attacher

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0 About this vignette

This vignette works as the test for this package.

```
> This designates R code

# This designates LaTeX code
```

1 The functions

1.1 `knitr` chunk hook `tab.cap`

`tab.cap` is suppose to be analogous to `fig.cap`, i.e. given a caption create the appropriate environment.

```
> <<tab.cap = "The hook gives environment + caption", results = 'asis'>>=
> kable(mtcars[1:2,1:5], format = "latex")
> @
```

Gives you the following (or very similar) LaTeX code:

```
# \begin{table}[htb]
#  \caption{The hook gives environment + caption}
#  \label{tab:chunk-label}
#  \centering\vspace{0.2cm}
#  \begin{tabular}{l|r|r|r|r|r}
#   \hline
#         & mpg & cyl & disp & hp & drat\\
#   \hline
#   Mazda RX4 & 21 & 6 & 160 & 110 & 3.9\\
#   \hline
#   Mazda RX4 Wag & 21 & 6 & 160 & 110 & 3.9\\
#   \hline
#  \end{tabular}
# \end{table}
```

as well as Table 1.

Table 1: The hook gives environment + caption

	mpg	cyl	disp	hp	drat
Mazda RX4	21	6	160	110	3.9
Mazda RX4 Wag	21	6	160	110	3.9

Table 2: A caption again.

	mpg	cyl	disp	hp	drat
Mazda RX4	21	6	160	110	3.9
Mazda RX4 Wag	21	6	160	110	3.9

1.2 Attach a table: `tab_cap`

If you use the `attachfile` LaTeX package then you can use the `tab_cap` function to include a table with the document. (This is easy to do without this package, the point is to be able to set parameters globally)

```
> <<"with-kable">>=
> tab <- mtcars[1:2,1:5]
> kable(tab, format = "latex",
>       caption = tab_cap(cap = "A caption again.", object = tab, attach = TRUE))
> @
```

The above code gives you a table (but `knitr::kable` does not provide a label.

You can also combine `tab_cap` with `tab.cap`. **N.B.** you can refer to objects created in the chunk if you've set the knit options `eval.after` to include `tab.cap` (which is set when the `attacher` package is being attached).

```
> <<"with-tab_cap", tab.cap = tab_cap("Yet another caption", tab, TRUE)>>=
> tab <- mtcars[1:2,1:5]
> kable(tab, format = "latex")
> @
```

The above code gives you Table 3.

Table 3: Yet another caption

	mpg	cyl	disp	hp	drat
Mazda RX4	21	6	160	110	3.9
Mazda RX4 Wag	21	6	160	110	3.9

1.3 Attach a plot: `fig_cap`

Use `fig_cap` to attach a plot.

```
> <<"a-plot", fig.cap = fig_cap("Caption", TRUE)>>=
> plot(1:10, runif(10), type = "b", xlab = "The X", ylab = "Y!")
> @
```

The above code gives you Figure 1.

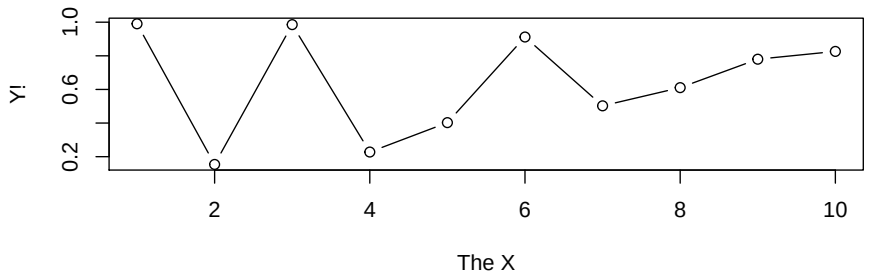

Figure 1: Caption

2 Global options

Most options can be set globally, with `opts_attacher$set` (which tries to mimic the behaviour of knitr's `opts_chunk$set`). The following options are currently available

```
opts_attacher$get()

## $attach_graph
## [1] FALSE
##
## $attach_table
## [1] FALSE
##
## $table_path
## [1] "attacher_tables"
##
## $graph_dev
## [1] "pdf"
##
## $table_fnc
## function (...)
## {
##     Call <- match.call(expand.dots = TRUE)
##     for (argname in c("append", "col.names", "sep", "dec", "qmethod")) if (!is.null(Call
##         warning(gettextf("attempt to set '%s' ignored", argname),
##             domain = NA)
##     rn <- eval.parent(Call$row.names)
##     Call$append <- NULL
##     Call$col.names <- if (is.logical(rn) && !rn)
```

```
##         TRUE
##     else NA
##     Call$sep <- ","
##     Call$dec <- "."
##     Call$qmethod <- "double"
##     Call[[1L]] <- as.name("write.table")
##     eval.parent(Call)
## }
## <bytecode: 0x000000000a995580>
## <environment: namespace:utils>
##
## $table_ext
## [1] "csv"
```