skeleton ostluft/readthedown with pandoc-crossref

Your Name

Created: 14.04.2020, Updated: 21.04.2020

1 Features

1.1 Cross referencing

The skeleton is using lierdakil/pandoc-crossref. This requires the installation of pandoc-crossref with a compatible version of pandoc. Additional a knitr hook to add the necessaries labels is needed.

In Addition the template supports bookdown. Use `use_bookdown: TRUE` in the yaml header to use the `bookdown::html_document2()` renderer.

Both solutions have their merits and disadvantages. pandoc-crossref is more configurable, but also needs more setup. bookdown one the other hand has additionals features.

1.2 lightbox support

Using the Magnific popup lightbox plugin for plots and images. To enable the plugin set `lightbox: TRUE` and for gallery support `gallery: TRUE` in the yaml header. Fore more infos see Kapitel 4.

1.3 minimal pdf support

The file `ostluft_header.tex` includes the minimal changes to create a pdf output. Search for `% OSTLUFT` to inspect the changes.

2 Cross Referencing

2.1 Test Reference

- Reference plot Abbildung 1
- Reference plots Abbildung 2
- Reference image Abbildung 4
- Reference image Abbildung 5
- Reference plotted image Abbildung 3
- Reference chapter Kapitel 2.1
- Reference equation Gleichung 1
- Reference to a `kable` table Tabelle 1
- Reference to a Code Block Code Block 1
- Reference to a Code Block Code Block 2

2.2 plots
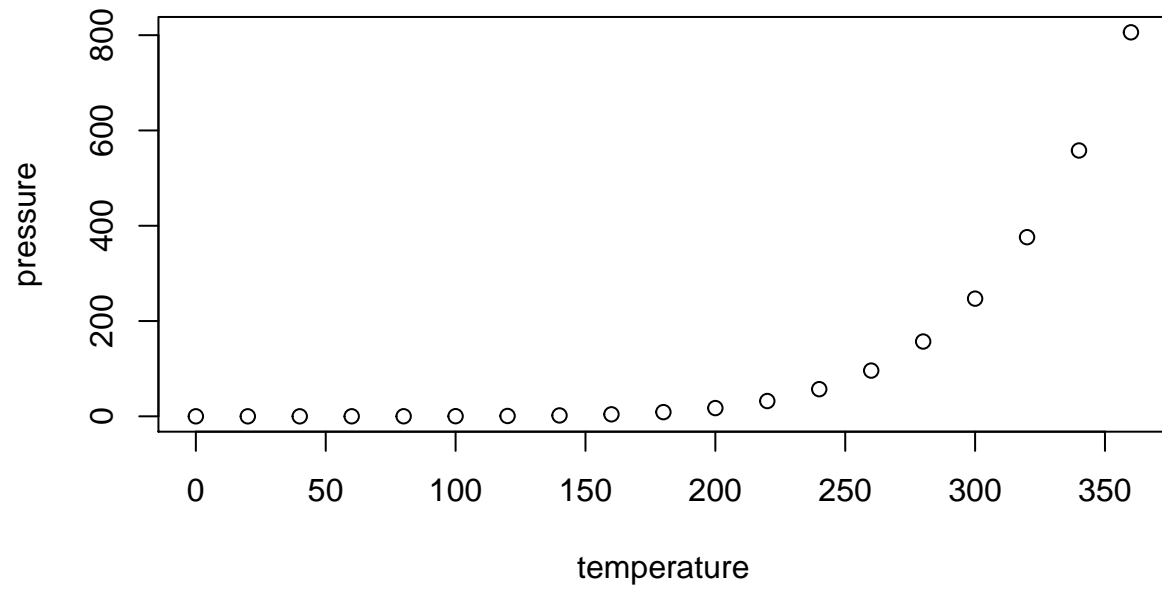
2.2.1 simple single plot

Abbildung 1: Vapor Pressure of Mercury as a Function of Temperature
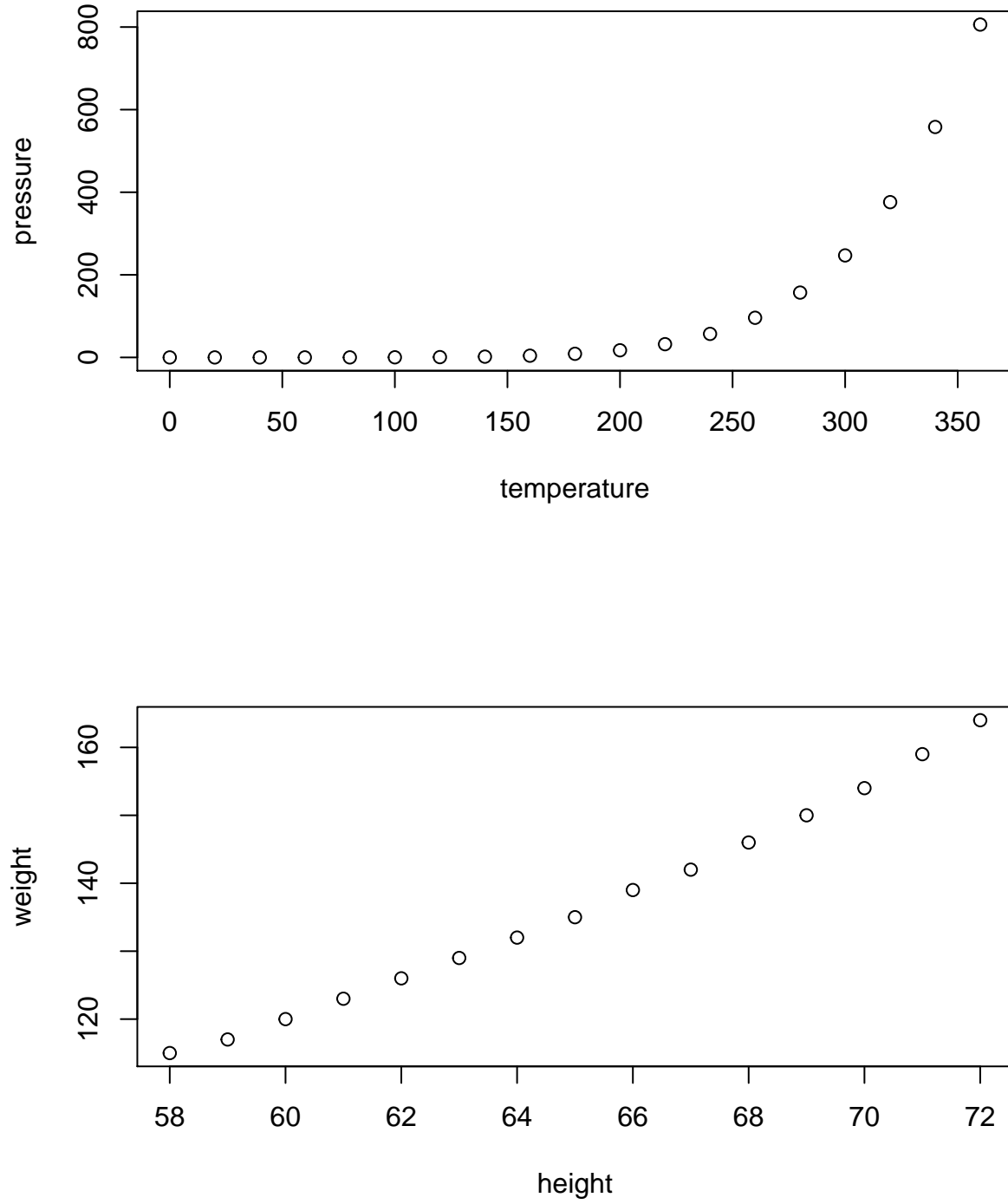
2.2.2 multiple plots

Abbildung 2: Vapor Pressure of Mercury as a Function of Temperature
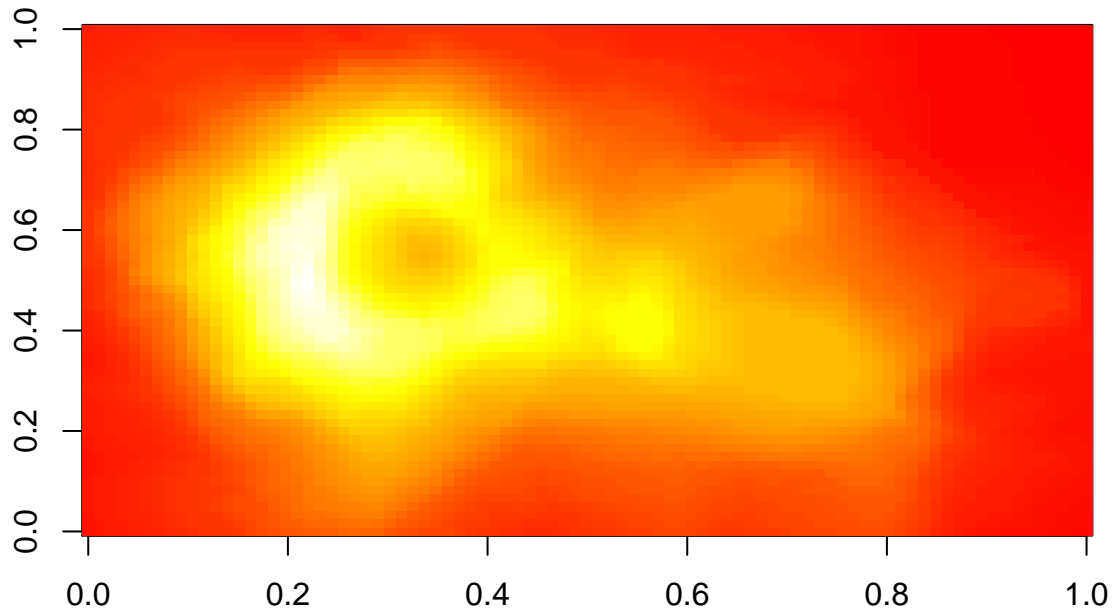
2.2.3 image function works too

Abbildung 3: Vulkan mit heat.colors(200)

Back to Test Links

2.3 external image

2.3.1 Markdown Syntax

Abbildung 4: Ostluft Logo

2.3.2 knitr::include_graphics

Abbildung 5: Ostluft Logo with `knitr::include_graphics`

Back to Test Links

2.4 NO cross references
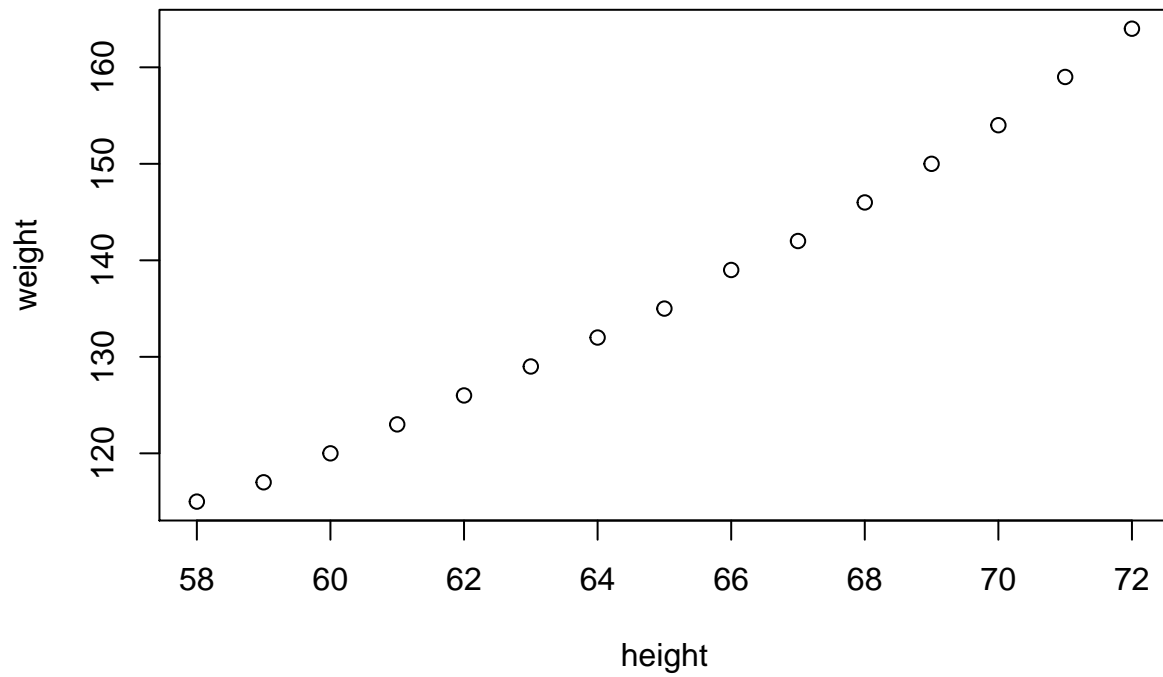
2.4.1 dont include chunks without a label

Abbildung 6: Average Heights and Weights for American Women

2.4.2 dont include chunks with options crossref=FALSE
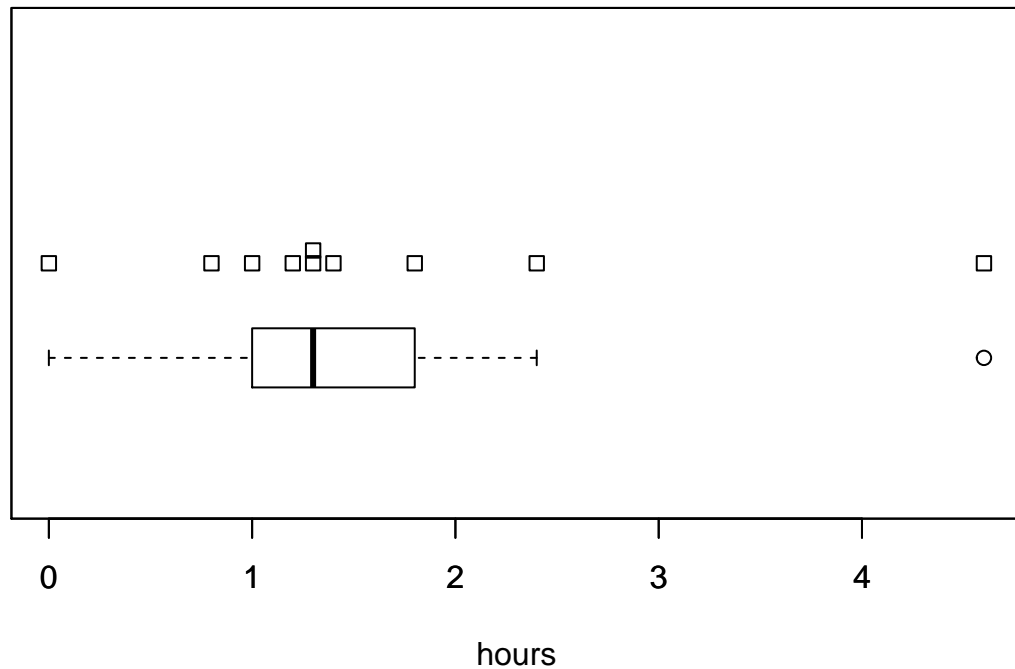
Sleep prolongation (n = 10)

Abbildung 7: Sleep prolongation

Back to Test Links

3 Markdown Format & Syntax Examples

3.1 Code and tables

3.1.1 Syntax highlighting

Here is a sample code chunk, just to show that syntax highlighting works as expected.

Code Block 1 Syntax highlighting

```r
library(ggplot2)
library(dplyr)
not_null <- function(v) {
    if (!is.null(v))
        return(paste(v, "not null"))
}
data(iris)
tab <- iris %>% group_by(Species) %>% summarise(Sepal.Length = mean(Sepal.Length), Sepal.Width = mean(S
    Petal.Width = mean(Petal.Length))
```

3.1.2 Verbatim

Here is the structure of the `iris` dataset.

`str(iris)`

```
Code Block 2 ECHO=TRUE
'data.frame':  150 obs. of  5 variables:
 $ Sepal.Length: num  5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
 $ Sepal.Width : num  3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
 $ Petal.Length: num  1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
 $ Petal.Width : num  0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
 $ Species     : Factor w/ 3 levels "setosa","versicolor",..: 1 1 1 1 1 1 1 1 1 1 ...
```

And blockquote :

> Oh ! What a nice blockquote you have here. Much more wonderful than a classical Lorem Ipsum, really. And we could also include links or simply URLs like this : https://github.com/juba/rmdformats

3.1.3 Table

Here is a sample table output.

Tabelle 1: `kable` cross reference example

Species	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width
setosa	5.006	3.428	1.462	1.462
versicolor	5.936	2.770	4.260	4.260
virginica	6.588	2.974	5.552	5.552

Here is a sample `DT::datatable` output[1].

`DT::datatable` only supported when rendering to html

Here we display a crosstab displayed in several different ways with a "pills" interface. To do this, just pass your `table()` result to the `pilltabs()` function.

`rmdformats::pilltabs()` only supported when rendering to html
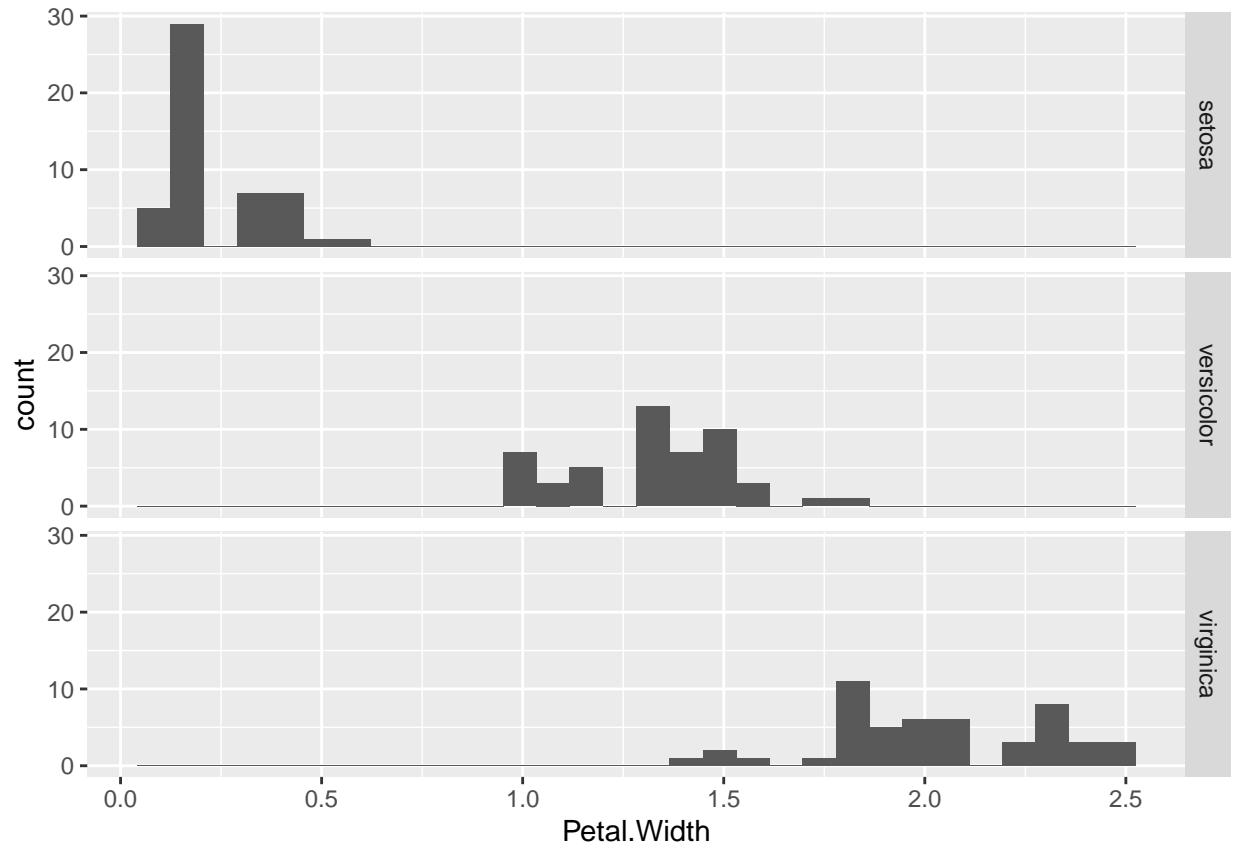
3.2 Mathjax

An incredibly complex equation :

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

3.3 Figures

Here is an histogram.

---

[1]cross referencing html tables isn't possible with pandoc-crossref

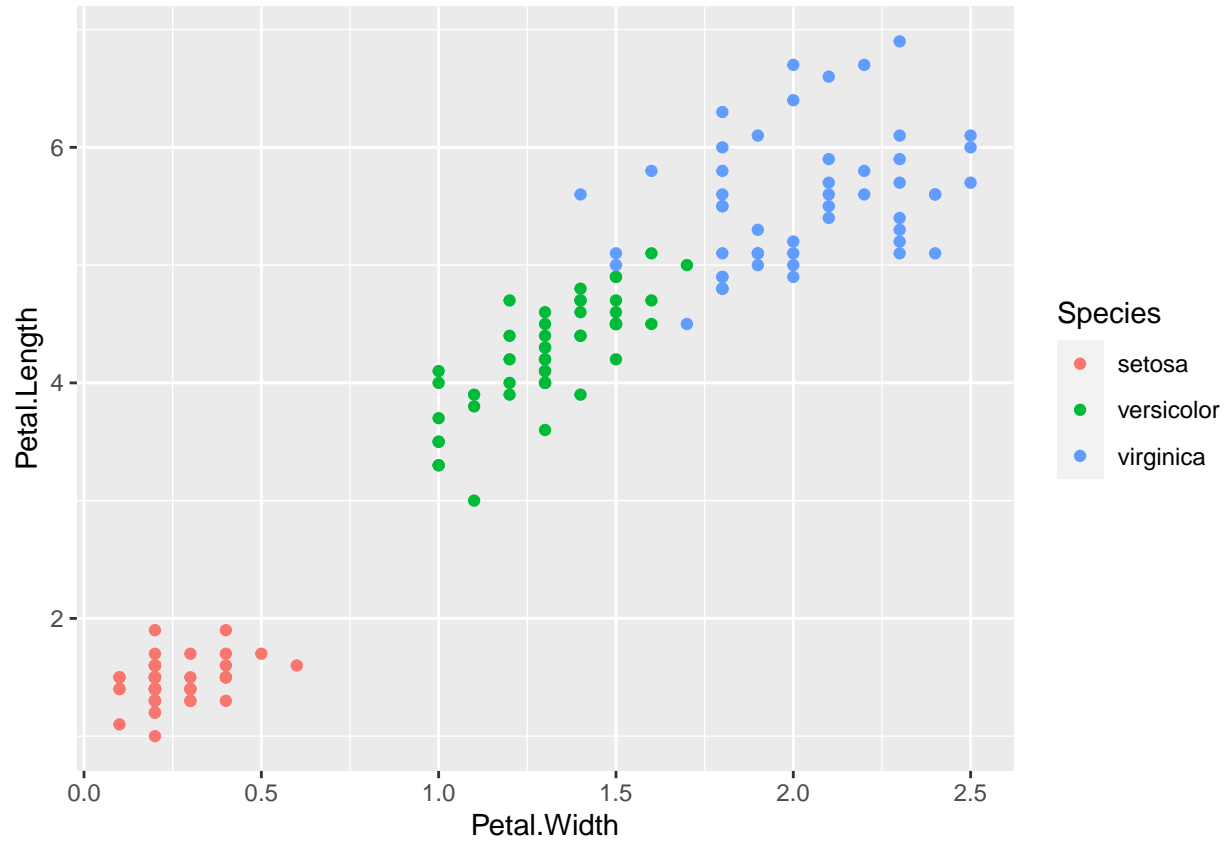And a wonderful scatterplot, with a caption.

Abbildung 8: This is a caption

4 Lightbox Plugin

Using the Magnific popup lightbox plugin for plots and images. To enable the plugin set `lightbox: TRUE` and for gallery support `gallery: TRUE` in the yaml header. To suppress the lightbox for a plot or image add the class `"no-image-lb"`.

4.1 Caption

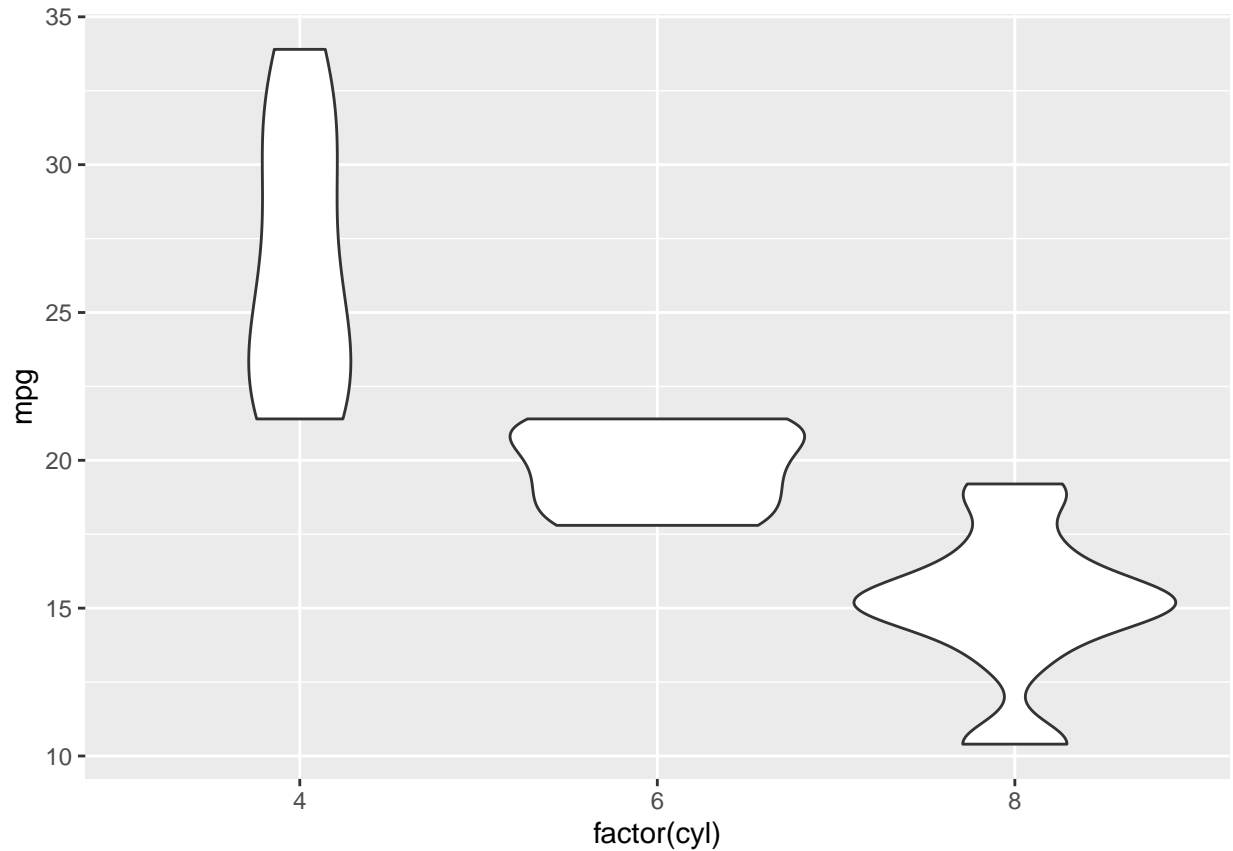Extracts the html from the figure caption. You can use any inline markdown syntax:

Abbildung 9: For ~~more~~ *Infos* **about** Violin plots see ggplot2 reference. Inline markdown: Superscripts 2nd, Subcripts H_2O, inline TeX math $2 + 2$, inline Code `echo 'hello'` and even footnotes[2]

4.2 Suppress lightbox

Adding the class `no-image-lb` to the image (with the pandoc extension: link_attributes) or plot (with `out.extra='class="no-image-lb"'`)

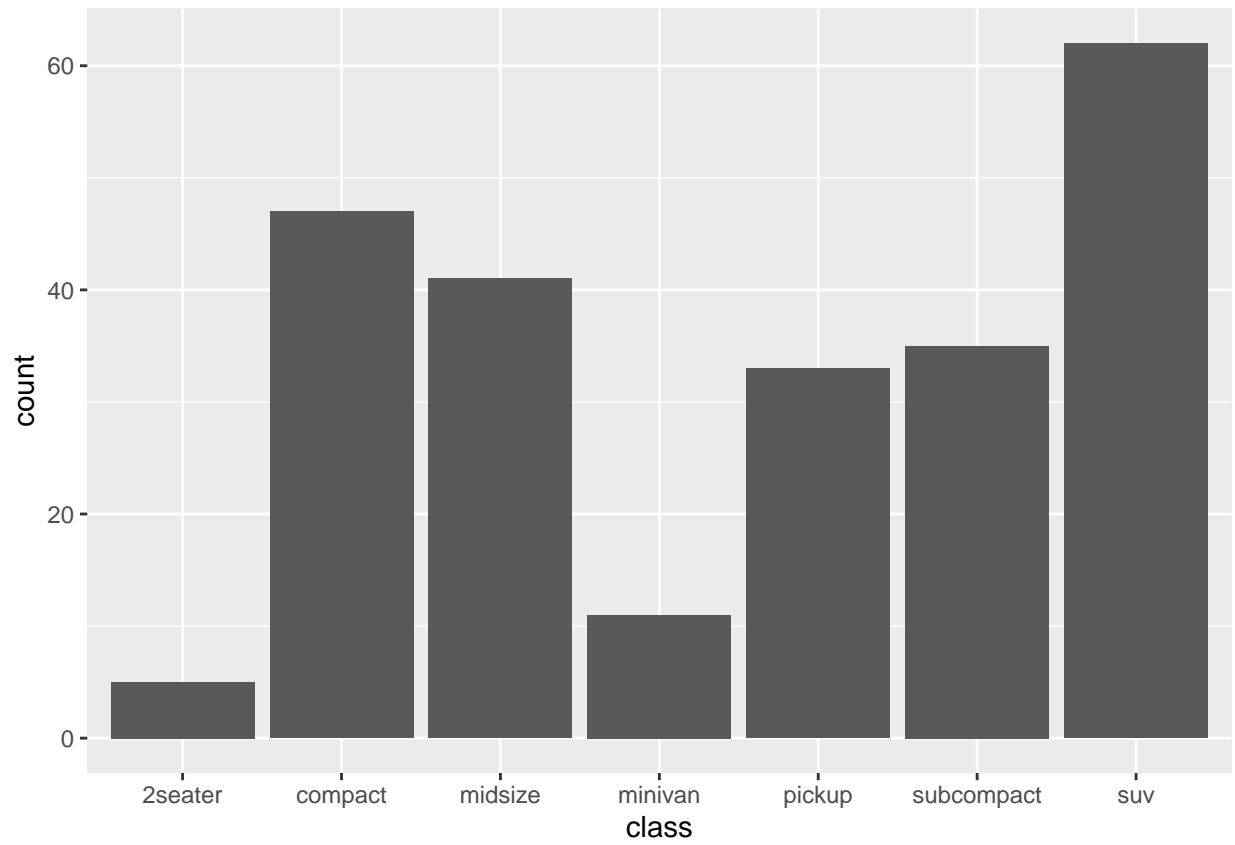Abbildung 10: Ostluft Logo without lightbox

---

[2]Footnote in figure caption

Abbildung 11: Number of cars in each class without lightbox