CS5720: Data Visualization R. M. Parry

1. Using the vehicle dataset, write a program that produces Figure 1.41 (First Edition) or Figure 1.47 (Second Edition) from the textbook. You can download the data here:

http://cs.appstate.edu/~rmp/cs5720/cars04.csv

Label the axes and provide a title. Use the color to represent vehicle type and size to represent weight (area proportional to weight). In addition to your code, provide a bash script that executes it with the path to the CSV file provided on the command line. Usage should be like this:

\$ bash fig_1_47.sh /home/user/cars04.csv

The bash script runs your program using the provided file. For example, if you write a Python program the bash script might look like this:

#!/bin/bash

/opt/anaconda3/bin/python fig_1_47.py "\$1"

If you decide to use R, it might look like this:

#!/bin/bash

/usr/bin/R -f fig_1_47.R "\$1"

The program should produce a PNG called fig_1_47.png. If you use a compiled language like C/C++ or Java, provide a Makefile that compiles it first.

Zip your program and submit it to asulearn.

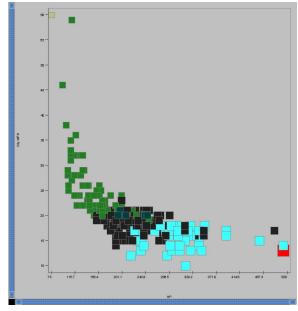


Figure 1.47