

- Load the `fivethirtyeight` package, and read in the data set named `bechdel`.

```
library(fivethirtyeight)
data(bechdel)

## # A tibble: 6 x 15
##   year imbd title test clean_test binary budget domgross intgross code
##   <int> <chr> <chr> <ord>      <chr>   <int>   <dbl>    <dbl> <chr>
## 1 2013 tt17~ 21 ~ nota~ notalk     FAIL  1.30e7 25682380  4.22e7 2013~
## 2 2012 tt13~ Dred~ ok-d~ ok       PASS  4.50e7 13414714  4.09e7 2012~
## 3 2013 tt20~ 12 Y~ nota~ notalk     FAIL  2.00e7 53107035  1.59e8 2013~
## 4 2013 tt12~ 2 Gu~ nota~ notalk     FAIL  6.10e7 75612460  1.32e8 2013~
## 5 2013 tt04~ 42 men   men        FAIL  4.00e7 95020213  9.50e7 2013~
## 6 2013 tt13~ 47 R~ men   men        FAIL  2.25e8 38362475  1.46e8 2013~
## # ... with 5 more variables: budget_2013 <int>, domgross_2013 <dbl>,
## #   intgross_2013 <dbl>, period_code <int>, decade_code <int>
```

- Display a quick summary of the `bechdel` data.

```
skim(bechdel)
```

- Calculate the number of cases in the data.

```
bechdel %>%
  count()
```

- Make a new variable, `gross_prop`, which is the ratio of `domgross` and `intgross`

```
bechdel %>%
  mutate(gross_prop = domgross/intgross)
```

- Calculate the mean `domgross` for all movies

```
bechdel %>%
  summarize(mean(domgross))
```

- Calculate the mean `domgross` separately for movies that passed and failed the test

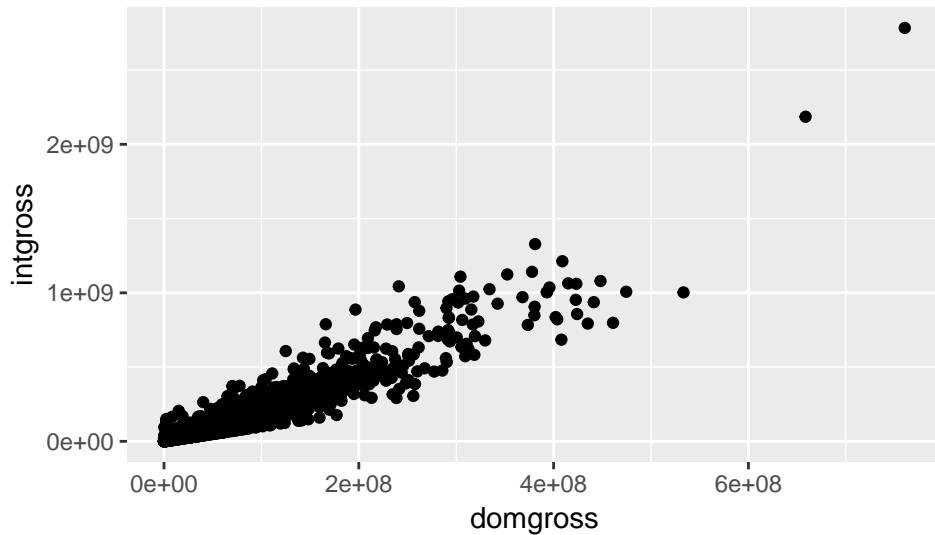
```
bechdel %>%
  group_by(binary) %>%
  summarize(mean(domgross))
```

- Make a new dataset called `passed`, which is only the movies that passed the test

```
passed <- bechdel %>%
  filter(binary == TRUE)
```

8. Make a scatterplot of `domgross` versus `intgross`:

```
ggplot(bechdel) +  
  geom_point(aes(x=domgross, y=intgross))
```



9. Make scatterplots of `domgross` versus `intgross` for each category of `clean_test`

```
ggplot(bechdel) +  
  geom_point(aes(x=domgross, y=intgross)) +  
  facet_wrap(.~clean_test)
```

