Modul:Demo

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Usage

Usage via templates

This module supports Vorlage:T

```
{{#invoke:Demo|main}}
```

and Vorlage:T

```
{{#invoke:Demo|inline}}
```

The input must be wrapped in Vorlage:Tag tags or else it may be processed before the module can read it.

Usage in a module

If you want to use this in another module (such as to make the output prettier), you can get values like so:

```
require('Module:demo').get(frame)
```

Function get() returns a table containing:

- `source` = the source code (without Vorlage:Tag wrappers, characters substituted with html entities)
- `output` = the execution result of the source.
- `frame` = the frame from which this template took the parameter.

By default, get() takes the first parameter of frame. If the frame uses a different parameter name for the nowiki-wrapped source, then place that name (as a string) as the second parameter, like so `require('Module:demo').get(frame, 'alternate_name')`

Example:

```
p = {}

 function p.main(frame)
  local parts = require('Module:demo').get(frame)
  return '<Pretty html><pre>' .. parts.source .. '</pre><more pretty html>' .. pa
 end

 return p
```

See also

- Template:Nowiki template demo which uses Module:Template test case
- Template:Automarkup which uses Module:Automarkup

```
local p = {}

--creates a frame object that cannot access any of the parent's args
--unless a table containing a list keys of not to inherit is provided
function disinherit(frame, onlyTheseKeys)
        local parent = frame:getParent() or frame
        local orphan = parent:newChild{}
        orphan.getParent = parent.getParent --returns nil
        orphan.args = {}
        if onlyTheseKeys then
                local family = {parent, frame}
                for f = 1, 2 do
                        for k, v in pairs(family[f] and family[f].args or {}) do
                                orphan.args[k] = orphan.args[k] or v
                        end
                end
                parent.args = mw.clone(orphan.args)
                setmetatable(orphan.args, nil)
                for _, k in ipairs(onlyTheseKeys) do
                        rawset(orphan.args, k, nil)
                end
        end
        return orphan, parent
end

function p.get(frame, arg, passArgs)
        local orphan, frame = disinherit(frame, passArgs and {arg or 1})
        local code, noWiki, preserve = frame.args[arg or 1] or ''
        if code:match'nowiki' then
                local placeholder, preserve = ('6'):char(), {}
                code = mw.text.unstripNoWiki(code)
                noWiki = code:gsub('%%', placeholder):gsub('&lt;', '<'):gsub('&gt
                for k in noWiki:gmatch('&.-;') do
                        if not preserve[k] then
                                preserve[k] = true
                                table.insert(preserve, (k:gsub('&', '&amp;')))
                                noWiki = noWiki:gsub('(&.-;)', '%%%s')
                        end
                end
                noWiki = mw.text.nowiki(noWiki):format(unpack(preserve)):gsub(pla
        end
        local kill_categories = frame.args.demo_kill_categories or frame.args.noc
        return {
                source = noWiki or code,
```

```
                output = orphan:preprocess(code):gsub(kill_categories and '%[%[Ca
                frame = frame
        }
end

function p.main(frame, demoTable)
        local show = demoTable or p.get(frame)
        local args = show.frame.args
        args.br = tonumber(args.br or 1) and ('<br>'):rep(args.br or 1) or args.b
        if show[args.result_arg] then
                return show[args.result_arg]
        end
        return string.format('<pre%s>%s</pre>%s%s', args.style and string.format(
end

-- Alternate function to return an inline result
function p.inline(frame, demoTable)
        local show = demoTable or p.get(frame)
        local args = show.frame.args
        if show[args.result_arg] then
                return show[args.result_arg]
        end
        return string.format('<code%s>%s</code>%s%s', args.style and string.forma
end

--passing of args into other module without preprocessing
function p.module(frame)
        local orphan, frame = disinherit(frame, {
                'demo_template',
                'demo_module',
                'demo_module_func',
                'demo_main',
                'demo_br',
                'demo_result_arg',
                'demo_kill_categories',
                'nocat'
        })
        local template = frame.args.demo_template and 'Template:'..frame.args.dem
        local demoFunc = frame.args.demo_module_func or 'main\n'
        local demoModule = require('Module:' .. frame.args.demo_module)[demoFunc]
        frame.args.br, frame.args.result_arg = frame.args.demo_br, frame.args.dem
        local kill_categories = frame.args.demo_kill_categories or frame.args.noc
        if demoModule then
                local named = {insert = function(self, ...) table.insert(self, .
                local source = {insert = named.insert, '{{', frame.args.demo_temp
                if not template then
                        source:insert(2, '#invoke:'):insert(4, '|'):insert(5, dem
                end
                local insertNamed = #source + 1
                for k, v in pairs(orphan.args) do
                        local nan, insert = type(k) ~= 'number', {v}
                        local target = nan and named or source
                        target:insert'|'
                        if nan then
                                target:insert(k):insert'=':insert'\n'
                                table.insert(insert, 1, #target)
                        end
                        target:insert(unpack(insert))
                        local nowiki = v:match('nowiki')
                        if nowiki or v:match('{{.-}}') then
                                orphan.args[k] = frame:preprocess(nowiki and mw.t
                        end
                end
                source:insert'}}'
```

```
                table.insert(source, insertNamed, table.concat(named))
                return p.main(orphan, {
                        source = mw.text.encode(table.concat(source), "<>'|=~"),
                        output = tostring(demoModule(orphan)):gsub(kill_categorie
                        frame = frame
                })
        else
                return "ERROR: Invalid module function: "..demoFunc
        end
end

return p
```