

# WAL Data Analysis

```
usethis::use_git_config(user.name = "hanastepnick", user.email = "hana.stepnick@duke.edu")
```

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse
```

```
## v tibble 3.0.3    v purrr 0.3.4
## v tidyr  1.1.1    v dplyr 1.0.1
## v readr  1.3.1    v forcats 0.5.0
```

```
## -- Conflicts ----- tidyverse
```

```
## x lubridate::as.difftime() masks base::as.difftime()
## x lubridate::date()        masks base::date()
## x dplyr::filter()          masks stats::filter()
## x readr::guess_encoding()  masks rvest::guess_encoding()
## x lubridate::intersect()   masks base::intersect()
## x dplyr::lag()              masks stats::lag()
## x purrr::pluck()           masks rvest::pluck()
## x lubridate::setdiff()     masks base::setdiff()
## x lubridate::union()       masks base::union()
```

```
library(infer)
```

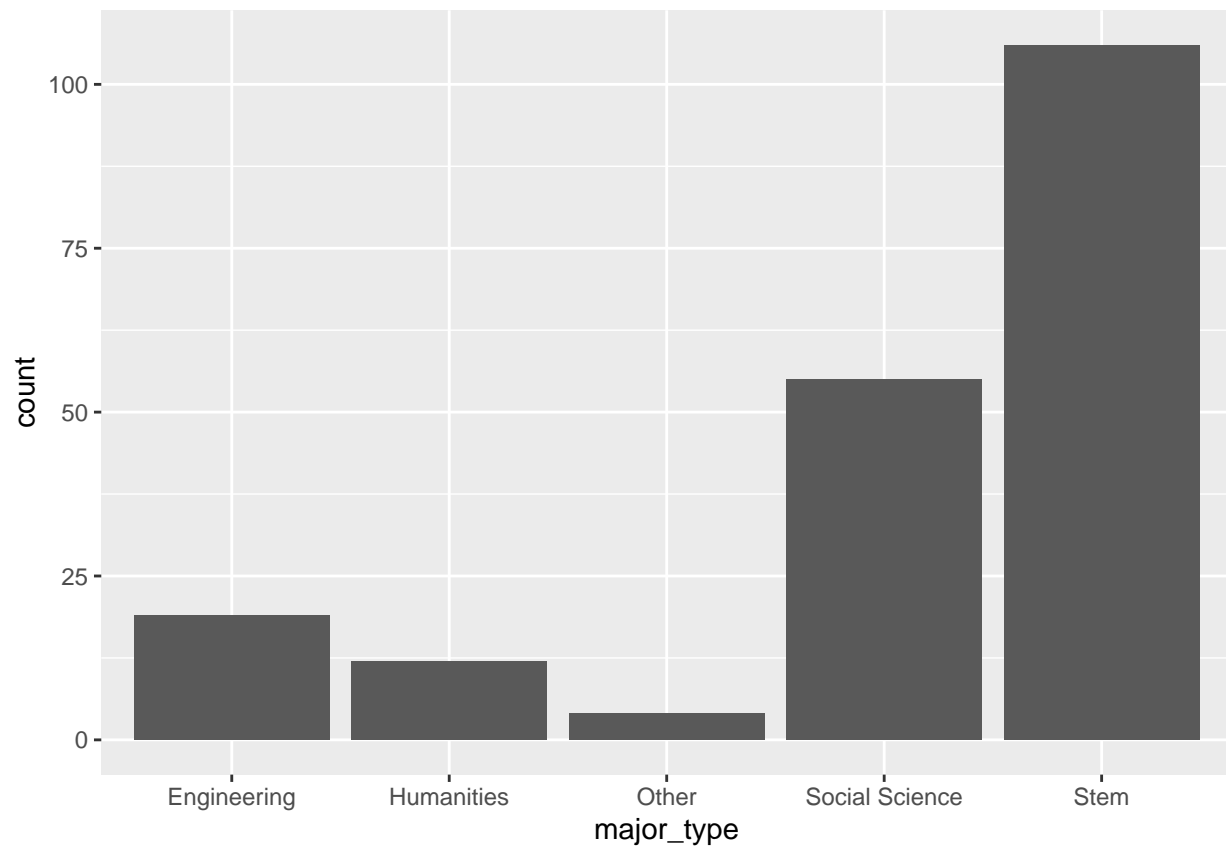
```
wal <- read_csv("wal.csv")
```

```
## Parsed with column specification:
```

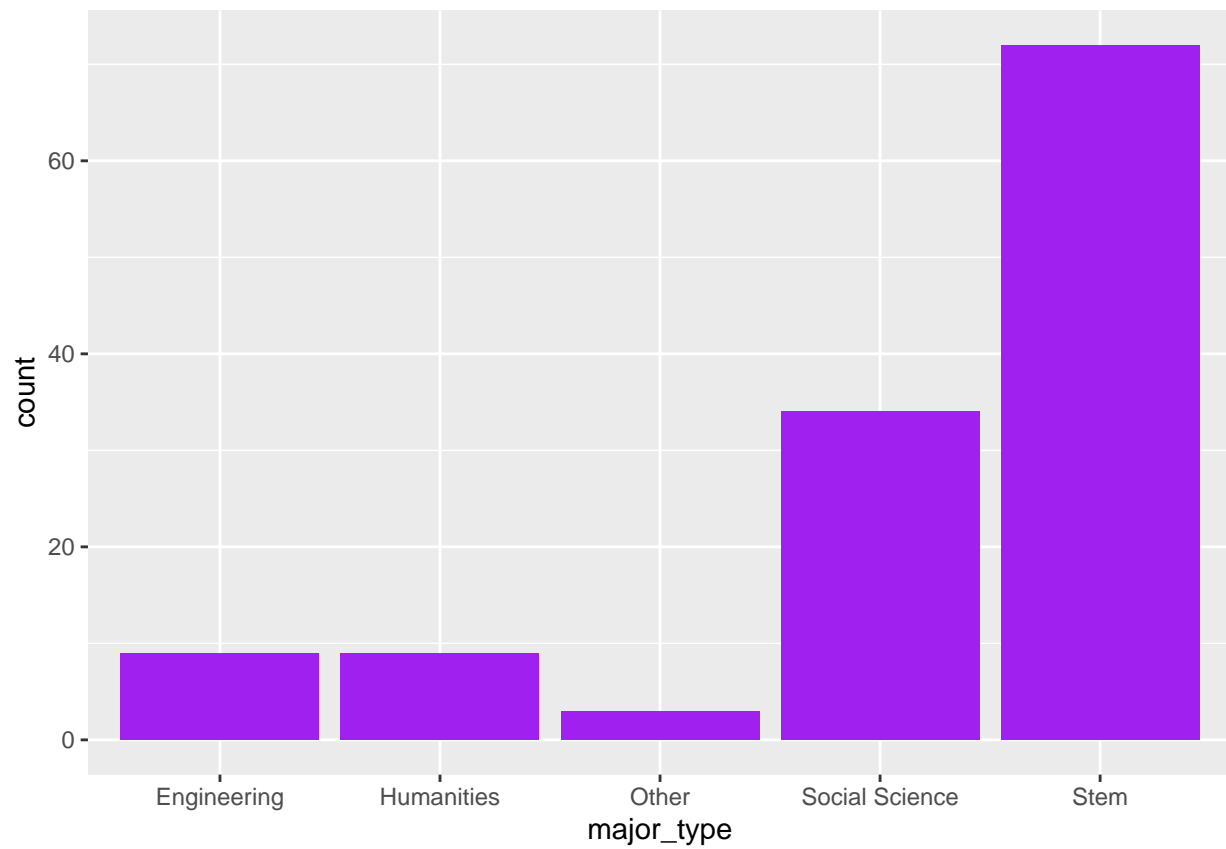
```
## cols(
##   year = col_character(),
##   major = col_character(),
##   major_type = col_character(),
##   hispanic = col_character(),
##   race = col_character(),
##   ask_question = col_double(),
##   answer_question = col_double(),
##   reach_male = col_double(),
##   reach_female = col_double(),
##   lead_group = col_double(),
##   disagree = col_double(),
##   accountable = col_double(),
##   breakdown = col_double(),
##   gender = col_character()
## )
```

```
majors <- wal %>%
  distinct(major)
```

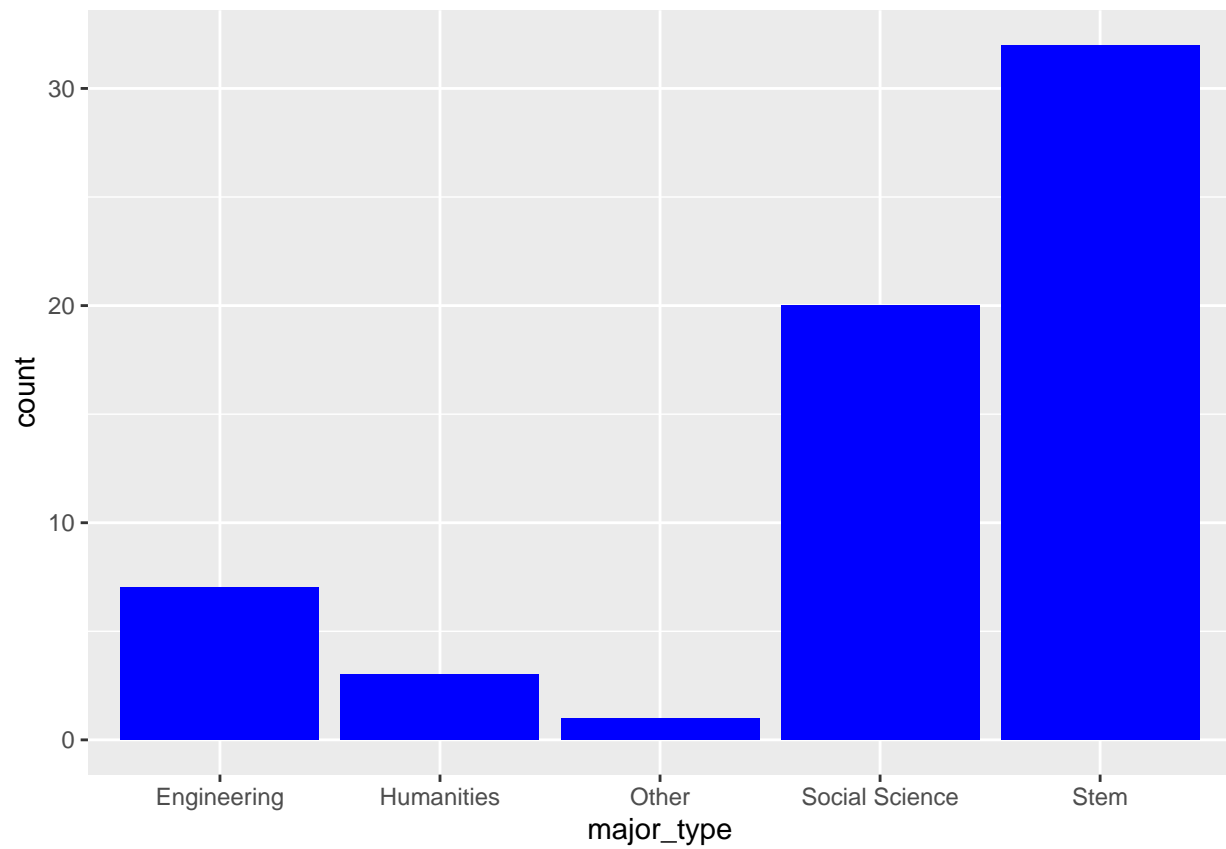
```
ggplot(data = wal, mapping = aes(x = major_type)) +
  geom_bar()
```



```
wal_female <- wal %>%  
  filter(gender == "Female")  
  
ggplot(data = wal_female, mapping = aes(x = major_type)) +  
  geom_bar(fill = "purple")
```



```
wal_male <- wal %>%  
  filter(gender == "Male")  
  
ggplot(data = wal_male, mapping = aes(x = major_type)) +  
  geom_bar(fill = "blue")
```



```
mean(wal_female$ask_question, na.rm = FALSE)
```

```
## [1] 3.661417
```

```
mean(wal_male$ask_question, na.rm = FALSE)
```

```
## [1] 3.698413
```