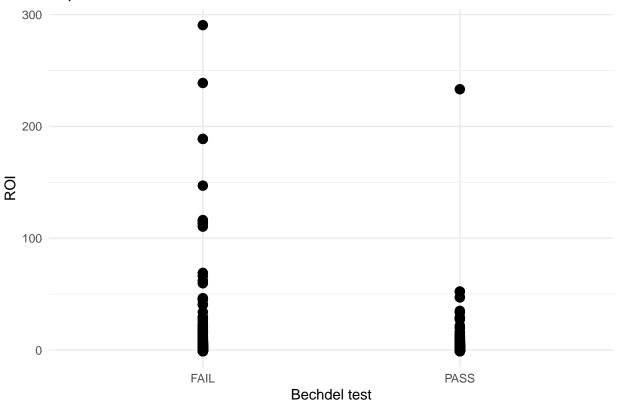# wk5-visualization

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```r
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```r
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----------------------- tidyverse 2.0.0 --
## v forcats   1.0.0      v readr     2.1.4
## v ggplot2   3.4.2      v stringr   1.5.0
## v lubridate 1.9.2      v tibble    3.2.1
## v purrr     1.0.1      v tidyr     1.3.0

## -- Conflicts ----------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```r
library(knitr)
library(bslib)
```

```
##
## Attaching package: 'bslib'
##
## The following object is masked from 'package:utils':
##
##     page
```

```r
download.file(url = "https://raw.githubusercontent.com/fivethirtyeight/data/master/bechdel/movies.csv",
movies<-read.csv("movies.csv", stringsAsFactors = FALSE)
movies_df <- as.data.frame(movies)
movies <- movies %>%
  mutate(budget = as.numeric(gsub("[^0-9.-]", "", budget)),
    domgross = as.numeric(gsub("[^0-9.-]", "", domgross)), roi = (domgross - budget) / budget)

bechdel_roi <- ggplot(movies, aes(x = binary, y = roi)) +
  geom_point(size = 3) +
  labs(title = "Impact of bechdel test on movies ROI",
```

```
        x = "Bechdel test",
        y = "ROI") +
  theme_minimal()

intbudget <- ggplot(movies, aes(x = budget, y = intgross, color = binary)) +
  geom_point(size = 3) +
  labs(title = "Budget vs International Gross Revenue",
       x = "Budget",
       y = "International Gross Revenue",
       color = "Bechdel Test") +
  theme_minimal()

print(bechdel_roi)
```

```
## Warning: Removed 17 rows containing missing values (`geom_point()`).
```


Impact of bechdel test on movies ROI

```
print(intbudget)
```

Budget vs International Gross Revenue