R Course: Lesson 1 - R Basics

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```
load("rcourse_lesson1_environment.RData")
```

Data

Here is a look at our two dataframes. First is the one we read in, the second is our subset of just the bilinguals' data.

head(data)

```
## group type rt

## 1 monolingual <NA> 910.7722

## 2 monolingual <NA> 887.0629

## 3 monolingual <NA> 886.0760

## 4 monolingual <NA> 906.1512

## 5 monolingual <NA> 897.7662

## 6 monolingual <NA> 896.8191
```

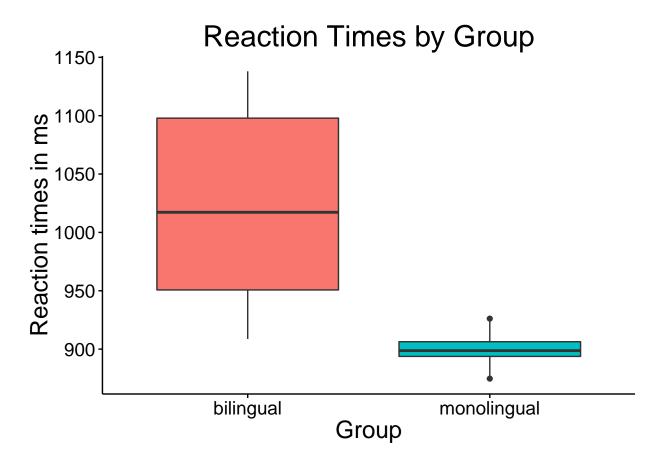
head(data_bl)

```
## group type rt
## 1 bilingual high 931.8969
## 2 bilingual high 953.4020
## 3 bilingual high 934.2860
## 4 bilingual high 961.9091
## 5 bilingual high 960.9247
## 6 bilingual high 950.0086
```

Figures

Here's a figure of the bilinguals compared to the monolinguals.

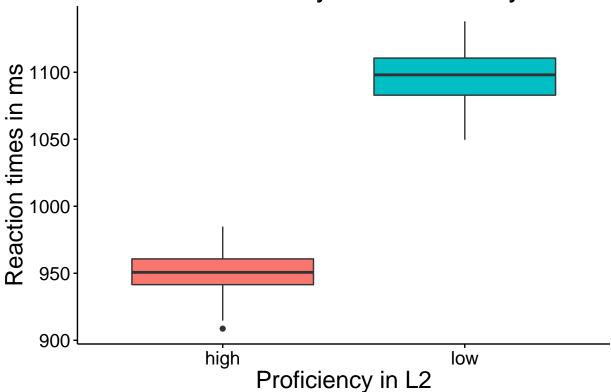
```
data.plot
```



Here's a figure of the bilinguals separted by L2 proficiency.

data_bl.plot





Descriptive Statistics

When looking at the summary statistics by group, bilinguals have much more variance than monolinguals.

```
data_sum
```

```
## group rt_mean rt_sd rt_max rt_min
## 1 bilingual 1023.7333 75.540518 1138.0258 908.6916
## 2 monolingual 899.8162 9.649395 926.1507 874.7162
```

However, when summarising within type of bilingual (level of L2 proficiency) we see where the variance comes from.

```
data_bl_sum
```

```
## type rt_mean rt_sd rt_max rt_min
## 1 high 950.315 14.49285 984.8486 908.6916
## 2 low 1097.152 19.25997 1138.0258 1049.5934
```

To show how all three groups compare we can make a final figure with the bilinguals separated out by L2 profiency and still include the monolinguals.

