A Cheatsheet Template

Section 1

Subsection 1

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Options and color adjustments

You can define in the YAML header under params

- the path to a **logo** for the footer (optional)
- the creative commons license displayed in the footer (optional)
- the number of columns (multicols); you can choose any value > 1, default is 3
- whether the space before the code block (when echo =TRUE) should be reduced; this works only if code chunks are displayed, hence, default is set to false
- the **title** color (default is black)
- the color for the **(sub)section header** (default is black)
- the color for inline code (i.e. for \texttt and \verb text) (default is black)
- the color for the **headerbox** (\headerbox) (default is FBE-FCE)
- the color for the different **textboxes** defined in this template:
 - col redbox for the redbox (default is bc0000)
 - col_bluebox for the bluebox (default is 027BCB)
 - col_greenbox for the greenbox (default is 7fa16a)
 - col_yellowbox for the yellowbox (default is eeb422)

- col_graybox for the graybox (default is 8c8c8c)
- col_blackbox for the 'blackbox" (default is 191919)
- col_whitebox for the whitebox (default is e0e0e0)

Note that you have to use the color hex coding **without** the hashtag. If you need more colors than these 7, you can define 14 more colors by appending the number 2 or 3 to each color and box, e.g. col_redbox2 and col_redbox3 for redbox2 and redbox3, respectively.

Overview of some package functions

install.packages(): Install packages from repositories or local files.

library(): Loading/attaching and listing of packages.

require(): library(pkg) and require(pkg) both load the namespace of the package *pkg* and attach it on the search list. require is designed for use inside other functions; it returns FALSE and gives a warning (rather than an error as library() does by default) if the package does not exist.

vignette(): View, list or get R source of package vignettes.

browseVignettes(): List available vignettes in an HTML browser with links to PDF, LaTeX/noweb source, and (tangled) R code (if available).

Inline code inside the colored textboxes has to be written in LaTeX

search():

Give search path for R objects.

attach():

Attach set of R objects to search path.

detach():

Detach objects from the search path.

Listings of functions in tabular style

Pandoc converts Markdown tables as well as R output that is a matrix or data.frame into longtable objects, which do not work with the multi-column layout. I haven't found a solution yet for the latter, so you cannot show this here. For the former I advise you to use the MEXcode directly here. If you do so, beware that inside any

☑ EXECOMMAND YOU cannot use Markdown syntax anymore!

search() Give search path for R objects.

attach() Attach set of R objects to search

path.

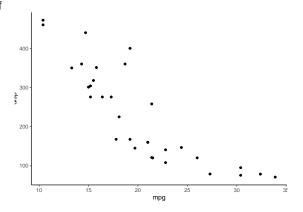
detach()
Detach objects from the search path.

Table of key object types in a textbox object dimensions data type vector 1 homogeneous list 1 heterogeneous matrix 2 homogeneous array >2 homogeneous data.frame 2 heterogeneous

Some R code demonstration R input and output

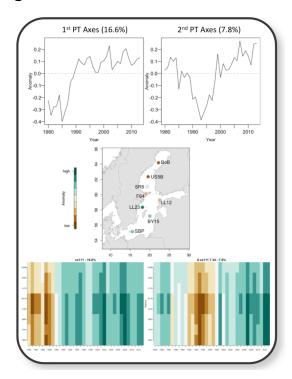
[1] "This sample has a mean of 101.4 ± 59.5 "

Plotting example with mtcars





Images



Images are best included using the include_graphics() function so that the size and position can be easily defined.

Or use LATEX syntax, which gives you even more control!

Textbox Layouts

Textbox with no header and two list examples:

Ordered list

- 1. **Explore** your data
- 2. Extract the key information
- 3. **Present** your findings

Unordered list

- One
- Two
- Three

Multiple columns in a box

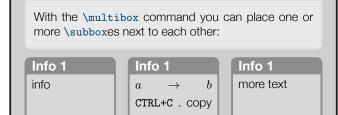


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column 1

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Boxes inside a box



Boxes extending over multiple columns

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Use of colored header box

You can also use a colored headerbox to separate sections more visually. The advantage here is that all the text below the headerbox can be written in normal R Markdown syntax:

Subsection 1

install.packages(): Install packages from repositories or local files.



require(): library(pkg) and require(pkg) both load the namespace of the package *pkg* and attach it on the search list. require is designed for use inside other functions; it returns FALSE and gives a warning (rather than an error as library() does by default) if the package does not exist.

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Subsection 2

search() Give search path for R objects.

attach() Attach set of R objects to search path.

detach() Detach objects from the search path.

