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## Actions

# Module:Template wrapper

From Blue Gold Program Wiki

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*Documentation for this module may be created at [Module:Template wrapper/doc](#)*

```
require('Module:No globals');
```

```
local error_msg = '<span style=\"font-size:100%\" class=\"error\"><code style=\"color:inherit; border:inherit; padding:inherit;\">&#124;_template=</code> missing or empty</span>';
```

```
--[[-----< I S _ I N _ T A B L E >-----  
-----
```

```
scan through tbl looking for value; return true if found, false else
```

```
]]
```

```
local function is_in_table (tbl, value)  
  for k, v in pairs (tbl) do  
    if v == value then return true end  
  end  
  return false;  
end
```

```
--[[-----< A D D _ P A R A M E T E R >-----  
-----
```

```
adds parameter name and its value to args table according to the state of  
boolean list argument; kv pair for  
template execution; k=v string for template listing.
```

```
]]
```

```
local function add_parameter (k, v, args, list)  
  if list then  
    table.insert( args, table.concat ({k, '=', v}));  
  -- write parameter names and values to args table as string  
  else  
    args[k] = v;  
  -- copy parameters to args table  
  end  
end
```

```
--[[-----< A L I A S _ M A P _ G E T >-----  
-----
```

```
returns a table of local template (parent frame) parameter names and the  
target template names that match where  
in [key]=<value> pairs where:  
  [key] is local template parameter name (an alias)  
  <value> is target template parameter name (the canonical parameter  
name used in the working template)
```

The parameter `|_alias-map=` has the form:

```
|_alias-map=<list>
```

where `<list>` is a comma-separated list of alias / canonical parameter name pairs in the form

```
<from> : <to>
```

where:

`<from>` is the local template's parameter name (alias)

`<to>` is the target template's parameter name (canonical)

for enumerated parameters place an octothorp (#) where the enumerator digits are placed in the parameter names:

```
<from#> : <to#>
```

```
]]

local function alias_map_get (_alias_map)
    local T = mw.text.split (_alias_map, '%s*,%s*');
-- convert the comma-separated list into a table of alias pairs
    local mapped_aliases = {};
-- mapped aliases will go here
    local l_name, t_name;
-- parameter names
    for _, alias_pair in ipairs (T) do
-- loop through the table of alias pairs
        l_name, t_name = alias_pair:match ('(.-)%s*:%s*(.+)');
-- from each pair, get local and target parameter names
        if l_name and t_name then
-- if both are set
            if tonumber (l_name) then
                l_name = tonumber (l_name);
-- convert number-as-text to a number
            end
            mapped_aliases[l_name] = t_name;
-- add them to the map table
        end
    end

    return mapped_aliases;
end

--[[-----< F R A M E _ A R G S _ G E T >-----
-----

Fetch the wrapper template's 'default' and control parameters; adds default
parameters to args

returns content of |_template= parameter (name of the working template); nil
else

]]
```

```

local function frame_args_get (frame_args, args, list)
    local template;

    for k, v in pairs (frame_args) do
-- here we get the wrapper template's 'default' parameters
        if 'string' == type (k) and (v and ('' ~= v)) then
-- do not pass along positional or empty parameters
            if '_template' == k then
                template = v;
-- save the name of template that we are wrapping
            elseif '_exclude' ~= k and '_reuse' ~= k and
'_include-positional' ~= k and '_alias-map' ~= k then -- these
already handled so ignore here;
                add_parameter (k, v, args, list);
-- add all other parameters to args in the style dictated by list
            end
        end
    end

    return template;
-- return contents of |_template= parameter
end

--[=[-----< P F R A M E _ A R G S _ G E T >-----
-----

Fetches the wrapper template's 'live' parameters; adds live parameters that
aren't members of the exclude table to
args table; positional parameters may not be excluded

no return value

]=]

local function pframe_args_get (pframe_args, args, exclude,
_include_positional, list)
    for k, v in pairs (pframe_args) do
        if 'string' == type (k) and not is_in_table (exclude, k) then
-- do not pass along excluded parameters
            if v and ('' ~= v) then
-- pass along only those parameters that have assigned values
                if 'unset' == v:lower() then
-- special keyword to unset 'default' parameters set in the wrapper template
                    v = '';
-- unset the value in the args table
                end
                add_parameter (k, v, args, list)
-- add all other parameters to args in the style dictated by list; alias map
only supported for local-template parameters
            end
        end
    end
end

```

```

        end
    end

    if _include_positional then
        for i, v in ipairs (pframe_args) do
-- pass along positional parameters
            if 'unset' == v:lower() then
-- special keyword to unset 'default' parameters set in the wrapper template
                v = '';
-- unset the value in the args table
            end
            add_parameter (i, v, args, list);
        end
    end
end
end

```

```

--[[-----< _ M A I N >-----
-----

```

Collect the various default and live parameters into args styled according to boolean list.

returns name of the working or listed template or nil for an error message

```

]]

local function _main (frame, args, list)
    local template;
    local exclude = {};
-- table of parameter names for parameters that are not passed to the working
template
    local reuse_list = {};
-- table of pframe parameter names whose values are modified before they are
passed to the working template as the same name
    local alias_map = {};
-- table that maps parameter aliases to working template canonical parameter
names
    local _include_positional;
    if frame.args._exclude and ('' ~= frame.args._exclude) then
-- if there is |_exclude= and it's not empty
        exclude = mw.text.split (frame.args._exclude, "%s*,%s*");
-- make a table from its contents
        end
-- TODO: |_reuse= needs a better name (|_reuse=)
    if frame.args._reuse and ('' ~= frame.args._reuse) then
-- if there is |_reuse= and it's not empty
        reuse_list = mw.text.split (frame.args._reuse, "%s*,%s*");
-- make a table from its contents
        end
end

```

```

        if frame.args['_alias-map'] and ('' ~= frame.args['_alias-map']) then
-- if there is |_alias-map= and it's not empty
            alias_map = alias_map_get (frame.args['_alias-map']);
-- make a table from its contents
            end

            template = frame_args_get (frame.args, args, list);
-- get parameters provided in the {{#invoke:template wrapper|...|...}}
            if nil == template or '' == template then
-- this is the one parameter that is required by this module
                return nil;
-- not present, tell calling function to emit an error message
            end
            _include_positional = 'yes' == frame.args['_include-positional'];
-- when true pass all positional parameters along with non-excluded named
parameters to ...
-- ... the working template; positional parameters are not excludable
            local _pframe_args = frame:getParent().args;
-- here we get the wrapper template's 'live' parameters from pframe.args
            local pframe_args = {};
-- a local table that we can modify

            for k, v in pairs (_pframe_args) do
-- make a copy that we can modify
                pframe_args[k] = v;
            end
-- here we look for pframe parameters that are aliases of canonical parameter
names; when found
-- we replace the alias with the canonical. We do this here because the
reuse_list works on
-- canonical parameter names so first we convert alias parameter names to
canonical names and then
-- we remove those canonical names from the pframe table that are reused
(provided to the working
-- template through the frame args table)

            for k, v in pairs (alias_map) do
-- k is alias name, v is canonical name
                if pframe_args[k] then
-- if pframe_args has parameter with alias name
                    pframe_args[v] = _pframe_args[k];
-- create new canonical name with alias' value
                    pframe_args[k] = nil;
-- unset the alias
                end
            end
            end

            for k, v in pairs (pframe_args) do
-- do enumerated parameter alias -> canonical translation
                if 'string' == type (k) then
-- only named parameters can be enumerated

```

```

        if alias_map[k..'#'] then
-- non-enumerated alias matches enumerated parameter pattern? enumerator at
end only
        pframe_args[alias_map[k..'#']:gsub('#', '')]
= v;
        -- remove '#' and copy parameter to
pframe_args table
        pframe_args[k] = nil;
-- unset the alias
        elseif k:match ('%d+') then
-- if this parameter name contains digits
        local temp = k:gsub ('%d+', '#');
-- make a copy; digits replaced with single '#'
        local enum = k:match ('%d+');
-- get the enumerator
        if alias_map[temp] then
-- if this parameter is a recognized enumerated alias
        pframe_args[alias_map[temp]:gsub('#',
enum)] = v;
        -- use canonical name and replace '#' with
enumerator and add to pframe_args
        pframe_args[k] = nil;
-- unset the alias
        end
        end
        end
        end
end

-- pframe parameters that are _reused are 'reused' have the form something
like this:
-- |chapter=[[wikisource:{{{chapter}}}|{{{chapter}}}]]
-- where a parameter in the wrapping template is modified and then passed to
the working template
-- using the same parameter name (in this example |chapter=)

-- remove parameters that will be reused
for k, v in ipairs (reuse_list) do
-- k is numerical index, v is canonical parameter name to ignore
        if pframe_args[v] then
-- if pframe_args has parameter that should be ignored
        pframe_args[v] = nil;
-- unset the ignored parameter
        end
        end
end

pframe_args_get (pframe_args, args, exclude, _include_positional,
list); -- add parameters and values to args that are not listed in the
exclude table

return template;
-- args now has all default and live parameters, return working template name
end

```

```
--[[-----< W R A P >-----  
-----
```

Template entry point. Call this function to 'execute' the working template

```
]]
```

```
local function wrap (frame)  
    local args = {};  
    -- table of default and live parameters and their values to be passed to the  
    wrapped template  
    local template;  
    -- the name of the working template  
  
    template = _main (frame, args, false);  
    -- get default and live parameters and the name of the working template  
    if not template then  
    -- template name is required  
        return error_msg;  
    -- emit error message and abandon if template name not present  
    end  
  
    return frame:expandTemplate {title=template, args=args};  
    -- render the working template  
end
```

```
--[[-----< L I S T >-----  
-----
```

Template entry point. Call this function to 'display' the source for the working template. This function added

as a result of a TfD here:

[Wikipedia:Templates\\_for\\_discussion/Log/2018\\_April\\_28#Module:PassArguments](https://en.wikipedia.org/wiki/Wikipedia:Templates_for_discussion/Log/2018_April_28#Module:PassArguments)

This function replaces a similarly named function which was used in {{cite compare}} and {{cite compare2}}

Values in the args table are numerically indexed strings in the form 'name=value'

```
]]
```

```
local function list (frame)  
    local args = {};  
    -- table of default and live parameters and their values to be passed to the  
    listed template  
    local template;  
    -- the name of the listed template
```



```

        template = _main (frame, args, true);
-- get default and live parameters and the name of the listed template
        if not template then
-- template name is required
            return error_msg;
-- emit error message and abandon if template name not present
        end

        return frame:preprocess (table.concat ({'<code style="color:inherit;
background:inherit; border:none;"><nowiki>{' , template, ' |', table.concat(
args, ' |' ), '}}</nowiki></code>}));          -- render the template
end

--[[-----< E X P O R T E D   F U N C T I O N S >-----
-----
]]

return {
    list = list,
    wrap = wrap,
};

```

Retrieved from

"[https://www.bluegoldwiki.com/index.php?title=Module:Template\\_wrapper&oldid=3534](https://www.bluegoldwiki.com/index.php?title=Module:Template_wrapper&oldid=3534)"

## Namespaces

- [Module](#)
- [Discussion](#)

## Variants

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## 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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