

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 hash-tag. 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 \LaTeX code directly here. If you do so, beware that inside any

\LaTeX command 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

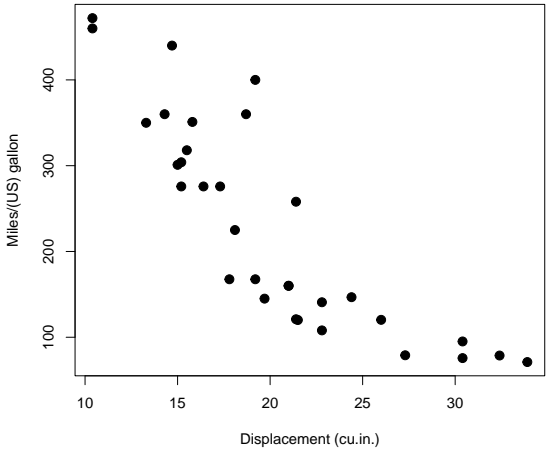
object	dimensions	data type
<code>vector</code>	1	homogeneous
<code>list</code>	1	heterogeneous
<code>matrix</code>	2	homogeneous
<code>array</code>	>2	homogeneous
<code>data.frame</code>	2	heterogeneous

Some R code demonstration

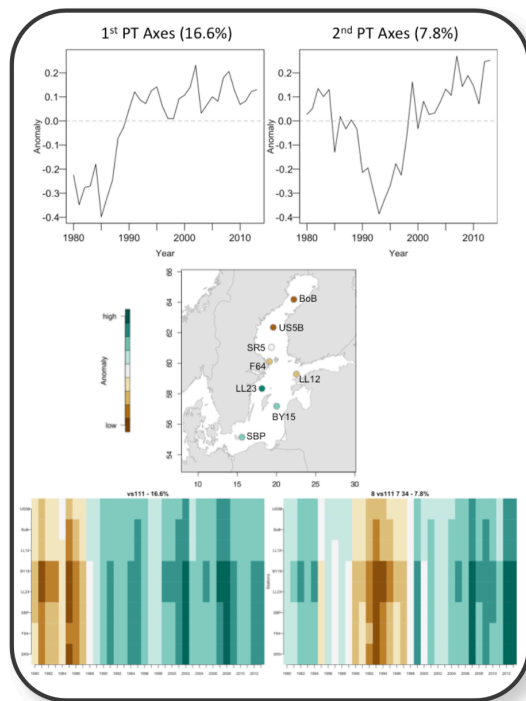
R input and output

```
## [1] "This sample has a mean of 151.3 ± 87"
```

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



column 1

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column 1

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Boxes inside a box

With the `\multibox` command you can place one or more `\subboxes` next to each other:

Info 1

info

Info 1

$a \rightarrow b$
CTRL+C . copy

Info 1

more text

Boxes extending over multiple columns

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

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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.

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.