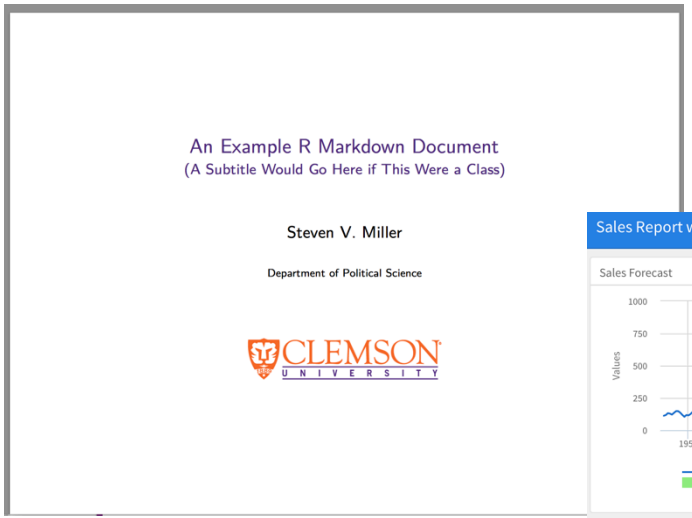
```
library(dplyr)

rladies_global %>%
  filter(city == 'Berlin')
```

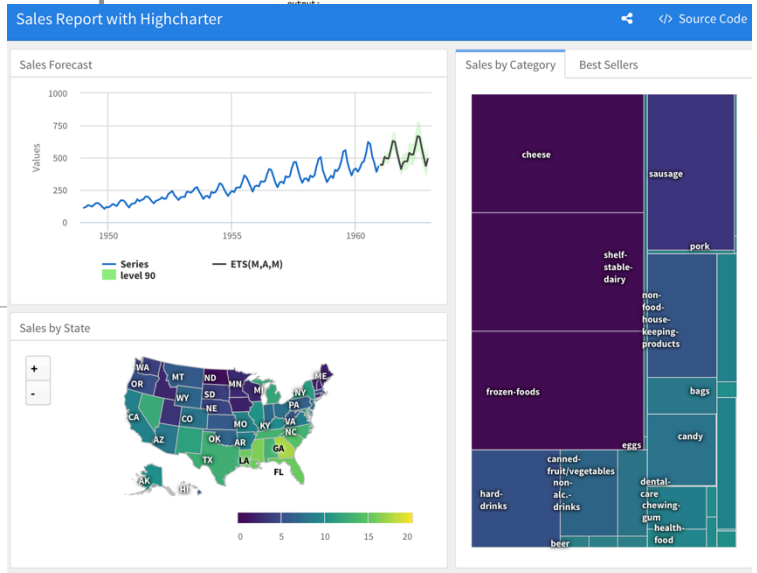
#3 Hands-on
R markdown & friends

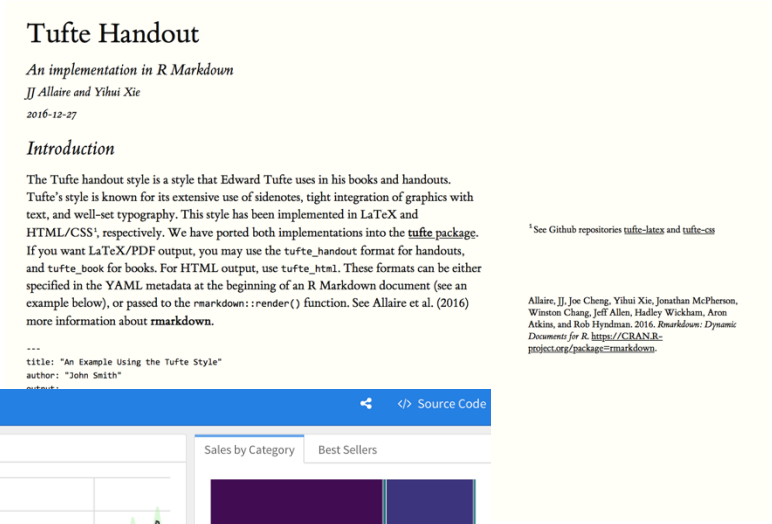
1.
R markdown in a nutshell

Developed by John Gruber (*1973), Philadelphia, USA
writer, blog publisher, UI designer

Gallery







Tufte Handout

An implementation in R Markdown

JJ Allaire and Yihui Xie

2016-12-27

Introduction

The Tufte handout style is a style that Edward Tufte uses in his books and handouts. Tufte's style is known for its extensive use of sidenotes, tight integration of graphics with text, and well-set typography. This style has been implemented in LaTeX and HTML/CSS[1], respectively. We have ported both implementations into the **tufte** package. If you want LaTeX/PDF output, you may use the `tufte_handout` format for handouts, and `tufte_book` for books. For HTML output, use `tufte_html`. These formats can be either specified in the YAML metadata at the beginning of an R Markdown document (see an example below), or passed to the `rmarkdown::render()` function. See Allaire et al. (2016) more information about **rmarkdown**.

```
---
title: "An Example Using the Tufte Style"
author: "John Smith"
```

[1] See Github repositories tufte-latex and tufte-css

Allaire, JJ, Joe Cheng, Yihui Xie, Jonathan McPherson, Winston Chang, Jeff Allen, Hadley Wickham, Aron Atkins, and Rob Hyndman. 2016. *Rmarkdown: Dynamic Documents for R.* https://CRAN.R-project.org/package=rmarkdown.

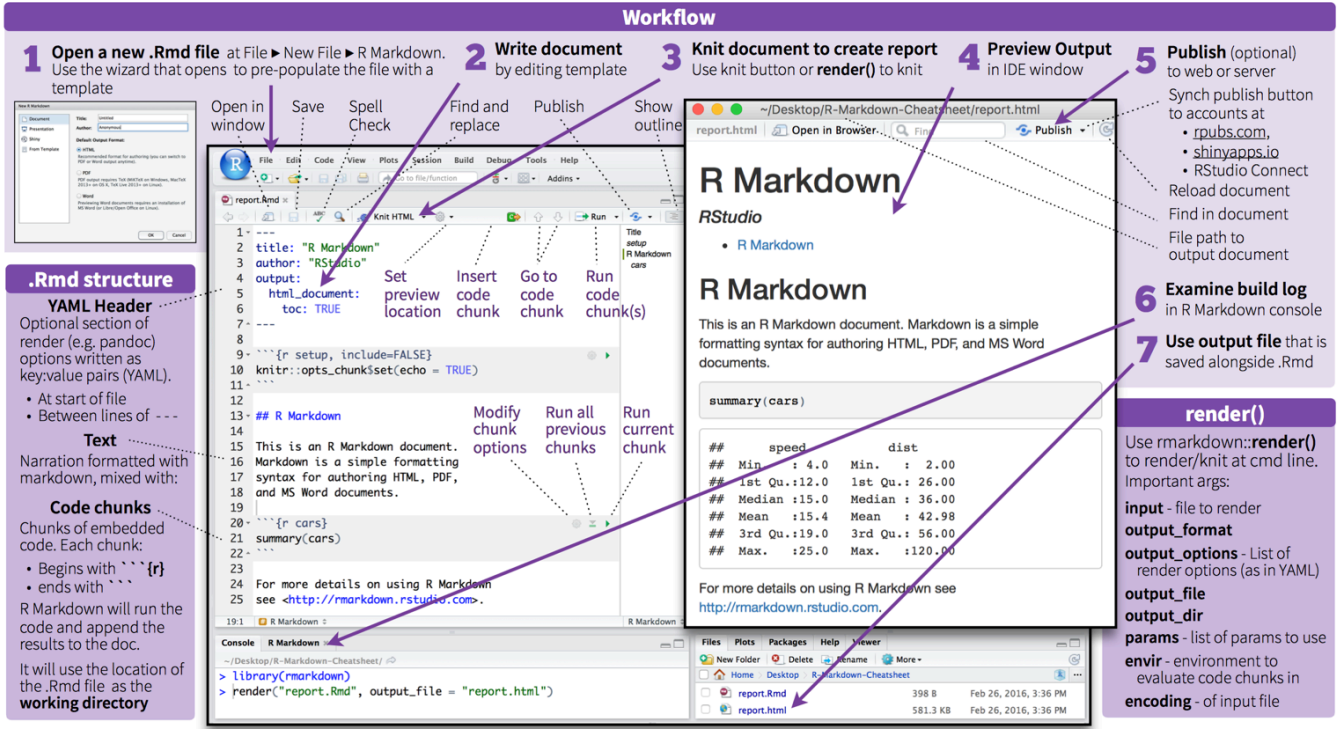
The principle of R markdown

R Markdown is a file format for making dynamic documents with **R**.

An **R Markdown** document is written in **markdown** (an easy-to-write plain text format) and contains chunks of embedded **R** code.

R Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents.

Processing of R markdown file



Processing of R markdown file

Part 1 - How to create a .Rmd file

Part 2 - How to specify the appearance of my output

2.
Grammar of R markdown

Detailed documentation
http://rmarkdown.rstudio.com/

Everything at one glance
R markdown cheat sheet

R markdown gallery

3.
Let’s get started!

Get to know our GitHub repo and find all required material:
github.com/rladies/meetup-presentations_berlin/

- Download R-Ladies Berlin Git repo
- Copy slides and tutorial material
- Open Rstudio project
- Install R markdown (install.packages(‘rmarkdown’)

4. It's your turn!

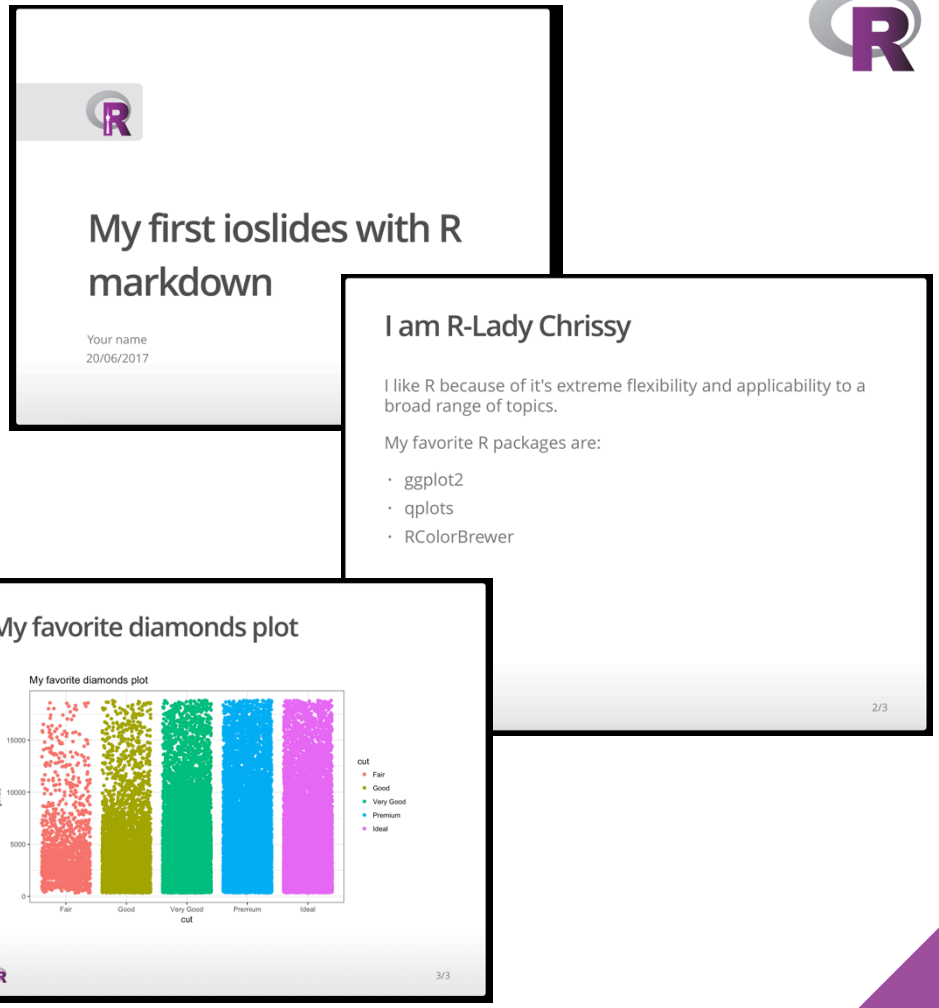
Create your first R markdown based ioslide presentation! And tell us something about **you**!

Hint #1 Create a new Rmd-file, have a look at the choice of options

Hint #2 For the logo at the title slide modify the YAML header

```
output:
  ioslides_presentation:
    logo: filename.pdf
```

Hint #3 Have a look at the R markdown cheat sheet!





We’re Chrissy, Hanna & Noa

We recently got together to form the Berlin chapter of R-Ladies. You can follow our activity (and help us spread the word) on @RLadiesBerlin and sign up for upcoming events on rladies-berlin.