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Modul:Check for unknown parameters

Vorlage:Lua

This module may be appended to a template to check for uses of unknown parameters.

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Usage

Basic usage

```
{{#invoke:check for unknown parameters|check
|unknown=[[Category:Some tracking category]]
|arg1|arg2|arg3|argN}}
```

or to sort the entries in the tracking category by parameter with a preview error message

```
{{#invoke:check for unknown parameters|check
|unknown=[[Category:Some tracking category|_VALUE_]]
|preview=unknown parameter "_VALUE_"
|arg1|arg2|...|argN}}
```

or for an explicit red error message

```
{{#invoke:check for unknown parameters|check
|unknown=<span class="error">Sorry, I don't recognize _VALUE_</span>
|arg1|arg2|...|argN}}
```

Here, `arg1`, `arg2`, ..., `argN`, are the known parameters. Unnamed (positional) parameters can be added too: `|1|2|argname1|argname2|...`. Any parameter which is used, but not on this list, will cause the module to return whatever is passed with the `unknown` parameter. The `_VALUE_` keyword, if used, will be changed to the name of the parameter. This is useful for either sorting the entries in a tracking category, or for provide more explicit information.

By default, the module makes no distinction between a defined-but-blank parameter and a non-blank parameter. That is, both unlisted Vorlage:Para and Vorlage:Para are reported. To only track non-blank parameters use Vorlage:Para.

By default, the module ignores blank positional parameters. That is, an unlisted Vorlage:Para is ignored. To *include* blank positional parameters in the tracking use Vorlage:Para.

Lua patterns

This module supports Lua patterns (similar to regular expressions), which are useful when there are many known parameters which use a systematic pattern. For example, template:infobox3cols uses

```
| regexp1 = header[%d][%d]*
| regexp2 = label[%d][%d]*
| regexp3 = data[%d][%d]*[abc]?
| regexp4 = class[%d][%d]*[abc]?
| regexp5 = rowclass[%d][%d]*
| regexp6 = rowstyle[%d][%d]*
| regexp7 = rowcellstyle[%d][%d]*
```

to match all parameters of the form `headerNUM`, `labelNUM`, `dataNUM`, `dataNUMa`, `dataNUMb`, `dataNUMc`, ..., `rowcellstyleNUM`, where NUM is a string of digits.

Example

```
{{Infobox
| above = {{{name|}}}

| label1 = Height
| data1 = {{{height|}}}

| label2 = Weight
| data2 = {{{weight|}}}

| label3 = Website
| data3 = {{{website|}}}
}}<!--
  end infobox, start tracking
-->{{#invoke:Check for unknown parameters|check
| unknown = {{main other|[[Category:Some tracking category|_VALUE_]]}}
| preview = unknown parameter "_VALUE_"
| name
| height | weight
| website
}}
```

See also

- Vorlage:Clc (category page can have header Vorlage:Tl)
- Module:Check for deprecated parameters – similar module that checks for deprecated parameters
- Module:Check for clobbered parameters – module that checks for conflicting parameters
- Module:TemplatePar – similar function (originally from dewiki)

- Template:Parameters and Module:Parameters – generates a list of parameter names for a given template
- Project:TemplateData based template parameter validation
- Module:Parameter validation checks a lot more
- User:Bamyers99/TemplateParametersTool - A tool for checking usage of template parameters

---

```
-- This module may be used to compare the arguments passed to the parent
-- with a list of arguments, returning a specified result if an argument is
-- not on the list
local p = {}

local function trim(s)
	return s:match('^%s*(.-)%s*$')
end

local function isnotempty(s)
	return s and s:match('%S')
end

local function clean(text)
	-- Return text cleaned for display and truncated if too long.
	-- Strip markers are replaced with dummy text representing the original w
	local pos, truncated
	local function truncate(text)
		if truncated then
			return ''
		end
		if mw.ustring.len(text) > 25 then
			truncated = true
			text = mw.ustring.sub(text, 1, 25) .. '...'
		end
		return mw.text.nowiki(text)
	end
	local parts = {}
	for before, tag, remainder in text:gmatch('([^\127]*)\127[^\127]*%-(%l+)%
		pos = remainder
		table.insert(parts, truncate(before) .. '&lt;' .. tag .. '&gt;...
	end
	table.insert(parts, truncate(text:sub(pos or 1)))
	return table.concat(parts)
end

function p._check(args, pargs)
	if type(args) ~= "table" or type(pargs) ~= "table" then
		-- TODO: error handling
		return
	end

	-- create the list of known args, regular expressions, and the return str
	local knownargs = {}
	local regexps = {}
	for k, v in pairs(args) do
		if type(k) == 'number' then
			v = trim(v)
			knownargs[v] = 1
		elseif k:find('^regexp[1-9][0-9]*$') then
			table.insert(regexps, '^' .. v .. '$')
		end
	end
```

```
	-- loop over the parent args, and make sure they are on the list
	local ignoreblank = isnotempty(args['ignoreblank'])
	local showblankpos = isnotempty(args['showblankpositional'])
	local values = {}
	for k, v in pairs(pargs) do
		if type(k) == 'string' and knownargs[k] == nil then
			local knownflag = false
			for _, regexp in ipairs(regexps) do
				if mw.ustring.match(k, regexp) then
					knownflag = true
					break
				end
			end
			if not knownflag and ( not ignoreblank or isnotempty(v) )
				table.insert(values, clean(k))
			end
		elseif type(k) == 'number' and knownargs[tostring(k)] == nil ther
			local knownflag = false
			for _, regexp in ipairs(regexps) do
				if mw.ustring.match(tostring(k), regexp) then
					knownflag = true
					break
				end
			end
			if not knownflag and ( showblankpos or isnotempty(v) ) th
				table.insert(values, k .. ' = ' .. clean(v))
			end
		end
	end

	-- add results to the output tables
	local res = {}
	if #values > 0 then
		local unknown_text = args['unknown'] or 'Found _VALUE_, '

		if mw.getCurrentFrame():preprocess( "{{REVISIONID}}" ) == "" ther
			local preview_text = args['preview']
			if isnotempty(preview_text) then
				preview_text = require('Module:If preview')._warn
			elseif preview == nil then
				preview_text = unknown_text
			end
			unknown_text = preview_text
		end
		for _, v in pairs(values) do
			-- Fix odd bug for | = which gets stripped to the empty s
			-- breaks category links
			if v == '' then v = ' ' end

			-- avoid error with v = 'example%2' ("invalid capture ind
			local r = unknown_text:gsub('_VALUE_', {_VALUE_ = v})
			table.insert(res, r)
		end
	end

	return table.concat(res)
end

function p.check(frame)
	local args = frame.args
	local pargs = frame:getParent().args
	return p._check(args, pargs)
end
```

```
return p
```

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
```