My first R Markdown Document

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# Data Transformation

We like to use dplyr for data transformation.

## Filtering

If I want to filter my data, use filter(). Here is an example:

## mpg cyl disp hp drat wt qsec vs am gear carb  
## 1 22.8 4 108.0 93 3.85 2.320 18.61 1 1 4 1  
## 2 21.4 6 258.0 110 3.08 3.215 19.44 1 0 3 1  
## 3 24.4 4 146.7 62 3.69 3.190 20.00 1 0 4 2  
## 4 22.8 4 140.8 95 3.92 3.150 22.90 1 0 4 2  
## 5 32.4 4 78.7 66 4.08 2.200 19.47 1 1 4 1  
## 6 30.4 4 75.7 52 4.93 1.615 18.52 1 1 4 2  
## 7 33.9 4 71.1 65 4.22 1.835 19.90 1 1 4 1  
## 8 21.5 4 120.1 97 3.70 2.465 20.01 1 0 3 1  
## 9 27.3 4 79.0 66 4.08 1.935 18.90 1 1 4 1  
## 10 26.0 4 120.3 91 4.43 2.140 16.70 0 1 5 2  
## 11 30.4 4 95.1 113 3.77 1.513 16.90 1 1 5 2  
## 12 21.4 4 121.0 109 4.11 2.780 18.60 1 1 4 2

## Select

We can use the select() function to select specific variables of interest

## mpg cyl disp  
## 1 22.8 4 108.0  
## 2 21.4 6 258.0  
## 3 24.4 4 146.7  
## 4 22.8 4 140.8  
## 5 32.4 4 78.7  
## 6 30.4 4 75.7  
## 7 33.9 4 71.1  
## 8 21.5 4 120.1  
## 9 27.3 4 79.0  
## 10 26.0 4 120.3  
## 11 30.4 4 95.1  
## 12 21.4 4 121.0

# Visualization

We like to use ggplot2 for visualization

