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 **??**.

Table 1: The hook gives environment + caption

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)

Table 3: 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

```
> <<"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 **??**.

Table 4: Yet another caption

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 **??**.
figure/a-plot-1.pdf

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$_a$ttacherget() $attach_graph[1]FALSE$attach$_t$able$[1]FALSE$table$_p$ath$[1]"attacher_tables"$graph$_d$ev$[1]"pd$
Call$append < -NULLCall$col.names ¡- if (is.logical(rn) !rn) TRUE else
NA Call$sep < -","Call$dec ¡- "." Call$qmethod < -"double"Call[[1L]] <
$-as.name("write.table")eval.parent(Call) < bytecode : 0x000000003793d750 ><$
$environment : namespace : utils >$table$_ext[1]"csv"$