Demo R Markdown for CS Class

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R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

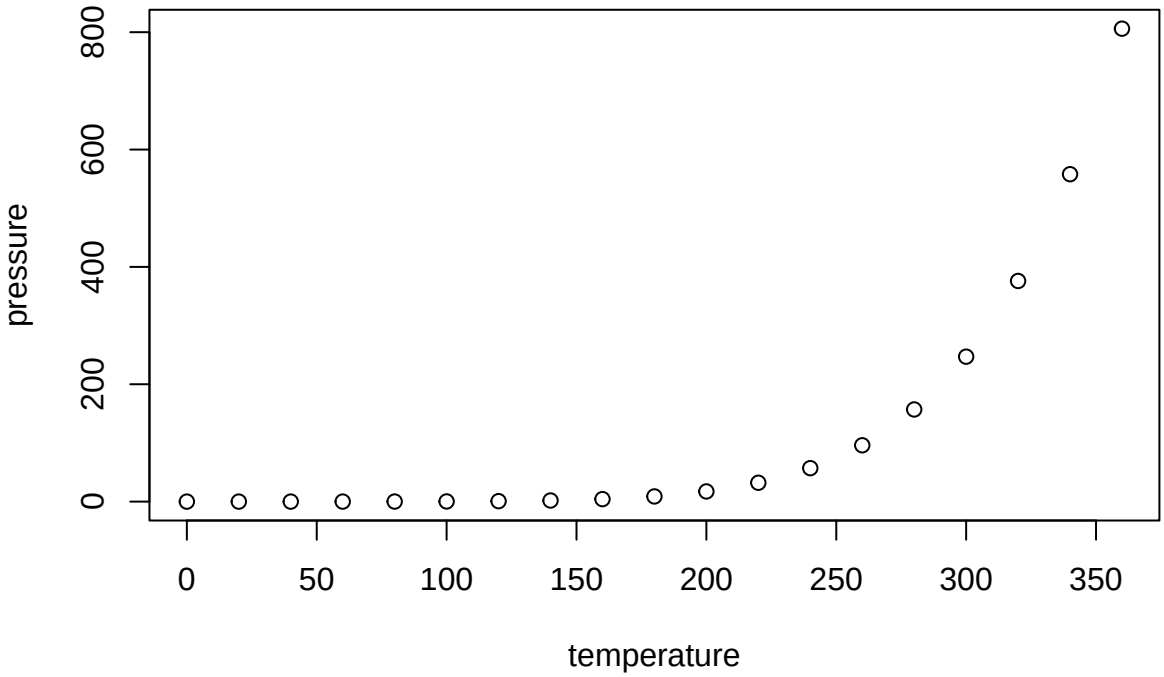
And this is a demo document

```
summary(cars)
```

```
##      speed           dist       
##  Min.   : 4.0   Min.   :  2.00  
##  1st Qu.:12.0   1st Qu.: 26.00  
##  Median :15.0   Median : 36.00  
##  Mean   :15.4   Mean   : 42.98  
##  3rd Qu.:19.0   3rd Qu.: 56.00  
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

Now I'm going to introduce some of my own data.

I'll first load the packages:

```
##
## 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
```

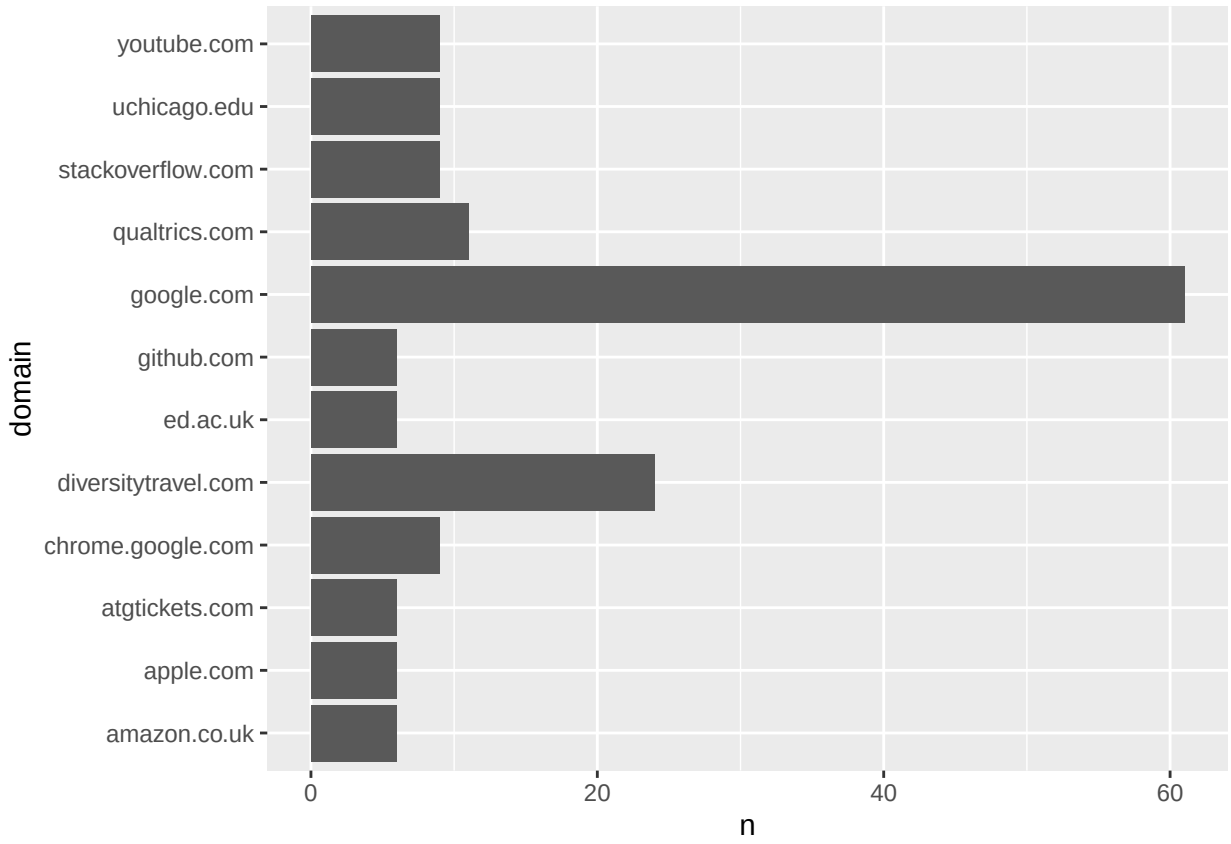
```
wbdata <- jsonlite::fromJSON(gzcon(url("https://github.com/cjbarrie/CS-ED/blob/main/data/web_historian_
```

And now I'm going to count some of its properties:

```
wbdata_mp <- wbdata %>%
  group_by(domain) %>%
  count() %>%
  filter(n >5)
```

And now I'm going to plot it

```
wbdata_mp %>%
  ggplot() +
  geom_bar(aes(domain, n), stat = "identity") +
  coord_flip()
```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domain
0
20
40
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