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Modul:Parameters

Vorlage:Lua

Implements Vorlage:Tl

```
-- This module implements [[Template:Parameters]].
-- [SublimeLinter luacheck-globals:mw]

local DEFINITIONS = {
        alt = {
                code = '<!-- text alternative for image; see WP:ALT -->',
                dlist = 'text alternative for image; see [[WP:ALT]]'},
        coordinates = {
                code = '<!-- use {{Coord}} -->',
                dlist = 'using {{tl|Coord}}'},
        coords = {
                code = '<!-- use {{Coord}} -->',
                dlist = 'using {{tl|Coord}}'},
        native_name = {
                code = '<!-- name in local language; if more than one, separate
                        'using {{Plainlist}} use {{lang}}, and omit native_name_l
                dlist = 'name in local language; if more than one, separate ' ..
                        'using {{tl|Plainlist}}, use {{tl|lang}}, and omit {{para
        native_name_lang = {
                code = '<!-- language two- or three-letter ISO code -->',
                dlist = 'language two- or three-letter ISO code'},
        start_date = {
                code = '<!-- {{Start date|YYYY|MM|DD|df=y}} -->',
                dlist = 'use {{tlx|Start date|YYYY|MM|DD|df=y}}'},
        end_date = {
                code = '<!-- {{End date|YYYY|MM|DD|df=y}} -->',
                dlist = 'use {{tlx|Start date|YYYY|MM|DD|df=y}}'},
        url = {
                code = '<!-- use {{URL|example.com}} -->',
                dlist = 'using {{tl|URL}}'},
        website = {
                code = '<!-- use {{URL|example.com}} -->',
                dlist = 'using {{tls|URL|example.com}}'},}

local p = {}
local removeDuplicates = require('Module:TableTools').removeDuplicates
local yesno = require('Module:Yesno')

local function makeInvokeFunction(funcName)
        return function(frame)
                local getArgs = require('Module:Arguments').getArgs
                return p[funcName](getArgs(frame, {removeBlanks = false}))
        end
end

local function extractParams(page)
        local source = mw.title.new(page, 'Template'):getContent()

        local parameters = {}
        for parameter in string.gmatch(source, '{{{(.-)%f[}|<>]') do
                table.insert(parameters, parameter)
        end
        return removeDuplicates(parameters)
```

```
end

local function map(tbl, transform)
        local returnTable = {}
        for k, v in pairs(tbl) do
                returnTable[k] = transform(v)
        end
        return returnTable
end

local function strMap(tbl, transform)
        local returnTable = map(tbl, transform)
        return table.concat(returnTable)
end

function p._check(args)
        local title = args.base or mw.title.getCurrentTitle().fullText
        return string.format(
                '{{#invoke:Check for unknown parameters|check|unknown=' ..
                '[[Category:Pages using %s with unknown parameters]]|%s}}', title
                table.concat(extractParams(args.base), '|'))
end

function p._code(args)
        local definitions = yesno(args.definitions)
        local pad = yesno(args.pad)

        local parameters = extractParams(args.base)
        -- Space-pad the parameters to align the equal signs vertically
        if pad then
                local lengthPerPara = map(parameters, function (parameter)
                        return string.len(parameter) end)
                -- Lua doesn't support printf's <*> to specify the width, apparen
                local fs = string.format('%%-%ss', math.max(unpack(lengthPerPara)
                for i, parameter in pairs(parameters) do
                        parameters[i] = string.format(fs, parameter)
                end
        end

        local title = args.base or mw.title.getCurrentTitle().baseText
        return string.format([[ <nowiki>{{%s
%s}}</nowiki>]], title, strMap(parameters,
                function(s)
                        if definitions then
                                return string.format('| %s = %s\n', s,
                                        DEFINITIONS[s] and DEFINITIONS[s].code or
                        else
                                return string.format('| %s = \n', s)
                        end
                end))
end

function p._flatcode(args)
        local parameters = extractParams(args.base)
        local title = args.base or mw.title.getCurrentTitle().baseText
        return string.format(' {{tlp|%s%s}}', title, strMap(parameters,
                function(s)
                        return string.format(' |%s{{=}}<var>%s</var>', s, s)
                end)
        )
end

function p._compare(args)
        local Set = require('Module:Set')
```

```
        local function normaliseParams(parameters)
                local paramsNorm = {}
                -- Prepare a key lookup metatable, which will hold the original
                -- parameter names for each normalised parameter, e.g.
                -- [test] = {TEST, Test}. paramIndex functions like a Python
                -- defaultdict, where the default is a table.
                local paramIndex = setmetatable({}, {__index = function(t, k)
                        if not rawget(t, k) then
                                rawset(t, k, {})
                        end
                        return rawget(t, k)
                end})
                for _, parameter in pairs(parameters) do
                        table.insert(paramsNorm,
                                string.lower(string.gsub(parameter, '%A', '')))
                        table.insert(paramIndex[
                                string.lower(string.gsub(parameter, '%A', ''))],
                end

                paramsNorm = removeDuplicates(paramsNorm)
                -- Overload key lookup in paramsNorm. While [[Module:Set]] will
                -- operate on the table (which is to say, the normalised paramete
                -- array), key access will be by way of the paramIndex metatable;
                setmetatable(paramsNorm, {__index = paramIndex})
                return paramsNorm
        end

        local baseParams = extractParams(args.base)
        local otherParams = extractParams(args.other)
        local baseNormParams = normaliseParams(Set.valueComplement(
                        otherParams, baseParams))
        local otherNormParams = normaliseParams(otherParams)

        return string.format([[Identical:
%s
Similar:
%s
Disparate:
%s]],
        strMap(Set.valueIntersection(baseParams, otherParams),
                function(v) return string.format('* %s\n', v) end),
        strMap(Set.valueIntersection(baseNormParams, otherNormParams),
                function(v) return string.format('* %s < %s [%s]\n',
                        table.concat(baseNormParams[v], '; '),
                        table.concat(otherNormParams[v], '; '),
                        v)
                end),
        strMap(Set.valueComplement(otherNormParams, baseNormParams),
                function(v) return strMap(baseNormParams[v],
                        function(s) return string.format('* %s\n', s) end)
                end))
end

function p._demo(args)
        local title = args.base and ('|_template=' .. args.base) or ''
        return string.format('{{Parameter names example%s|%s}}', title,
                table.concat(extractParams(args.base), '|'))
end

function p._dlist(args)
        local definitions = yesno(args.definitions, true)
        local defFormat = '; %s: %s\n'
        local nonDefFormat = '; %s: \n'
```

```
        if args._para then
                defFormat = '; {{para|%s}}: %s\n'
                nonDefFormat = '; {{para|%s}}: \n'
        end
        return strMap(extractParams(args.base),
                function(s)
                        if definitions then
                                return string.format(defFormat, s,
                                        DEFINITIONS[s] and DEFINITIONS[s].dlist c
                        else
                                return string.format(nonDefFormat, s)
                        end
                end)
end

function p._dlistpara(args)
        args._para = true
        return p._dlist(args)
end

function p._list(args)
        return strMap(extractParams(args.base),
                function(s) return string.format('* %s\n', s) end)
end


p.check = makeInvokeFunction('_check')
p.code = makeInvokeFunction('_code')
p.flatcode = makeInvokeFunction('_flatcode')
p.compare = makeInvokeFunction('_compare')
p.demo = makeInvokeFunction('_demo')
p.dlist = makeInvokeFunction('_dlist')
p.dlistpara = makeInvokeFunction('_dlistpara')
p.list = makeInvokeFunction('_list')

return p
```