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# Modul:Ustring/Doku

## Dies ist die Dokumentationsseite für Modul:Ustring

This module directly imports all functions from the [Vorlage:Luaref](#) library. Documentation for each function can be found there.

The module takes an indefinite number of arguments. Arguments given as [Vorlage:Para](#), [Vorlage:Para](#), etc, are read first, and are used as strings. All remaining numerical arguments are coerced to number type if possible, and remain strings if not. If you wish for a numerical (i.e. unnamed or "[Vorlage:Para](#)", "[Vorlage:Para](#)") to remain a string, you can simply escape it by inserting `\` at the beginning of the string.

Note that MediaWiki will always trim whitespace from named arguments; to give arguments with surrounding whitespace you must use unnamed parameters starting with `\`.

### How to pass inconvenient strings

To pass this...	Write this	Explanation
" 0123 "	<a href="#">Vorlage:Para</a>	To get surrounding whitespace must use unnamed, but must precede with <code>\</code> to indicate that it isn't a number.
"0123"	<a href="#">Vorlage:Para</a>	If you don't need to preserve whitespace use <a href="#">Vorlage:Para</a> etc.
"0123"	<a href="#">Vorlage:Para</a>	If you don't need to preserve whitespace explicitly use <a href="#">Vorlage:Para</a> etc.
In another template, to pass its parameter <code>{{{1}}}</code> , preserving whitespace	<a href="#">Vorlage:Para</a>	Must provide the <code>\</code> with unknown string input.
In another template, to pass its parameter <code>{{{1}}}</code> , stripping whitespace	<a href="#">Vorlage:Para</a>	
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You can also wrap results in tags. All other unused arguments will be passed to [Vorlage:Luaref](#)



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## Usage

`{{#invoke:Ustring|function_name|arg1|arg2|...}}` is equivalent to [Vorlage:Luaref](#)

### Example using mw.ustring.sub

```
{{#invoke:Ustring|sub|s1=abcde|2|4}}
```

produces:

bcd

### Example using mw.ustring.gsub

```
{{#invoke:Ustring|gsub|s1=1234|23|}}
```

produces:

14

### Example using mw.ustring.char

```
&#amp;#{{#invoke:ustring|char|49|48|59}}
```

produces:

&#10;

### Example using mw.ustring.match

```
{{#invoke:Ustring|match|s1=abcde|s2=(c%w)}}
```

produces:

cd

Note: Only the first match is returned. Additional returns are omitted because mw.ustring.gsub's second return value is generally undesirable.



## Example using tag arguments

```

{{#invoke:Ustring|match
|s1={{Module:Ustring}}|%s%%sif%not%[^%s]+%sthen.+%
<!---enter an actual newline character to match '\n'-->%s%%s%send
|tag=syntaxhighlight|lang=lua}}

```

produces:

```

if not fargs.tag then
    return (what(unpack(args))) -- Out
end
local tagargs = {}
for x, y in pairs(fargs) do
    if not fargsused[x] then tagargs[x] = y end
end

```

Note that:

```

<syntaxhighlight lang="lua">{{#invoke:Ustring|match
|s1={{Module:Ustring}}|%s%%sif%not%[^%s]+%sthen.+%
<!---enter an actual newline character to match '\n'-->%s%%s%send}}</syntaxhighlight

```

produces:

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{{#invoke:Ustring|match
|s1={{Module:Ustring}}|%s%%sif%not%[^%s]+%sthen.+%
<!---enter an actual newline character to match '\n'-->%s%%s%send}}

```

## Errors

Errors from accessing [Vorlage:Luaref](#) should be maintained, e.g.:

```

{{#invoke:Ustring|xyzzzy}}

```

should produce:

[Vorlage:Script error](#)

and

```

{{#invoke:Ustring|maxPatternLength}}

```

should produce:

[Vorlage:Script error](#)

## See also

[Vorlage:String handling templates](#)

# Modul:Ustring

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You can also wrap results in tags. All other unused arguments will be passed to [Vorlage:Luaref](#)

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## Example using tag arguments

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|s1={{Module:Ustring}}|%s%s%sif%not%s[^%s]+%sthen.+%
<!---enter an actual newline character to match '\n'-->%s%s%send
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produces:

```
if not fargs.tag then
    return (what(unpack(args))) -- Out
end
local tagargs = {}
for x, y in pairs(fargs) do
    if not fargsused[x] then tagargs[x] = y end
end
```

Note that:

```
<syntaxhighlight lang="lua">{{#invoke:Ustring|match
|s1={{Module:Ustring}}|%s%s%sif%not%s[^%s]+%sthen.+%
<!---enter an actual newline character to match '\n'-->%s%s%send}}</syntaxhighlight
```

produces:

```
{{#invoke:Ustring|match
|s1={{Module:Ustring}}|%s%s%sif%not%s[^%s]+%sthen.+%
<!---enter an actual newline character to match '\n'-->%s%s%send}}
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```
{{#invoke:Ustring|xyzyzy}}
```

should produce:

[Vorlage:Script error](#)

and

```
{{#invoke:Ustring|maxPatternLength}}
```

should produce:

[Vorlage:Script error](#)

## See also

### Vorlage:String handling templates

```
require('Module:No globals')
return setmetatable({}, {
  __index = function(t, k)
    local what = mw.usttring[k]
    if type(what) ~= "function" then
      return what
    end
    return function(frame)
      local fargs = frame.args
      local fargsused = { tag = true }
      local args = {}
      local str_i = 1
      while fargs['s' .. str_i] do
        fargsused['s' .. str_i] = true
        args[str_i] = fargs['s' .. str_i]
        str_i = str_i + 1
      end
      for i, v in ipairs(fargs) do
        fargsused[i] = true
        args[i + str_i - 1] = tonumber(v) or v:gsub("^\\")
      end
      if not fargs.tag then
        return (what(unpack(args))) -- Out
      end
      local tagargs = {}
      for x, y in pairs(fargs) do
        if not fargsused[x] then tagargs[x] = y end
      end
      return frame:extensionTag{name = fargs.tag, content = wha
    end
  end
})
```