

RWorksheet\_guion#4c.Rmd.

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1.
  - a. Show your solutions on how to import a csv file into the environment.
  - b. Which variables from mpg dataset are categorical?
  - c. Which are continuous variables?
2. Which manufacturer has the most models in this data set? Which model has the most variations? Show your answer.
  - a. Group the manufacturers and find the unique models. Show your codes and result.
  - b. Graph the result by using plot() and ggplot(). Write the codes and its result.
2. Same dataset will be used. You are going to show the relationship of the model and the manufacturer.
  - a. What does ggplot(mpg, aes(model, manufacturer)) + geom\_point() show?
  - b. For you, is it useful? If not, how could you modify the data to make it more informative?
3. Plot the model and the year using ggplot(). Use only the top 20 observations. Write the codes and its results.
4. Using the pipe (%>%), group the model and get the number of cars per model. Show codes and its result
  - a. Plot using geom\_bar() using the top 20 observations only. The graphs should have a title, labels and colors. Show code and results.
  - b. Plot using the geom\_bar() + coord\_flip() just like what is shown below. Show codes and its result.
5. Plot the relationship between cyl - number of cylinders and displ - engine displacement using geom\_point with aesthetic color = engine displacement. Title should be "Relationship between No. of Cylinders and Engine Displacement".
  - a. How would you describe its relationship? Show the codes and its result.
6. Plot the relationship between displ (engine displacement) and