitle = env.docTitle
    if not docTitle then
        return nil
    end
    local docPathLink = makeWikilink(docTitle.prefixedText, message('doc-link-display'))
    return message('add-categories-blurb', {docPathLink})
end

function p.makeSubpagesBlurb(args, env)
    --[[
    -- Generates the "Subpages of this template" link.
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with
    -- Messages:
    -- 'template-pagetype' --> 'template'
    -- 'module-pagetype' --> 'module'
    -- 'default-pagetype' --> 'page'
    -- 'subpages-link-display' --> 'Subpages of this $1'
    --]]
    local subjectSpace = env.subjectSpace
    local templateTitle = env.templateTitle
    if not subjectSpace or not templateTitle then
        return nil
    end
end
```

```
    local pagetype
    if subjectSpace == 10 then
        pagetype = message('template-pagetype')
    elseif subjectSpace == 828 then
        pagetype = message('module-pagetype')
    else
        pagetype = message('default-pagetype')
    end
    local subpagesLink = makeWikilink(
        'Special:PrefixIndex/' .. templateTitle.prefixedText .. '/',
        message('subpages-link-display', {pagetype})
    )
    return message('subpages-blurb', {subpagesLink})
end

function p.makePrintBlurb(args, env)
    --[=[
    -- Generates the blurb displayed when there is a print version of the term
    -- @args - a table of arguments passed by the user
    -- @env - environment table containing title objects, etc., generated with
    --
    -- Messages:
    -- 'print-link-display' --> '/Print'
    -- 'print-blurb' --> 'A [[Help:Books/for experts#Improving the book layout
    --           .. ' of this template exists at $1.'
    --           .. ' If you make a change to this template, please update
    -- 'display-print-category' --> true
    -- 'print-category' --> 'Templates with print versions'
    --]=]
    local printTitle = env.printTitle
    if not printTitle then
        return nil
    end
    local ret
    if printTitle.exists then
        local printLink = makeWikilink(printTitle.prefixedText, message('print-link-display'))
        ret = message('print-blurb', {printLink})
        local displayPrintCategory = message('display-print-category', nil)
        if displayPrintCategory then
            ret = ret .. makeCategoryLink(message('print-category'))
        end
    end
    return ret
end

-----
-- Tracking categories
-----

function p.addTrackingCategories(env)
    --[[
    -- Check if {{documentation}} is transcluded on a /doc or /testcases page
    -- @env - environment table containing title objects, etc., generated with
    --
    -- Messages:
    -- 'display-strange-usage-category' --> true
    -- 'doc-subpage' --> 'doc'
    -- 'testcases-subpage' --> 'testcases'
    -- 'strange-usage-category' --> 'Wikipedia pages with strange ((documentation
    --
    -- /testcases pages in the module namespace are not categorised, as they
    -- {{documentation}} transcluded automatically.
    --]]
    local title = env.title
```



```
local subjectSpace = env.subjectSpace
if not title or not subjectSpace then
  return nil
end
local subpage = title.subpageText
local ret = ''
if message('display-strange-usage-category', nil, 'boolean')
  and (
    subpage == message('doc-subpage')
    or subjectSpace ~= 828 and subpage == message('testcases
  )
then
  ret = ret .. makeCategoryLink(message('strange-usage-category'))
end
return ret
end
return p
```