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# Module:Documentation

From Blue Gold Program Wiki

The printable version is no longer supported and may have rendering errors. Please update your browser bookmarks and please use the default browser print function instead.

**This Lua module is used on approximately 108,000 pages.**

**40px** To avoid major disruption and server load, any changes should be tested in the module's [/sandbox](#) or [/testcases](#) subpages, or in your own [module sandbox](#). The tested changes can be added to this page in a single edit. Consider discussing changes on the [talk page](#) before implementing them.

This module is [subject to page protection](#). It is a [highly visible module](#) in use by a very large number of pages, or is [substituted](#) very frequently. Because vandalism or mistakes would affect many pages, and even trivial editing might cause substantial load on the servers, it is [protected](#) from editing.

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

## Normal usage

For most uses, you should use the `{{{documentation}}}` 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`:

```
<syntaxhighlight lang="lua"> local documentation = require('Module:Documentation').main
</syntaxhighlight>
```

Then you can simply call it using a table of arguments. `<syntaxhighlight lang="lua"> documentation{content = 'Some documentation', ['link box'] = 'My custom link box'}`  
`</syntaxhighlight>`

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.

---

```
-- This module implements {{{documentation}}}.

-- Get required modules.
local getArgs = require('Module:Arguments').getArgs

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

local p = {}

-- Often-used functions.
local ugsub = mw.ustring.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('message: type error in message cfg.' .. cfgKey .. ' (' ..
    .. expectType .. ' expected, got ' .. type(msg) .. ')', 2)
    end
    if not valArray then
        return msg
    end

    local function getMessageVal(match)
        match = tonumber(match)
        return valArray[match] or error('message: no value found for
key $' .. match .. ' in message cfg.' .. cfgKey, 4)
    end

    return ugsub(msg, '$([1-9][0-9]*)', getMessageVal)
end

p.message = message

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

p.makeUrlLink = makeUrlLink

local function makeToolbar(...)
    local ret = {}
    local lim = select('#', ...)
    if lim < 1 then
        return nil
    end
    for i = 1, lim do
        ret[#ret + 1] = select(i, ...)
    end
    -- 'documentation-toolbar'
    return '<span class="' .. message('toolbar-class') .. '">('
        .. table.concat(ret, ' &#124; ') .. ')</span>'
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*$')
- Remove whitespace.
                if key == 'heading' or value ~= ''
then
                    return value
                else
                    return nil
                end
            else
                return value
            end
        end
    })

```

```

        return p[funcName](args)
    end
end

-----
-- Entry points
-----

function p.nonexistent(frame)
    if mw.title.getCurrentTitle().subpageText == 'testcases' then
        return frame:expandTemplate{title = 'Module test cases
notice'}
    else
        return p.main(frame)
    end
end

p.main = makeInvokeFunc('_main')

function p._main(args)
    -- [
    -- This function defines logic flow for the module.
    -- @args - table of arguments passed by the user
    -- ]
    local env = p.getEnvironment(args)
    local root = mw.html.create()
    root
        :wikitext(p._getModuleWikitext(args, env))
        :wikitext(p.protectionTemplate(env))
        :wikitext(p.sandboxNotice(args, env))
        :tag('div')
            -- 'documentation-container'
            :addClass(message('container'))
            :newline()
            :tag('div')
                -- 'documentation'
                :addClass(message('main-div-classes'))
                :newline()
                :wikitext(p._startBox(args, env))
                :wikitext(p._content(args, env))
                :tag('div')
                    -- 'documentation-clear'
                    :addClass(message('clear'))
                    :done()
                :newline()
                :done()
            :wikitext(p._endBox(args, env))
            :done()
        :wikitext(p.addTrackingCategories(env))
    -- 'Module:Documentation/styles.css'
    return mw.getCurrentFrame():extensionTag (

```

```

        'templatestyles', '', {src=cfg['templatestyles']}
    }) .. tostring(root)
end

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

function p.getEnvironment(args)
    -- [
    -- Returns a table with information about the environment, including
title
    -- objects and other namespace- or 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 title)
    -- env.templateTitle - the template (or module, file, etc.)
    -- env.docTitle - the /doc subpage.
    -- env.sandboxTitle - the /sandbox subpage.
    -- env.testcasesTitle - the /testcases subpage.
    --
    -- 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
documentation in.
    -- env.docpageBase - the text of the base page of the /doc, /sandbox
and /testcases pages, with namespace.
    -- env.compareUrl - URL of the Special:ComparePages page comparing
the sandbox with the template.
    --
    -- All table lookups are passed through pcall so that errors are
caught. If an error occurs, the value
    -- returned will be nil.
    --]]
local env, envFuncs = {}, {}

    -- Set up the metatable. If triggered we call the corresponding
function in the envFuncs table. The value
    -- returned by that function is memoized in the env table so that we
don't call any of the functions
    -- 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 with args.page.
    local title
    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.makeText(subjectSpace,
title.baseText)
    else
        return mw.title.makeText(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.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 the
        -- same as the subject namespace. However, pages in the
Article, File,
        -- MediaWiki or Category namespaces must have their /doc,
/sandbox and
        -- /testcases pages in talk space.
        local subjectSpace = env.subjectSpace
        if subjectSpace == 0 or subjectSpace == 6 or subjectSpace ==
8 or subjectSpace == 14 then
            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 page.
                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 can hardcode the colon.
                    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

---

```

p.getModuleWikitext = makeInvokeFunc('_getModuleWikitext')

function p._getModuleWikitext(args, env)
    local pageTitle = mw.title.getCurrentTitle()
    if pageTitle.contentModel == 'Scribunto' then return end
    pcall(require, pageTitle.prefixedText) -- if it fails, we don't
care
    local moduleWikitext = package.loaded["Module:Module wikitext"]
    if moduleWikitext then
        return moduleWikitext.main()
    end
end

function p.sandboxNotice(args, env)
    --[=]

```

```

-- Generates a sandbox notice for display above sandbox pages.
-- @args - a table of arguments passed by the user
-- @env - environment table containing title objects, etc., generated
with p.getEnvironment
--
-- 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' --> '[[Wikipedia:Template test
cases|template sandbox]] page'
-- 'sandbox-notice-pagetype-module' --> '[[Wikipedia:Template test
cases|module sandbox]] page'
-- 'sandbox-notice-pagetype-other' --> 'sandbox page'
-- 'sandbox-notice-compare-link-display' --> 'diff'
-- 'sandbox-notice-testcases-blurb' --> 'See also the companion
subpage for $1.'
-- '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.title.equals(title, sandboxTitle)) then
    return nil
end
-- Build the table of arguments to pass to {{ombox}}. We need just
two fields, "image" and "text".
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)."
local text = ''
local pagetype
if subjectSpace == 10 then
    pagetype = message('sandbox-notice-pagetype-template')
elseif subjectSpace == 828 then
    pagetype = message('sandbox-notice-pagetype-module')
else
    pagetype = message('sandbox-notice-pagetype-other')
end
local templateLink = makeWikilink(templateTitle.prefixedText)
local compareUrl = env.compareUrl
if compareUrl then
    local compareDisplay = message('sandbox-notice-compare-link-
display')
    local compareLink = makeUrlLink(compareUrl, compareDisplay)
    text = text .. message('sandbox-notice-diff-blurb',

```

```

{pagetype, templateLink, compareLink})
else
    text = text .. message('sandbox-notice-blurb', {pagetype,
templateLink})
end
-- Get the test cases page blurb if the page exists. This is
something like
-- "See also the companion subpage for [[Template:Foo/testcases|test
cases]]."
local testcasesTitle = env.testcasesTitle
if testcasesTitle and testcasesTitle.exists then
    if testcasesTitle.contentModel == "Scribunto" then
        local testcasesLinkDisplay = message('sandbox-notice-
testcases-link-display')
        local testcasesRunLinkDisplay = message('sandbox-
notice-testcases-run-link-display')
        local testcasesLink =
makeWikilink(testcasesTitle.prefixedText, testcasesLinkDisplay)
        local testcasesRunLink =
makeWikilink(testcasesTitle.talkPageTitle.prefixedText,
testcasesRunLinkDisplay)
        text = text .. '<br />' .. message('sandbox-notice-
testcases-run-blurb', {testcasesLink, testcasesRunLink})
    else
        local testcasesLinkDisplay = message('sandbox-notice-
testcases-link-display')
        local testcasesLink =
makeWikilink(testcasesTitle.prefixedText, testcasesLinkDisplay)
        text = text .. '<br />' .. message('sandbox-notice-
testcases-blurb', {testcasesLink})
    end
end
-- Add the sandbox to the sandbox category.
omargs.text = text .. makeCategoryLink(message('sandbox-category'))
-- 'documentation-clear'
return '<div class="" .. message("clear") .. '"></div>'
.. require('Module:Message box').main('ombox', omargs)
end

function p.protectionTemplate(env)
-- Generates the padlock icon in the top right.
-- @env - environment table containing title objects, etc., generated
with p.getEnvironment
-- Messages:
-- 'protection-template' --> 'pp-template'
-- 'protection-template-args' --> {docusage = 'yes'}
local protectionLevels = env.protectionLevels
if not protectionLevels then
    return nil
end

```

```

local editProt = protectionLevels.edit and protectionLevels.edit[1]
local moveProt = protectionLevels.move and protectionLevels.move[1]
if editProt then
    -- The page is edit-protected.
    return require('Module:Protection banner')._main{
        message('protection-reason-edit'), small = true
    }
elseif moveProt and moveProt ~= 'autoconfirmed' then
    -- The page is move-protected but not edit-protected. Exclude
move
    -- protection with the level "autoconfirmed", as this is
equivalent to
    -- no move protection at all.
    return require('Module:Protection banner')._main{
        action = 'move', small = true
    }
else
    return nil
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 p.getEnvironment
    --
    -- The actual work is done by p.makeStartBoxLinksData and
p.renderStartBoxLinks which make
    -- the [view] [edit] [history] [purge] links, and by
p.makeStartBoxData and p.renderStartBox
    -- which generate the box HTML.
    --]]
    env = env or p.getEnvironment(args)
    local links
    local content = args.content
    if not content or args[1] then
        -- No need to include the links if the documentation is on
the template page itself.
        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)
if data then
    return p.renderStartBox(data)
else
    -- User specified no heading.
    return nil
end
end

function p.makeStartBoxLinksData(args, env)
-- @@
-- Does initial processing of data to make the [view] [edit]
-- [history] [purge] links.
-- @args - a table of arguments passed by the user
-- @env - environment table containing title objects, etc., generated
with p.getEnvironment
--
-- Messages:
-- 'view-link-display' --> 'view'
-- 'edit-link-display' --> 'edit'
-- 'history-link-display' --> 'history'
-- 'purge-link-display' --> 'purge'
-- 'file-docpage-preload' --> 'Template:Documentation/preload-
filesystem'
-- '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 = message('view-link-display')
data.editLinkDisplay = message('edit-link-display')
data.historyLinkDisplay = message('history-link-display')
data.purgeLinkDisplay = message('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 = message('create-link-display')
return data
end

function p.renderStartBoxLinks(data)
-- [[
-- Generates the [view][edit][history][purge] or [create] links from
the data table.
-- @data - a table of data generated by p.makeStartBoxLinksData
-- ]]
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.viewLinkDisplay)
        local editLink = makeUrlLink(docTitle:fullUrl{action =
'edit'}, data.editLinkDisplay)
        local historyLink = makeUrlLink(docTitle:fullUrl{action =
'history'}, data.historyLinkDisplay)
        local purgeLink = makeUrlLink(title:fullUrl{action =
'purge'}, data.purgeLinkDisplay)
        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', preload = data.preload}, data.createLinkDisplay)
        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, p.renderStartBox.
        -- @args - a table of arguments passed by the user
        -- @env - environment table containing title objects, etc., generated
        with p.getEnvironment
        -- @links - a string containing the [view][edit][history][purge]
        links - could be nil if there's an error.

        --
        -- Messages:
        -- 'documentation-icon-wikitext' --> '[[File:Test Template Info-Icon
- Version (2).svg|50px|link=|alt=]]'
        -- 'template-namespace-heading' --> 'Template documentation'
        -- 'module-namespace-heading' --> 'Module documentation'
        -- 'file-namespace-heading' --> 'Summary'
        -- 'other-namespaces-heading' --> 'Documentation'
        -- '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 some output
        -- if an error occurs.
        subjectSpace = 2
    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 blank.
            return nil
    end
    if heading then
        data.heading = heading
    elseif subjectSpace == 10 then -- Template namespace
        data.heading = message('documentation-icon-wikitext') .. ''
.. message('template-namespace-heading')
    elseif subjectSpace == 828 then -- Module namespace
        data.heading = message('documentation-icon-wikitext') .. ''
.. message('module-namespace-heading')
    elseif subjectSpace == 6 then -- File namespace
        data.heading = message('file-namespace-heading')
    else
        data.heading = message('other-namespaces-heading')
    end
    -- Heading CSS
    local headingStyle = args['heading-style']
    if headingStyle then
        data.headingStyleText = headingStyle

```

```

else
    -- 'documentation-heading'
    data.headingClass = message('main-div-heading-class')
end
-- Data for the [view][edit][history][purge] or [create] links.
if links then
    -- 'mw-editsection-like plainlinks'
    data.linksClass = message('start-box-link-classes')
    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
        -- 'documentation-startbox'
        :addClass(message('start-box-class'))
        :newline()
        :tag('span')
            :addClass(data.headingClass)
            :cssText(data.headingStyleText)
            :wikitext(data.heading)
    local links = data.links
    if links then
        sbox:tag('span')
            :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 p.getEnvironment
    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.prefixedText}
    end
    -- The line breaks below are necessary so that "==== Headings ===" at
the start and end
    -- of docs are interpreted correctly.
    return '\n' .. (content or '') .. '\n'
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 p.getEnvironment
    --
    --]=]
    -- 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 link box.
local text = ''
if linkBox then
    text = text .. linkBox
else
    text = text .. (p.makeDocPageBlurb(args, env) or '') -- "This
documentation is transcluded from [[Foo]]."
        if subjectSpace == 2 or subjectSpace == 10 or subjectSpace ==
828 then
            -- We are in the user, template or module namespaces.
            -- Add sandbox and testcases links.
            -- "Editors can experiment in this template's sandbox
and testcases pages."
                text = text .. (p.makeExperimentBlurb(args, env) or
'') .. '<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 an explicitly specified doc page,
                            -- 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 '') --"Subpages of this template"
                end
            end
        local box = mw.html.create('div')
        -- 'documentation-metadata'
        box:attr('role', 'note')
            :addClass(message('end-box-class'))
            -- 'plainlinks'
            :addClass(message('end-box-plainlinks'))
            :wikitext(text)
            :done()

        return '\n' .. tostring(box)
end

function p.makeDocPageBlurb(args, env)
    --[=[
    -- Makes the blurb "This documentation is transcluded from
[[Template:Foo]] (edit, history)".
    -- @args - a table of arguments passed by the user

```

```

-- @env - environment table containing title objects, etc., generated
with p.getEnvironment
--
-- Messages:
-- 'edit-link-display' --> 'edit'
-- 'history-link-display' --> 'history'
-- 'transcluded-from-blurb' -->
-- 'The above [[Wikipedia:Template documentation|documentation]]'
-- is [[Help: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
[[Wikipedia:Lua|Scribunto module]].'
--]=]
local docTitle = env.docTitle
if not docTitle 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 = message('edit-link-display')
    local editLink = makeUrlLink(editUrl, editDisplay)
    local historyUrl = docTitle:fullUrl{action = 'history'}
    local historyDisplay = message('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.
    localcreateUrl = docTitle:fullUrl{action = 'edit', preload =
message('module-preload')}
    local createDisplay = message('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 (edit | diff) and testcases (edit) pages."
-- @args - a table of arguments passed by the user
-- @env - environment table containing title objects, etc., generated

```

```

with p.getEnvironment
  --
  -- 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 $1 and $2 pages.'
            -- 'experiment-blurb-template' --> 'Editors can experiment in this
template's $1 and $2 pages.'
  --]]
  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 then
    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)
  end
end

```

```

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(templatePage)})
    local mirrorPreload = message('mirror-link-preload')
    local mirrorUrl = sandboxTitle:fullUrl{action = 'edit',
preload = mirrorPreload, summary = mirrorSummary}
    if subjectSpace == 828 then
        mirrorUrl = sandboxTitle:fullUrl{action = 'edit',
preload = templateTitle.prefixedText, summary = mirrorSummary}
    end
    local mirrorDisplay = message('mirror-link-display')
    local mirrorLink = makeUrlLink(mirrorUrl, mirrorDisplay)
    sandboxLinks = message('sandbox-link-display') .. ' ' ..
makeToolbar(sandboxCreateLink, mirrorLink)
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)
    -- for Modules, add testcases run link if exists
    if testcasesTitle.contentModel == "Scribunto" and
testcasesTitle.talkPageTitle and testcasesTitle.talkPageTitle.exists then
        local testcasesRunLinkDisplay = message('testcases-

```

```

run-link-display')
    local testcasesRunLink =
makeWikilink(testcasesTitle.talkPageTitle.prefixedText,
testcasesRunLinkDisplay)
    testcasesLinks = testcasesLink .. ' ' ..
makeToolbar(testcasesEditLink, testcasesRunLink)
else
    testcasesLinks = testcasesLink .. ' ' ..
makeToolbar(testcasesEditLink)
end
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', preload = testcasesPreload}
    local testcasesCreateDisplay = message('testcases-create-
link-display')
    local testcasesCreateLink = makeUrlLink(testcasesCreateUrl,
testcasesCreateDisplay)
    testcasesLinks = message('testcases-link-display') .. ' ' ..
makeToolbar(testcasesCreateLink)
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 p.getEnvironment
-- 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 p.getEnvironment
-- 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
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

```

---

-- 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 p.getEnvironment
-- Messages:
-- 'display-strange-usage-category' --> true
-- 'doc-subpage' --> 'doc'

```

```

-- 'testcases-subpage' --> 'testcases'
-- 'strange-usage-category' --> 'Wikipedia pages with strange
((documentation)) usage'
--
-- /testcases pages in the module namespace are not categorised, as
they may have
-- {{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-subpage')
    )
then
    ret = ret .. makeCategoryLink(message('strange-usage-
category'))
end
return ret
end

return p

```

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["https://www.bluegoldwiki.com/index.php?title=Module:Documentation&oldid=5867"](https://www.bluegoldwiki.com/index.php?title=Module:Documentation&oldid=5867)

## Namespaces

- [Module](#)
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## Variants

[Categories:](#)

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This page was last edited on 16 September 2021, at 03:57.

# Blue Gold Program Wiki

The wiki version of the Lessons Learnt Report of the Blue Gold program, documents the experiences

of a technical assistance (TA) team working in a development project implemented by the Bangladesh Water Development Board (BWDB) and the Department of Agricultural Extension (DAE) over an eight+ year period from March 2013 to December 2021. The wiki lessons learnt report (LLR) is intended to complement the BWDB and DAE project completion reports (PCRs), with the aim of recording lessons learnt for use in the design and implementation of future interventions in the coastal zone.

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