

Assignment #1

Your Name

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1 Housekeeping

1.1 Packages

```
## Load packages
library(broom)
library(car)
library(conflicted)
library(glue)
library(kableExtra)
library(knitr)
library(skimr)
library(tidyverse)

## Prefer over all other packages
conflict_prefer("filter", "dplyr")
```

1.2 Functions

```
## Create function that doubles the input digit
double_it <- function(number){
  double = number * 2
  return(double)
}
```

1.3 Data

```
## Load raw data
df <- read_csv("data/favorability_polls.csv")
```

2 Exploratory data analysis

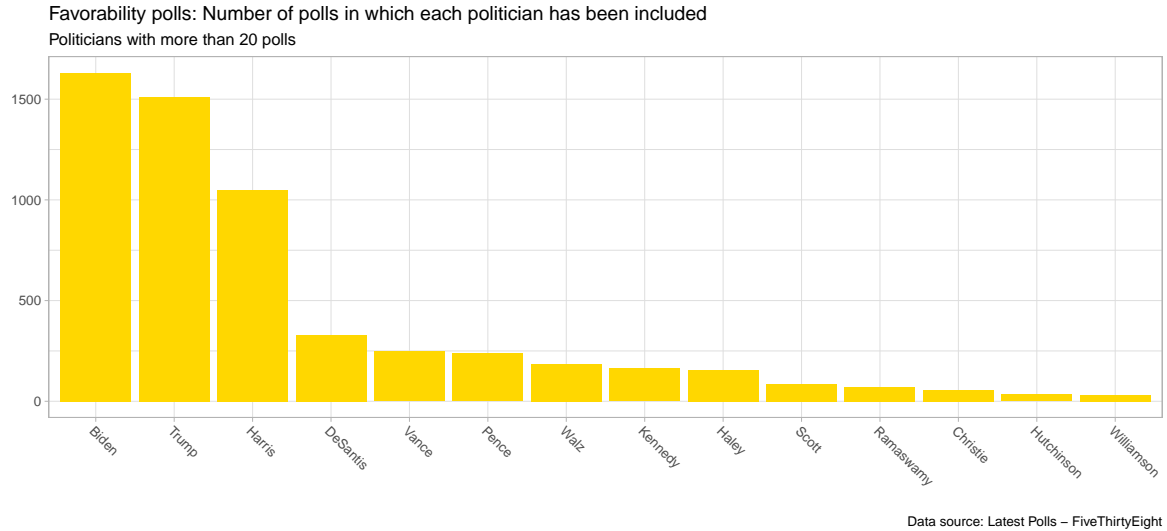
A cool thing about Quarto is that you can manage your bibliography and references; for instance:

According to Wickham, Çetinkaya-Rundel, and Grolemund (2023), we conduct exploratory data analysis, among other things, to generate questions about the data or refine the questions we already have.

To do so, you just need to copy the BibTeX reference from Google Scholar and paste it into the *references.bib* file located in the working directory.

You can also include code and showcase code output:

```
df |>
  count(politician) |>
  arrange(desc(n)) |>
  filter(n > 20) |>
  mutate(
    politician = gsub(".* ", "", politician),
    politician = factor(politician, levels = politician)
  ) |>
  ggplot(aes(x = politician, y = n)) +
  geom_bar(stat = "identity", fill = "gold") +
  theme_light() +
  theme(axis.text.x = element_text(angle = -45, hjust = 0)) +
  labs(
    title = "Favorability polls: Number of polls in which each
    ↪ politician has been included",
    subtitle = "Politicians with more than 20 polls",
    x = "",
    y = "",
    caption = "Data source: Latest Polls - FiveThirtyEight"
  )
```



Moreover, you can insert \LaTeX math:

$$\bar{y} = \frac{1}{n} \sum_{i=1}^n y_i$$

You can also insert inline \LaTeX math: $\bar{y} = \frac{1}{n} \sum_{i=1}^n y_i$

! Install extension

If the iconic \LaTeX string is not rendering in your computer, you must run the following command in the RStudio Terminal:

```
quarto add quarto-ext/fancy-text
```

This Quarto document has very extensive YAML metadata. Feel free to change parameters and customize the PDF outcome the way you find prettier.

Remember, this model Quarto document is included in a [open-access GitHub repository](#). Please read the blog post I wrote about it.

References

Wickham, Hadley, Mine Çetinkaya-Rundel, and Garrett Grolmund. 2023. *R for Data Science*. " O'Reilly Media, Inc."