

# A Cheatsheet Template

## Section 1

### Subsection 1

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#### Lorem ipsum in a bluebox

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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** (`multicol`s); 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

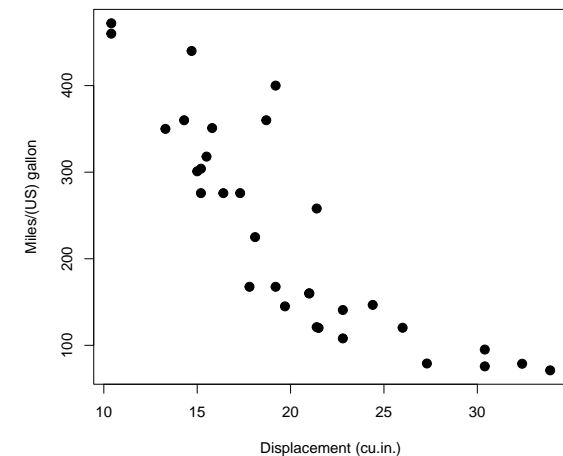
object	dimensions	data type
<code>vector</code>	1	homogeneous
<code>list</code>	1	heterogeneous
<code>matrix</code>	2	homogeneous
<code>array</code>	>2	homogeneous
<code>data.frame</code>	2	heterogeneous

## Some R code demonstration

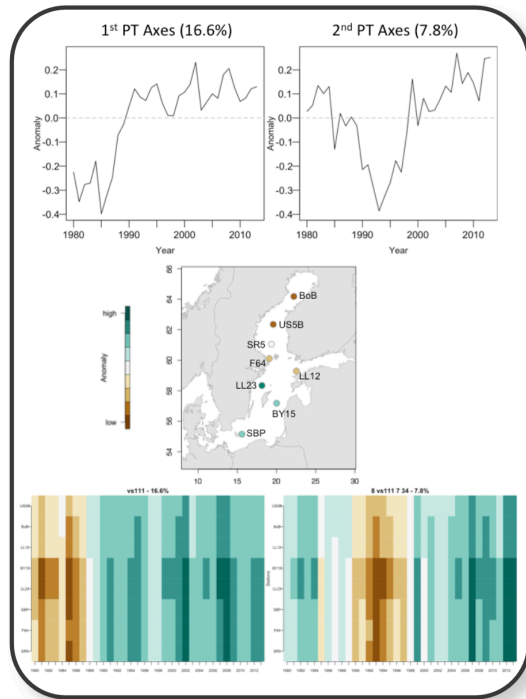
### R input and output

```
## [1] "This sample has a mean of 56.1 ± 27.9"
```

### 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 2

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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 2

$a \rightarrow b$   
CTRL+C . copy

### Info 3

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.