

testfile

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How to Start

1. You should have a working version of RStudio (From within RStudio, go to Help > Check for Updates to install newer version of RStudio (if available).)
2. Install and load Rmarkdown with `install.packages("Rmarkdown")` and `library(rmarkdown)`
3. You will be asked to give some information, that information will show up in your YAML header (which is some kind of human readable non-markup format)
 - Important: the header can tell `render()` what to output -> html for example

Basics

Flavor

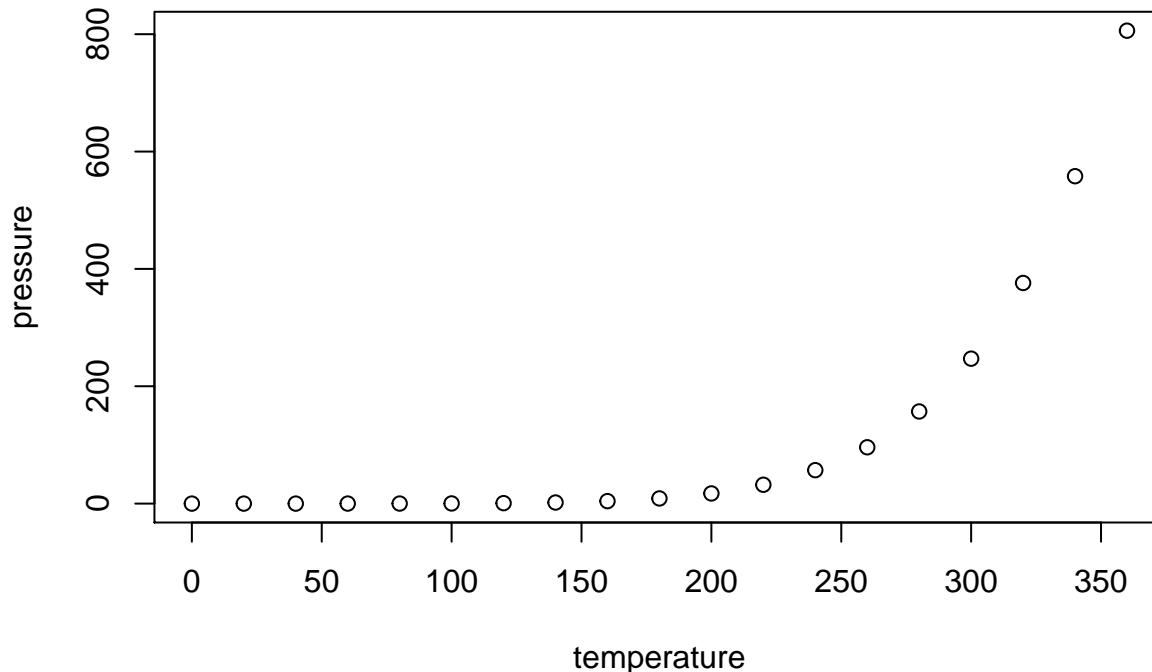
Rmarkdown has not the same “flavor” as GitHub Markdown... So unfortunately you will have to use a slightly different syntax for some things. - you have to use 4 spaces to indent a list element.

Code blocks:

- create code-blocks as you would do in normal Markdown.
- The difference is, that you can have actual executable code blocks in your R-Markdown file and decide if to render everything, just the results, just the plots or nothing.
- You have to declare a language in a `{r}` curly brackets syntax for this.

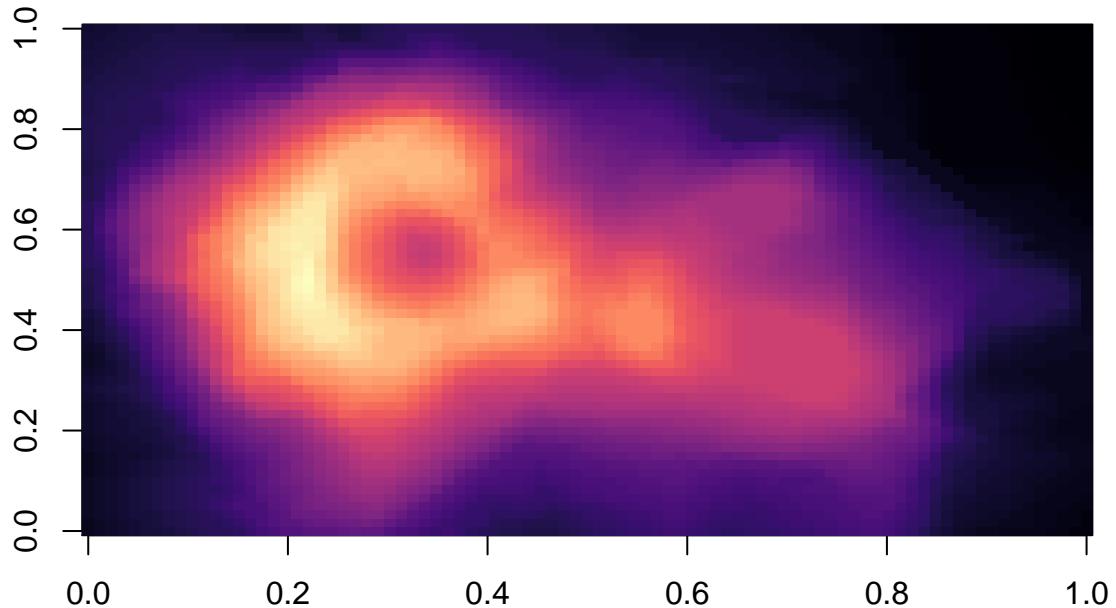
```
```{r, include=True, echo=False}
This is an R code block, which will be included in the rendered output file.
... It would not show the source code but the result/output/plot
... you only need three ```, the first one is necessary here
... to escape within the actual code block.
````
```

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

```
## Loading required package: viridisLite
```



Or just some table:

```
summary(cars)
```

```
##      speed          dist
##  Min.   : 4.0   Min.   : 2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean    :15.4   Mean    : 42.98
```

```
## 3rd Qu.:19.0 3rd Qu.: 56.00
## Max. :25.0  Max. :120.00
```

Rendering

- Rendering will make a pdf, TeX, HTML, notebook, ... or whatever-you-chose-file from your *.Rmd file.
 - You can Render from the command line (or from an R code block) with ‘`render(markdownfile.Rmd)`
 - To render your current Rmd File, use the shortcut: SHIFT+command+K (macOS) or CTRL+SHIFT+K (Windows)
- Now the Header comes in handy, we can tell it to make a Html document by writing:

```
title: "testfile"
author: "Jakob"
date: "3/25/2021"
output: html_document
```

get a TeX file

4. • For example you can use: {} title: "testfile" author: "Jakob" date: "3/25/2021" output: pdf_document: keep_tex: true citation_package: biblatex bibliography: bibliography.bib

Math Block

- as you know it from Markdown

$$\longrightarrow c_1 + c_2 * h\Sigma_{bottom}^{top}$$