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# Modul:Namespace detect

This module allows you to output different text depending on the **namespace** that a given page is in. It is a **Lua** implementation of the **Vorlage:TI** template, with a few improvements: all namespaces and all namespace aliases are supported, and namespace names are detected automatically for the local wiki.

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## Usage

```

{{#invoke: Namespace detect | main
| page          = <!-- page to detect namespace for, if not the current page
| main          = <!-- text to return for the main namespace -->
| talk         = <!-- text to return for talk namespaces -->

<!-- text to return for specific subject namespaces -->
| portal       =
| category    =
| user        =
| wikipedia   =
| mediawiki   =
| book        =
| timedtext   =
| template    =
| special     =
| media       =
| file        =
| image       =
| help        =
| module      =

| other        = <!-- text to return for unspecified namespaces -->
| demospace   = <!-- namespace to display text for -->

| subjectns   = <!-- set to "yes" to treat talk pages as the corresponding
}}

```

## Parameters

- **main** - text to return if the page is in the main namespace.
- **talk** - text to return if the page is in a talk namespace. This can be any talk namespace - it will match any of "Talk:", "Wikipedia talk:", "User talk:", etc.

- Subject namespace parameters, e.g. **wikipedia**, **user**, **file**... - the text to return if the page is in the corresponding namespace. This module accepts all subject namespaces as parameters, including [namespace aliases](#) and [virtual namespaces](#). See below for a list of supported values.
- **other** - text to return if no parameters for the page's namespace were specified. This text is also returned if **Vorlage:Para** is set to an invalid namespace value.
- **subjectns** - if on a talk page, use the corresponding subject page. Can be set with values of "yes", "y", "true" or "1".
- **demopage** - specifies a page to detect the namespace of. If not specified, and if the **Vorlage:Para** parameter is not set, then the module uses the current page.
- **demospace** - force the module to behave as if the page was in the specified namespace. Often used for demonstrations.

## Namespace parameters

---

Possible values for subject namespace parameters are as follows:

Namespace	Aliases
main	
benutzer	user, benutzerin
projekt	project
datei	file, bild, image
mediawiki	
vorlage	template
hilfe	help
kategorie	category
attribut	property
formular	form
konzept	concept
smw/schema	smw/schema
rule	
widget	
campaign	
timedtext	
modul	module
blog	
socialentity	
gadget	
gadget-definition	gadget definition
copikiblog	



Namespace	Aliases
deutsch	
english	
français	
italiano	
español	
nederlands	
slovenská	
dansk	
polska	
suomi	

## Table function

Use the following to display a table with the different possible namespace parameters:

```
{{#invoke:Namespace detect|table|talk=yes}}
```

To include the parameter for talk namespaces, use [Vorlage:Para](#).

## Porting to different wikis

This module is designed to be portable. To use it on a different wiki, all you need to do is to change the values in [Module:Namespace detect/config](#). Instructions are available on that page.

## Technical details

The module uses a data page at [Module:Namespace detect/data](#). This page is loaded with [mw.loadData](#), which means it is processed once per page rather than once per `#invoke`. This was done for performance reasons.

```
--[[
-----
--
--                               NAMESPACE DETECT
--
-- This module implements the {{namespace detect}} template in Lua, with a
-- few improvements: all namespaces and all namespace aliases are supported,
-- and namespace names are detected automatically for the local wiki. The
-- module can also use the corresponding subject namespace value if it is
-- used on a talk page. Parameter names can be configured for different wikis
-- by altering the values in the "cfg" table in
-- Module:Namespace detect/config.
--
-----
--]]
```



```
local data = mw.loadData('Module:Namespace detect/data')
local argKeys = data.argKeys
local cfg = data.cfg
local mappings = data.mappings

local yesno = require('Module:Yesno')
local mArguments -- Lazily initialise Module:Arguments
local mTableTools -- Lazily initialise Module:TableTools
local ustringLower = mw.ustring.lower

local p = {}

local function fetchValue(t1, t2)
    -- Fetches a value from the table t1 for the first key in array t2 where
    -- a non-nil value of t1 exists.
    for i, key in ipairs(t2) do
        local value = t1[key]
        if value ~= nil then
            return value
        end
    end
    return nil
end

local function equalsArrayValue(t, value)
    -- Returns true if value equals a value in the array t. Otherwise
    -- returns false.
    for i, arrayValue in ipairs(t) do
        if value == arrayValue then
            return true
        end
    end
    return false
end

function p.getPageObject(page)
    -- Get the page object, passing the function through pcall in case of
    -- errors, e.g. being over the expensive function count limit.
    if page then
        local success, pageObject = pcall(mw.title.new, page)
        if success then
            return pageObject
        else
            return nil
        end
    else
        return mw.title.getCurrentTitle()
    end
end

-- Provided for backward compatibility with other modules
function p.getParamMappings()
    return mappings
end

local function getNamespace(args)
    -- This function gets the namespace name from the page object.
    local page = fetchValue(args, argKeys.demopage)
    if page == '' then
        page = nil
    end
    local demospace = fetchValue(args, argKeys.demospace)
    if demospace == '' then
```

```
        demospace = nil
    end
    local subjectns = fetchValue(args, argKeys.subjectns)
    local ret
    if demospace then
        -- Handle "demospace = main" properly.
        if equalsArrayValue(argKeys.main, ustringLower(demospace)) then
            ret = mw.site.namespaces[0].name
        else
            ret = demospace
        end
    else
        local pageObject = p.getPageObject(page)
        if pageObject then
            if pageObject.isTalkPage then
                -- Get the subject namespace if the option is set
                -- otherwise use "talk".
                if yesno(subjectns) then
                    ret = mw.site.namespaces[pageObject.namespaces]
                else
                    ret = 'talk'
                end
            else
                ret = pageObject.nsText
            end
        else
            return nil -- return nil if the page object doesn't exist
        end
    end
    ret = ret:gsub('_', ' ')
    return ustringLower(ret)
end

function p._main(args)
    -- Check the parameters stored in the mappings table for any matches.
    local namespace = getNamespace(args) or 'other' -- "other" avoids nil talk
    local params = mappings[namespace] or {}
    local ret = fetchValue(args, params)
    --[[
    -- If there were no matches, return parameters for other namespaces.
    -- This happens if there was no text specified for the namespace that
    -- was detected or if the demospace parameter is not a valid
    -- namespace. Note that the parameter for the detected namespace must be
    -- completely absent for this to happen, not merely blank.
    --]]
    if ret == nil then
        ret = fetchValue(args, argKeys.other)
    end
    return ret
end

function p.main(frame)
    mArguments = require('Module:Arguments')
    local args = mArguments.getArgs(frame, {removeBlanks = false})
    local ret = p._main(args)
    return ret or ''
end

function p.table(frame)
    --[[
    -- Create a wikitables of all subject namespace parameters, for
    -- documentation purposes. The talk parameter is optional, in case it
    -- needs to be excluded in the documentation.
    --]]
end
```

```
-- Load modules and initialise variables.
mTableTools = require('Module:TableTools')
local namespaces = mw.site.namespaces
local cfg = data.cfg
local useTalk = type(frame) == 'table'
                and type(frame.args) == 'table'
                and yesno(frame.args.talk) -- Whether to use the talk parameter.

-- Get the header names.
local function checkValue(value, default)
    if type(value) == 'string' then
        return value
    else
        return default
    end
end
local nsHeader = checkValue(cfg.wikitableNamespaceHeader, 'Namespace')
local aliasesHeader = checkValue(cfg.wikitableAliasesHeader, 'Aliases')

-- Put the namespaces in order.
local mappingsOrdered = {}
for nsname, params in pairs(mappings) do
    if useTalk or nsname ~= 'talk' then
        local nsid = namespaces[nsname].id
        -- Add 1, as the array must start with 1; nsid 0 would be
        nsid = nsid + 1
        mappingsOrdered[nsid] = params
    end
end
mappingsOrdered = mTableTools.compressSparseArray(mappingsOrdered)

-- Build the table.
local ret = '{| class="wikitable"'
    .. '\n|-'
    .. '\n! ' .. nsHeader
    .. '\n! ' .. aliasesHeader
for i, params in ipairs(mappingsOrdered) do
    for j, param in ipairs(params) do
        if j == 1 then
            ret = ret .. '\n|-'
                .. '\n| <code>' .. param .. '</code>'
                .. '\n| '
        elseif j == 2 then
            ret = ret .. '<code>' .. param .. '</code>'
        else
            ret = ret .. ', <code>' .. param .. '</code>'
        end
    end
end
ret = ret .. '\n|-'
    .. '\n|}'
return ret
end

return p
```



## Modul:Namespace detect/config

This module provides configuration data for [Module:Namespace detect](#). To change the data, please follow the instructions in the module comments.

```
-----
--                               Namespace detect configuration data                               --
--                               -----
-- This module stores configuration data for Module:Namespace detect. Here --
-- you can localise the module to your wiki's language.                    --
--                               -----
-- To activate a configuration item, you need to uncomment it. This means --
-- that you need to remove the text "-- " at the start of the line.        --
--                               -----
local cfg = {} -- Don't edit this line.

-----
--                               Parameter names                               --
-- These configuration items specify custom parameter names. Values added --
-- here will work in addition to the default English parameter names.      --
-- To add one extra name, you can use this format:                         --
--                               -----
-- cfg.foo = 'parameter name'                                             --
--                               -----
-- To add multiple names, you can use this format:                       --
--                               -----
-- cfg.foo = {'parameter name 1', 'parameter name 2', 'parameter name 3'} --
--                               -----

---- This parameter displays content for the main namespace:
-- cfg.main = 'main'

---- This parameter displays in talk namespaces:
-- cfg.talk = 'talk'

---- This parameter displays content for "other" namespaces (namespaces for which
---- parameters have not been specified):
-- cfg.other = 'other'

---- This parameter makes talk pages behave as though they are the corresponding
---- subject namespace. Note that this parameter is used with [[Module:Yesno]].
---- Edit that module to change the default values of "yes", "no", etc.
-- cfg.subjectns = 'subjectns'

---- This parameter sets a demonstration namespace:
-- cfg.demospace = 'demospace'

---- This parameter sets a specific page to compare:
cfg.demopage = 'page'

-----
--                               Table configuration                               --
-- These configuration items allow customisation of the "table" function, --
-- used to generate a table of possible parameters in the module          --
-- documentation.                                                         --
--                               -----

---- The header for the namespace column in the wikipage containing the list of
```



```
---- possible subject-space parameters.  
-- cfg.wikitableNamespaceHeader = 'Namespace'  
  
---- The header for the wikitable containing the list of possible subject-space  
---- parameters.  
-- cfg.wikitableAliasesHeader = 'Aliases'  
  
-----  
--                               End of configuration data                               --  
-----  
  
return cfg -- Don't edit this line.
```

## Modul:Namespace detect/data

This is a data page for [Module:Namespace detect](#) and [Module:Category handler/shared](#). It is loaded by the main module using `mw.loadData`, which means it is only processed once per page rather than once per `#invoke`.

```
-----  
--                               Namespace detect data                               --  
-- This module holds data for [[Module:Namespace detect]] to be loaded per      --  
-- page, rather than per #invoke, for performance reasons.                       --  
-----  
  
local cfg = require('Module:Namespace detect/config')  
  
local function addKey(t, key, defaultKey)  
    if key ~= defaultKey then  
        t[#t + 1] = key  
    end  
end  
  
-- Get a table of parameters to query for each default parameter name.  
-- This allows wikis to customise parameter names in the cfg table while  
-- ensuring that default parameter names will always work. The cfg table  
-- values can be added as a string, or as an array of strings.  
  
local defaultKeys = {  
    'main',  
    'talk',  
    'other',  
    'subjectns',  
    'demospace',  
    'demopage'  
}  
  
local argKeys = {}  
for i, defaultKey in ipairs(defaultKeys) do  
    argKeys[defaultKey] = {defaultKey}  
end  
  
for defaultKey, t in pairs(argKeys) do  
    local cfgValue = cfg[defaultKey]  
    local cfgValueType = type(cfgValue)  
    if cfgValueType == 'string' then  
        addKey(t, cfgValue, defaultKey)  
    elseif cfgValueType == 'table' then  
        for i, key in ipairs(cfgValue) do  
            addKey(t, key, defaultKey)  
        end  
    end  
    cfg[defaultKey] = nil -- Free the cfg value as we don't need it any more.  
end  
  
local function getParamMappings()  
    --[[  
    -- Returns a table of how parameter names map to namespace names. The key  
    -- are the actual namespace names, in lower case, and the values are the  
    -- possible parameter names for that namespace, also in lower case. The  
    -- table entries are structured like this:  
    -- {
```

```
--    [''] = {'main'},
--    ['wikipedia'] = {'wikipedia', 'project', 'wp'},
--    ...
-- }
--]]
local mappings = {}
local mainNsName = mw.site.subjectNamespaces[0].name
mainNsName = mw.ustring.lower(mainNsName)
mappings[mainNsName] = mw.clone(argKeys.main)
mappings['talk'] = mw.clone(argKeys.talk)
for nsid, ns in pairs(mw.site.subjectNamespaces) do
    if nsid ~= 0 then -- Exclude main namespace.
        local nsname = mw.ustring.lower(ns.name)
        local canonicalName = mw.ustring.lower(ns.canonicalName)
        mappings[nsname] = {nsname}
        if canonicalName ~= nsname then
            table.insert(mappings[nsname], canonicalName)
        end
        for _, alias in ipairs(ns.aliases) do
            table.insert(mappings[nsname], mw.ustring.lower(alias))
        end
    end
end
return mappings
end

return {
    argKeys = argKeys,
    cfg = cfg,
    mappings = getParamMappings()
}
```