

R Lab In-Class Assignment Day 1

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Introduction

R has several built-in datasets. To see a list of these, with a title (short description), you may use the command

```
>data()
```

In this assignment we will work with the dataset `mtcars`. The dataset can be loaded with

```
>data(mtcars)
```

and can be viewed through the data viewer with

```
>fix(mtcars)
```

To get a short description of the dataset and the variables in it, type

```
>?mtcars
```

Once the dataset is loaded, you can extract each variable and assign it to a new object by means of the `$` operator, as in:

```
# Assign variable mpg of mtcars to X
>X <- mtcars$mpg
```

Tasks

1. Create a vector named `kp1` where the consumption is measured in lt/100km
2. Find the average weight of the cars, in lbs
3. The variables `vs` and `am` are actually categorical (factors). Are they coded as such? If not, convert them to such, with appropriate labels.
4. How many cars have more than 200 hp horsepower?
5. Which car is the fastest? (in terms of 1/4 mile)
6. How many Toyotas are in the database?
7. Save your script

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