### Present your Data Science Project

with Rmarkdown

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Image credit: rmarkdown package

### rmarkdown

R has excellent utilities for reporting and communication including rmarkdown (a method for integrating code, graphical output, and text into a journal-quality report) and Shiny.

To install the rmarkdown package in R:

```
# Install from CRAN
install.packages('rmarkdown')

# install from GitHub
devtools::install_github('rstudio/rmarkdown')
```

### **RStudio Formats**

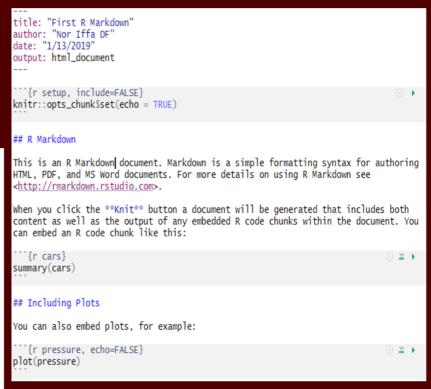
- Documents (PDF, HTML, Notebook, Word)
- Presentation (ioslides, reveal.js, Slidy, Powerpoint)
- Journals (JSS, ACM, ACS, ctex, Elvesiers Journal)
- Shiny
- More (flexdashboard, bookdown, blogdown, tufte)

### Quick intro rmarkdown

Create a new R markdown from the menu File -> New File -> R Markdown

# An R Markdown Document

#### 



## Rpubs

- If you dont want to publish a whole website
- You can just publish r markdown html output to Rpubs

Example: http://rpubs.com/niffadf16/first\_rmd

#### RPubs brought to you by RStudio

#### First R Markdown

Nor Iffa DF 1/13/2019

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

#### Including Plots

## Examples

- Airbnb uses R Markdown to document all their analyses in R, so they can combine code and data visualizations in a single report. Bion, Chang, and Goodman 2018
- Writing blog using blogdown Rob J Hyndman's personal website:
   https://robjhyndman.com (a very comprehensive academic website)
- This slide.

## Keep in touch

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### Thanks!

Slides created via the R package xaringan