

Package ‘whisker’

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Title {{mustache}} for R, logicless templating

Type Package

LazyLoad yes

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Description logicless templating, reuse templates in many programming languages including R

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Collate 'whisker.R' 'section.R' 'parseTemplate.R' 'partials.R'
'inverted.R' 'pkg.R' 'iteratelist.R' 'delim.R' 'markdown.R'
'rowsplit.R'

Suggests markdown

NeedsCompilation no

Repository CRAN

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R topics documented:

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Description

Whisker is a templating engine for R conforming to the Mustache specification. Mustache is a logicless templating language, meaning that no programming source code can be used in your templates. This may seem very limited, but Mustache is nonetheless powerful and has the advantage of being able to be used unaltered in many programming languages. For example it make it very easy to write a web application in R using Mustache templates and where the browser can template using javascript's "Mustache.js"

Details

Mustache (and therefore whisker) takes a simple but different approach to templating compared to most templating engines. Most templating libraries for example Sweave and brew allow the user to mix programming code and text throughout the template. This is powerful, but ties a template directly to a programming language. Furthermore that approach makes it difficult to separate programming code from templating code.

Whisker on the other hand, takes a Mustache template and uses the variables of the current environment (or the supplied list) to fill in the variables.

Examples

```
template <-  
'Hello {{name}}  
You have just won ${{value}}!  
{{#in_ca}}  
Well, ${{taxed_value}}, after taxes.  
{{/in_ca}}'  
  
data <- list( name = "Chris"  
             , value = 10000  
             , taxed_value = 10000 - (10000 * 0.4)  
             , in_ca = TRUE  
             )  
  
whisker.render(template, data)
```

```
base <-  
'<h2>Names</h2>  
{{#names}}  
  {> user}  
{{/names}}'  
  
user <- '<strong>{{name}}</strong>'
```

```
names <- list(list(name="Alice"), list(name="Bob"))  
whisker.render(base, partials=list(user=user))
```

iteratelist*Create an iteration list from a R object*

Description

In some case it is useful to iterate over a named list or vector `iteratelist` will create a new unnamed list with name value members: each item will be a list where 'name' is the corresponding name and 'value' is the original value in list x.

Usage

```
iteratelist(x, name = "name", value = "value")
```

Arguments

| | |
|-------|---|
| x | list or other object that will be coerced to list |
| name | character name for resulting name member. |
| value | character name for resulting value member. |

Value

unnamed list with name value lists

Examples

```
# create an iteration list from a named vector  
x <- c(a=1, b=2)  
iteratelist(x)  
  
# iterate over the members of a list  
x <- list(name="John", age="30", gender="male")  
iteratelist(x, name="variable")  
  
# iterate over an unnamed vector  
values <- c(1,2,3,4)  
  
template <-  
'{{#values}}  
* Value: {{.}}  
{{/values}}'  
  
whisker.render(template)
```

```
#or

values <- iteratelist(values, value="count")

template <-
'{{#values}}
* Value: {{count}}
{{/values}}'

whisker.render(template)
```

| | |
|----------|---|
| rowSplit | <i>Split a data.frame or matrix into rows</i> |
|----------|---|

Description

Utility function for splitting a data.frame into rows. In a whisker template it can be useful to iterate over the rows of a data.frame or matrix. For example rendering a table in HTML.

Usage

```
rowSplit(x, ...)
```

Arguments

| | |
|-----|---|
| x | data.frame or matrix |
| ... | other options will be passed onto split |

| | |
|----------------|-------------------------------------|
| whisker.escape | <i>escape basic HTML characters</i> |
|----------------|-------------------------------------|

Description

This method is called for normal mustache keys

Usage

```
whisker.escape(x)
```

Arguments

| | |
|---|--------------------------------|
| x | character that will be escaped |
|---|--------------------------------|

Value

HTML escaped character

| | |
|----------------|-----------------------------|
| whisker.render | <i>Logicless templating</i> |
|----------------|-----------------------------|

Description

Logicless templating

Usage

```
whisker.render(template, data = parent.frame(),  
  partials = list(), debug = FALSE)
```

Arguments

| | |
|----------|--|
| template | character with template text |
| data | named list or environment with variables that will be used during rendering |
| partials | named list with partial templates, will be used during template construction |
| debug | Used for debugging purposes, likely to disappear |

Value

character with rendered template

Examples

```
template <- "Hello {{place}}!"  
place <- "World"  
  
whisker.render(template)
```

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