

rmarkdownexample

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09 09 2021

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
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
```

Including Plots

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.

1. To start using R Markdown create a new .Rmd file: File - New File - R Markdown
2. If you chose the PDF format, install latex:

```
install.packages('tinytex')
tinytex::install_tinytex() # install TinyTeX
```

3. Three parts of the file:

- a YAML-header
- text written using Markdown
- chunks of code

```
2+2
```

```
## [1] 4
```

For chunks you can specify some parameters:

- echo: if you want to display the code
- message and warning
- eval: if you want to execute the code

Put this at the beginning of the document if you want to specify parameters for all the chunks:

```
knitr::opts_chunk$set(echo = TRUE, message = FALSE, warning = FALSE)
```

4. Help – Markdown Quick Reference
5. Handout on Markdown
6. Plots

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.5    v purrr   0.3.4
## v tibble  3.1.4    v dplyr  1.0.7
## v tidyr   1.1.3    v stringr 1.4.0
## v readr   2.0.1    v forcats 0.5.1
```

```
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

```
heroes <- read_csv("https://raw.githubusercontent.com/Pozdniakov/tidy_stats/master/data/heroes_informat
na = c("-", "-99"))
```

```
## New names:
## * ' ' -> ...1
```

```
## Rows: 734 Columns: 11
```

```
## -- Column specification -----
## Delimiter: ","
## chr (8): name, Gender, Eye color, Race, Hair color, Publisher, Skin color, A...
## dbl (3): ...1, Height, Weight
```

```
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
height_weight_gg <- heroes %>%
  mutate(Publisher = ifelse(Publisher %in% c("Marvel Comics", "DC Comics"),
                             Publisher,
                             "Other publishers")) %>%
  filter(Weight < 700 & Height < 400) %>%
  ggplot(aes(x = Height, y = Weight)) +
  geom_point(aes(colour = Gender), alpha = 0.5) +
  coord_fixed() +
  facet_wrap(~Publisher)+
  theme_minimal()
```

```
## Warning: One or more parsing issues, see 'problems()' for details
```

```
height_weight_gg
```

