Simple document

```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.3.6      v purrr   0.3.4
## v tibble  3.1.8      v dplyr   1.0.10
## v tidyr   1.2.0      v stringr 1.4.1
## v readr   2.1.2      v forcats 0.5.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

I'm an R Markdown document!

Section 1

Here's a **code chunk** that samples from a *normal distribution*:

```
samp = rnorm(100)
length(samp)
```

```
## [1] 100
```

Section 2

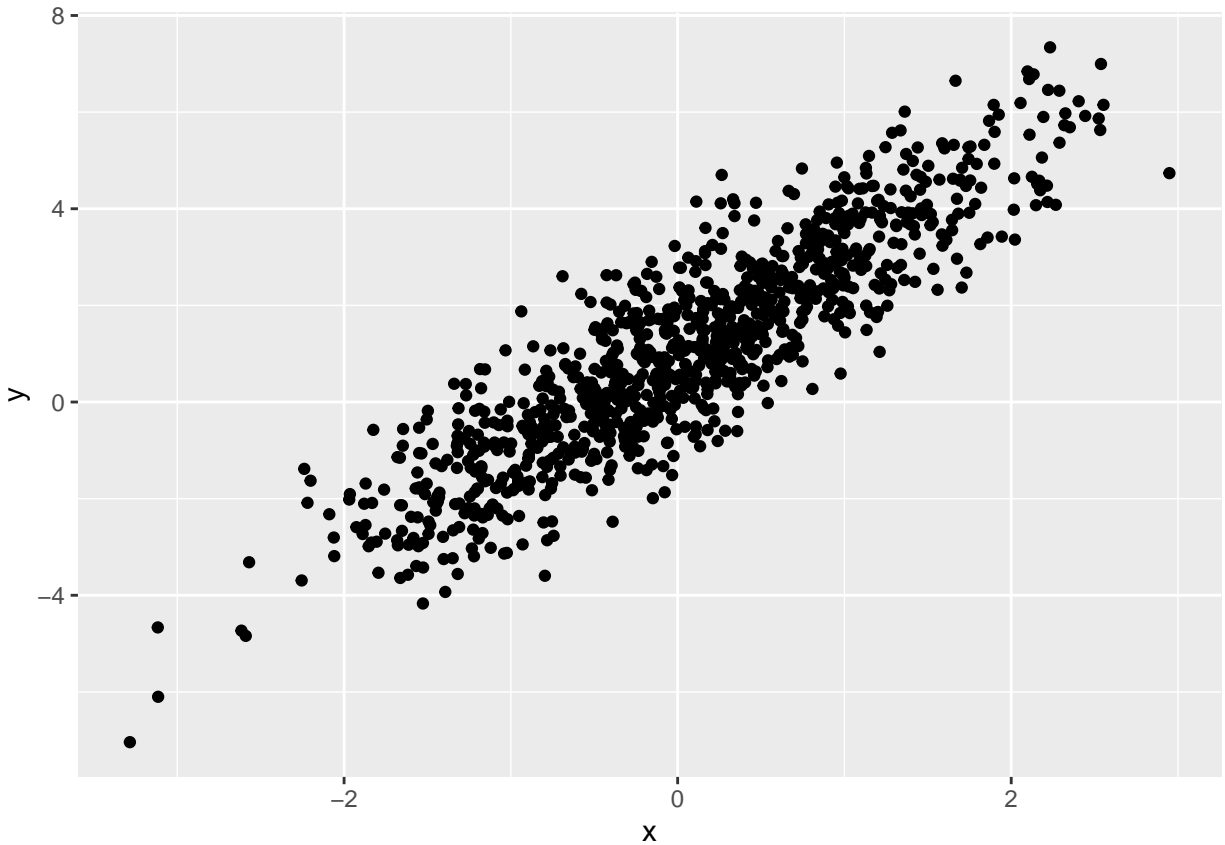I can take the mean of the sample, too! The mean is -0.05.

Section 3

Plotting from last lecture

This is going to make a plot! First I generate a dataframe, then use `ggplot` to make scatterplot.

```
plot_df =
  tibble(
    x = rnorm(n = 1000),
    y = 1 + 2 * x + rnorm(n = 1000)
  )

ggplot(plot_df, aes(x = x, y = y)) + geom_point()
```
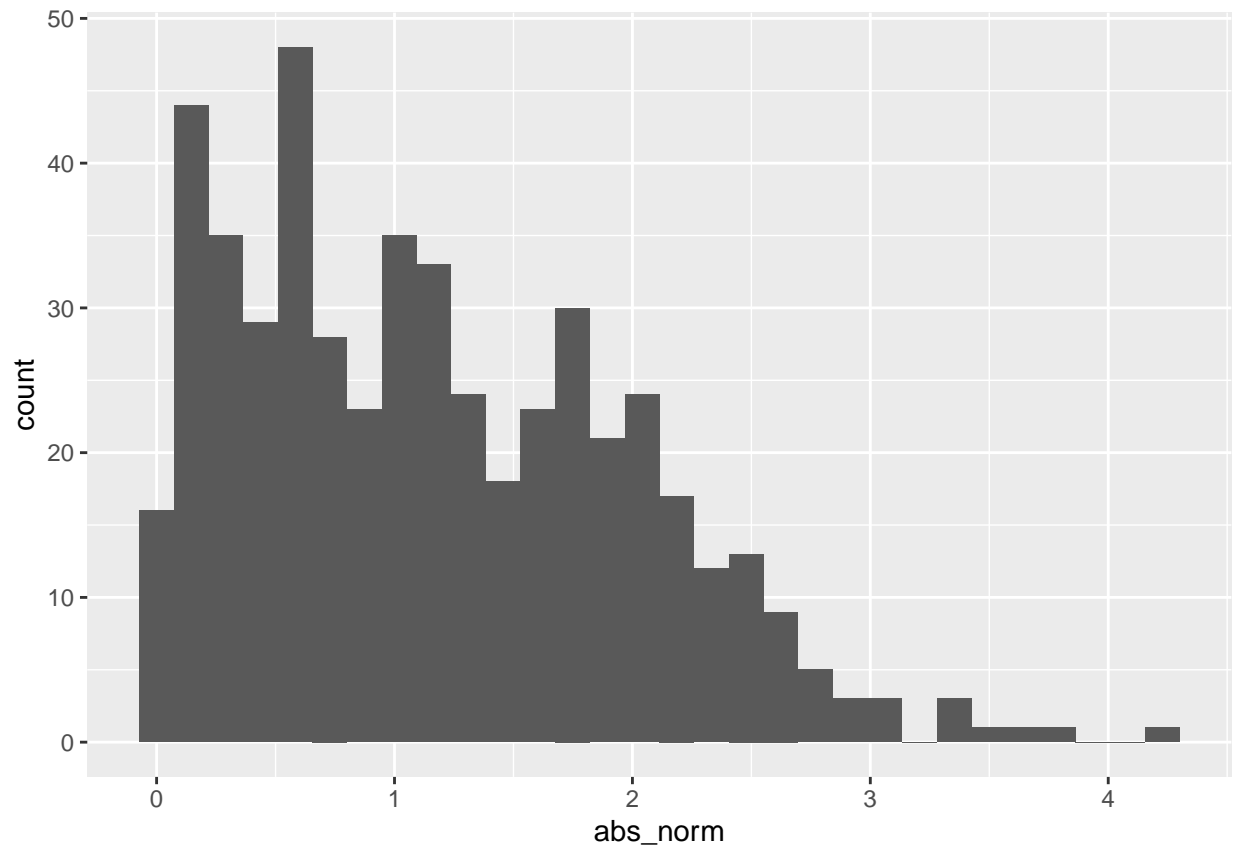
Plotting for LA

This is going to practice learning assessment

```
la_df = tibble(
  norm = rnorm(500, mean = 1),
  norm_logic = norm > 0,
  abs_norm = abs(norm)
)

ggplot(la_df, aes(x = abs_norm)) + geom_histogram()
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

```
median = median(la_df$norm)
```

The median is 1.07