

# Package ‘HTMLUtils’

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**Type** Package

**Title** Facilitates automated HTML report creation

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**Depends** R2HTML

**Suggests** GDD, Cairo

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**Description** Facilitates automated HTML report creation, in particular framed HTML pages and dynamically sortable tables.

**License** GPL

**LazyLoad** yes

**Repository** CRAN

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HTMLUtils-package *Facilitates automated HTML report creation*

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**Description**

Facilitates automated HTML report creation, in particular framed HTML pages and dynamically sortable tables.

**Details**

Package: HTMLUtils  
 Type: Package  
 Version: 0.1.3  
 Date: 2009-06-29  
 License: What license is it under?  
 LazyLoad: yes

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

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BasicHTML *creates a basic HTML page displaying plots and annotations*

---

**Description**

Creates a basic HTML page displaying plots and annotations that can easily be navigated. The plots can be created either 'on the fly' by passing the appropriate commands or beforehand in which case just the filenames need to be passed.

**Usage**

```
BasicHTML(cmds = NULL, HTMLobjects, Captions, MenuLabels, Comments,
          file = "tmp.html", title = "", width = 480, height = 480,
          FRAMES = FALSE, JSPATH = "jsc", LaunchPage = FALSE, APPEND = FALSE, verbo
```

**Arguments**

cmds list of commands that generates the plots. If missing, the graphfiles are assumed to exist already.

HTMLObjects	list of graph filenames, either to be created by the list of commands or to be copied to the Figures subdirectory and/or dataframes to be displayed in sortable tables.
Captions	vector of captions; these go directly below the graphs
MenuLabels	vector of labels for the main page.
Comments	Text/comments to be written between the graphs
file	file name of main page; '.html' extension will be added. The '_main' and '_menu' pages use this base as well.
title	title to be written in the navigation/menu page
width	width for all graphfiles
height	height for all graphfiles
FRAMES	is this an HTML page with frames ?
JSPATH	path that should contain the jsc components. If non existing, user will be prompted for installation.
LaunchPage	launch the page ?
APPEND	append to existing HTML page ?
verbose	level of verbosity

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

**See Also**

[FramedHTML](#)

**Examples**

```
#example with plots and graphfiles being generated on the fly:
## Not run:
BasicHTML(cmds = list("plot(rnorm(100));", "plot(1:10);"), HTMLObjects = list("Fig1.p

#example with plots and graphfiles having been generated beforehand:
png("Fig1.png");
plot(rnorm(100));
dev.off()
png("Fig2.png");
plot(1:10);
dev.off();

BasicHTML(HTMLObjects = list("Fig1.png", "Fig2.png"), Captions=c("Gaussian noise",
MenuLabels = c("Marvel at the graph below", "scatterplots are nice"), title="Test Pag
width=480, height=480, verbose=1, JSPATH = NULL);

#example with absolute paths for graphfiles :
Fig1 <- paste(tempdir(), "/Fig1.png", sep="")
png(Fig1);
```

```

plot(rnorm(100));
dev.off()
Fig2 <- paste(tempdir(), "/Fig2.png", sep="")
png(Fig2);
plot(1:10);
dev.off();

BasicHTML( HTMLObjects = list(Fig1, Fig2), Captions=c("Gaussian noise", "seq 1:10"),
MenuLabels = c("Marvel at the graph below", "scatterplots are nice"), title="Test Page",
width=480, height=480, verbose=1, JSPATH = NULL);
#cleanup:
#system(paste("rm ", Fig1));system(paste("rm ", Fig2))
## End(Not run)
#example with sorted table:
## Not run: x <- cbind.data.frame(x1 = round(rnorm(10),3), x2 = round(runif(10),3));
## Not run: attr(x, "HEADER") <- "some random numbers";
## Not run:
BasicHTML(HTMLObjects = list("Fig1.png", x, "Fig2.png"),
Captions=c("Gaussian noise", "Gaussian and uniform random numbers", "seq 1:10"),
file = paste(Sys.getenv("HOME"), "/public_html/tmp/tmp.html", sep=""), JSPATH = "../")
## End(Not run)

```

---

CairoWorks

*to come*

---

## Description

to come

## Usage

```
CairoWorks(testfile = paste(tempdir(), "/tmp.png", sep=""), verbose = 0)
```

## Arguments

testfile

verbose

## Author(s)

Markus Loecher, Sense Networks <markus@sensenetworks.com>

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CleanUpdevs	<i>to come</i>
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**Description**

to come

**Usage**

```
CleanUpdevs ()
```

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

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FramedHTML	<i>creates a framed HTML page displaying plots and annotations</i>
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**Description**

Creates a framed HTML page displaying plots and annotations that can easily be navigated. The plots can be created either 'on the fly' by passing the appropriate commands or beforehand in which case just the filenames need to be passed. The user has a great deal of flexibility in choosing appropriate directory structures.

**Usage**

```
FramedHTML(cmds = NULL, basepath = paste(Sys.getenv("HOME"), "/public_html/", sep =
  path = "tmp", Graphpath = "Figures/", DiagnosticsPath = "Diagnostics",
  file = "tmp", HTMLobjects, Captions=NULL, MenuLabels1=NULL, MenuLabels2=NULL,
  title = "", width = 480, height = 480, REFRESH = "", APPEND = FALSE, verbose
```

**Arguments**

cmds	list of commands that generates the plots. If missing, the graphfiles are assumed to exist already.
basepath	base path of 'public_html' directory
path	subdirectory of basepath; will be created if non existing
Graphpath	subdirectory of 'basepath/path/' containing the graphfiles; will be created if non existing
DiagnosticsPath	subdirectory of 'basepath/path/' containing diagnostic output; will be created if non existing

file	file name of main page; '.html' extension will be added. The '_main' and '_menu' pages use this base as well.
HTMLObjects	list of graph filenames, either to be created by the list of commands or to be copied to the Figures subdirectory and/or dataframes to be displayed in sortable tables.
Captions	vector of captions; these go directly below the graphs
MenuLabels1	vector of labels for the menu navigation page. It helps to keep these succinct and short !
MenuLabels2	vector of labels for the main page; these go on top of the individual graphs, so they are complementary to the captions.
Comments	Text/comments to be written between the graphs
title	title to be written in the navigation/menu page
width	width for all graphfiles
height	height for all graphfiles
REFRESH	Meta refresh is a method of instructing a web browser to automatically refresh the current web page after a given time interval.
APPEND	append to existing HTML page ?
verbose	level of verbosity

**Note**

There is not much error checking. In particular, the lengths of the arguments `cmds`, `graphfiles`, `Captions`, `MenuLabels1`, `MenuLabels2` need to be all the same !

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetWORKS.com>

**See Also**

[BasicHTML](#)

**Examples**

```
#example with plots and graphfiles being generated on the fly:
## Not run:
FramedHTML(cmds = list("plot(rnorm(100));", "plot(1:10);"), HTMLObjects =list("Fig1.p

#example with plots and graphfiles having been generated beforehand:
png("Fig1.png");
plot(rnorm(100));
dev.off()
png("Fig2.png");
plot(1:10);
dev.off();
```

```

FramedHTML( HTMLObjects = list("Fig1.png", "Fig2.png"), Captions=c("Gaussian noise",
MenuLabels1 = c("Label1","Label2"), MenuLabels2 = c("Marvel at the graph below","sca
Comments = c("100 random numbers","Simple plot"), title="Test Page",width=480, heig

#example with absolute paths for graphfiles :
Fig1 <- paste(tempdir(),"/Fig1.png",sep="")
png(Fig1);
plot(rnorm(100));
dev.off()
Fig2 <- paste(tempdir(),"/Fig2.png",sep="")
png(Fig2);
plot(1:10);
dev.off();

FramedHTML( HTMLObjects = list(Fig1, Fig2), Captions=c("Gaussian noise","seq 1:10"),
MenuLabels1 = c("Label1","Label2"), MenuLabels2 = c("Marvel at the graph below","sc
Comments = c("100 random numbers","Simple plot"), title="Test Page",width=480, hei
#cleanup:
#system(paste("rm ", Fig1));system(paste("rm ", Fig2))
## End(Not run)
#example with sorted table:
## Not run: x <- cbind.data.frame(x1 = round(rnorm(10),3), x2 = round(runif(10),3));
## Not run: attr(x, "HEADER") <- "some random numbers";
## Not run:
FramedHTML(HTMLObjects = list("Fig1.png", x, "Fig2.png"),
MenuLabels1 = c("Label1","Label2","Label3"), MenuLabels2 = c("Marvel at the graph be
Captions=c("Gaussian noise","Gaussian and uniform random numbers", "seq 1:10"),
path = "tmp", file = "index");
## End(Not run)

```

---

HTMLhref

*adds an href item to the current HTML page*


---

### Description

adds an href item to the current HTML page

### Usage

```
HTMLhref(href, txt, file = get(".HTML.file"), append = TRUE)
```

### Arguments

href	HTML reference/URL
txt	text to display
file	file to write to
append	append to file (default TRUE)

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

---

HTMLsortedTable     *create sortable table*

---

**Description**

create sortable table using JavaScript components in JSPATH directory

**Usage**

```
HTMLsortedTable(x, TITLE = "", HEADER = "", file = "tmp.html", path = paste(Sys.get
```

**Arguments**

x                    data frame or matrix with column names  
 TITLE  
 HEADER  
 file  
 path  
 JSPATH  
 debug

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

---

InstallJSC            *installs the JS components*

---

**Description**

prompts the user to install the JS components to the relevant directory, which enables dynamically sortable tables.

**Usage**

```
InstallJSC(JSPATH)
```

**Arguments**

JSPATH              path to install the jsc directory to. Recommended is the base public\_html directory.

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

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makePathName            *to come*

---

**Description**

to come

**Usage**

```
makePathName(path, MakePath = TRUE, verbose = 0)
```

**Arguments**

path  
MakePath  
verbose

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

---

myHTMLInitFile            *Begins / Ends a new HTML report output*

---

**Description**

Those two functions handle the beginning and the ending of a HTML report, by writing the HTML <body><head><title></title></head>...</body> tags and their options. When working manually, the user may need to use it's own functions or to explicitly write to a file using cat("", file=).

**Usage**

```
myHTMLInitFile(outdir = tempdir(), filename = "index", extension = "html", HTMLfram
```

**Arguments**

outdir	directory to store the output
filename	target HTML report filename
extension	target HTML report extension (htm, html,...)
HTMLframe	should the output be handled by frames [boolean]
BackColorColor	option bgcolor for HTML tag <body>
BackgroundImg	option background for HTML tag <body>
Title	string to pass to HTML <title> tag
NavTitle	
CSSFile	path and name of a CSS file to use
useLaTeX	boolean - add required references to javascript AsciiMathML in order to use <code>as.latex</code>
useGrid	boolean - add required references to javascript grid in order to use R2HTML grid fonctions
img.logo.path	
img.logo	
img.href	
JSPATH	
APPEND	append to existing HTML page ?
REFRESH	Meta refresh is a method of instructing a web browser to automatically refresh the current web page after a given time interval.

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

---

MyReportBegin      *gracefully initializes the HTML page*

---

**Description**

gracefully initializes the HTML page

**Usage**

```
MyReportBegin(file = "report.html", title = "My Report Title", header = NULL)
```

**Arguments**

file  
title  
header

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

---

*MyReportEnd*                      *gracefully finalizes the HTML page*

---

**Description**

gracefully finalizes the HTML page

**Usage**

```
MyReportEnd(file = "report.html")
```

**Arguments**

file

**Author(s)**

Markus Loecher, Sense Networks <markus@sensenetworks.com>

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