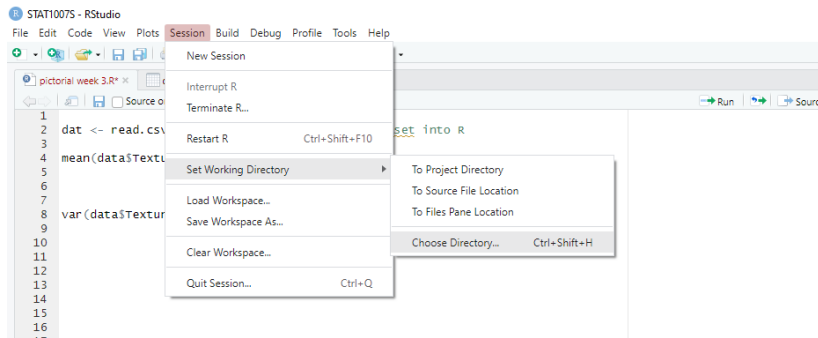


# Pictorial Week Three: Two Way ANOVA

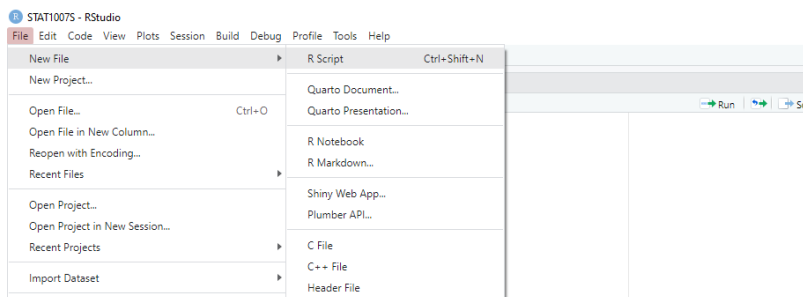
## How to: Set Working Directory

Session > Set Working Directory > Choose Directory (Pick the folder where you saved the downloaded dataset)



## How to: Open A New R Script

File > New File > R Script



## How to: Import Dataset

The color\_texture.csv dataset is used to demonstrate.

```
dat <- read.csv('color_texture.csv') #load dataset into R
```

## How to: Apply the mean() function

```
mean(dat$texture[dat$color == 'Red']) #Find the mean for color Red
```

## How to: Apply the var() function

```
var(dat$texture[dat$color == 'Red']) #Find the variance for color Red
```

## How to: Apply the aov() function

```
fit <- aov(texture ~ color + area, data = dat) # fit an Anova model
```

## How to: Apply the summary() function

`summary(fit)`

## Cheatsheet

17		
18	<b>Function</b>	<b>Description</b>
19		
20	<code>aov(y ~ x1 + x2 + x2)</code>	Conduct one-way or two-way ANOVA e.g. <code>mod1 &lt;- aov(y ~ x1 + x2)</code>
21		