

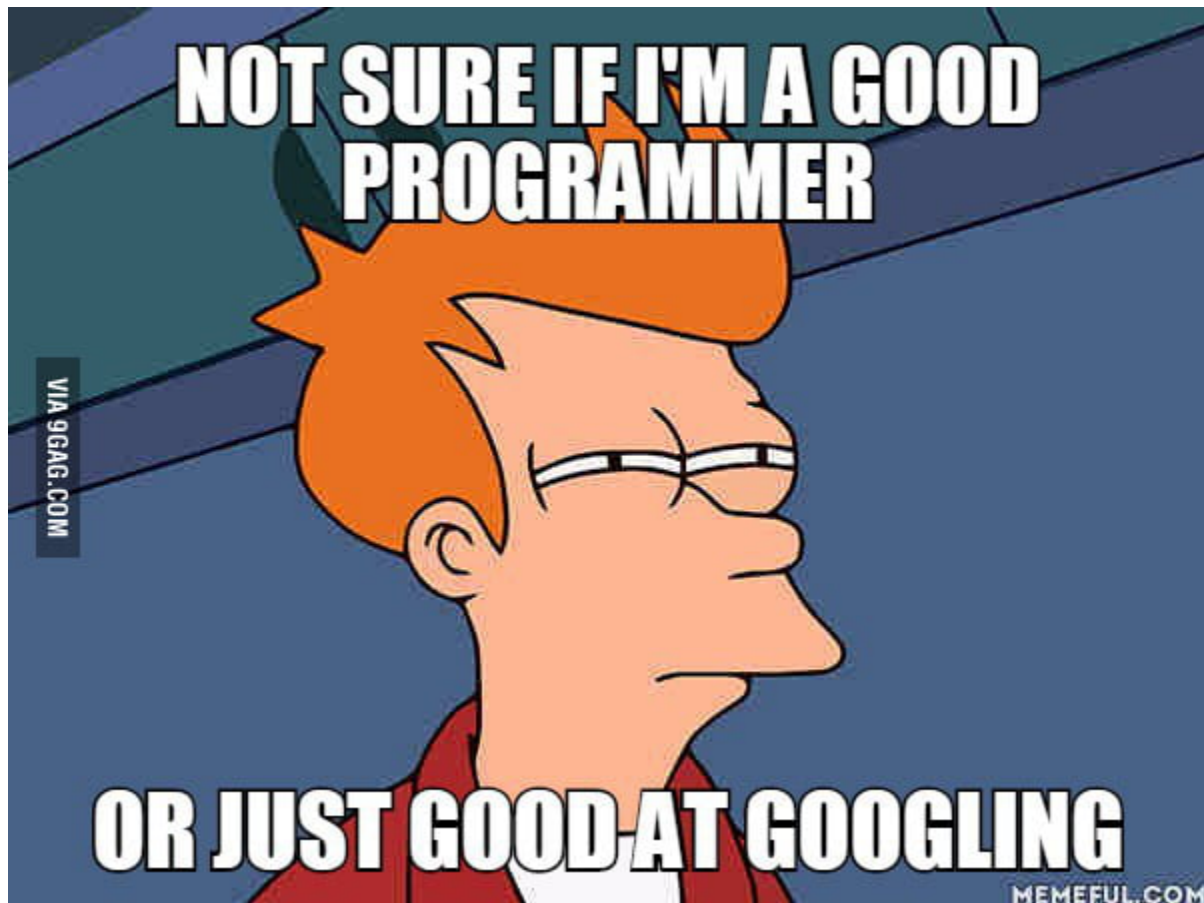
# Module 12

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First markdown document and assignment for Module 12.

First a little humor:



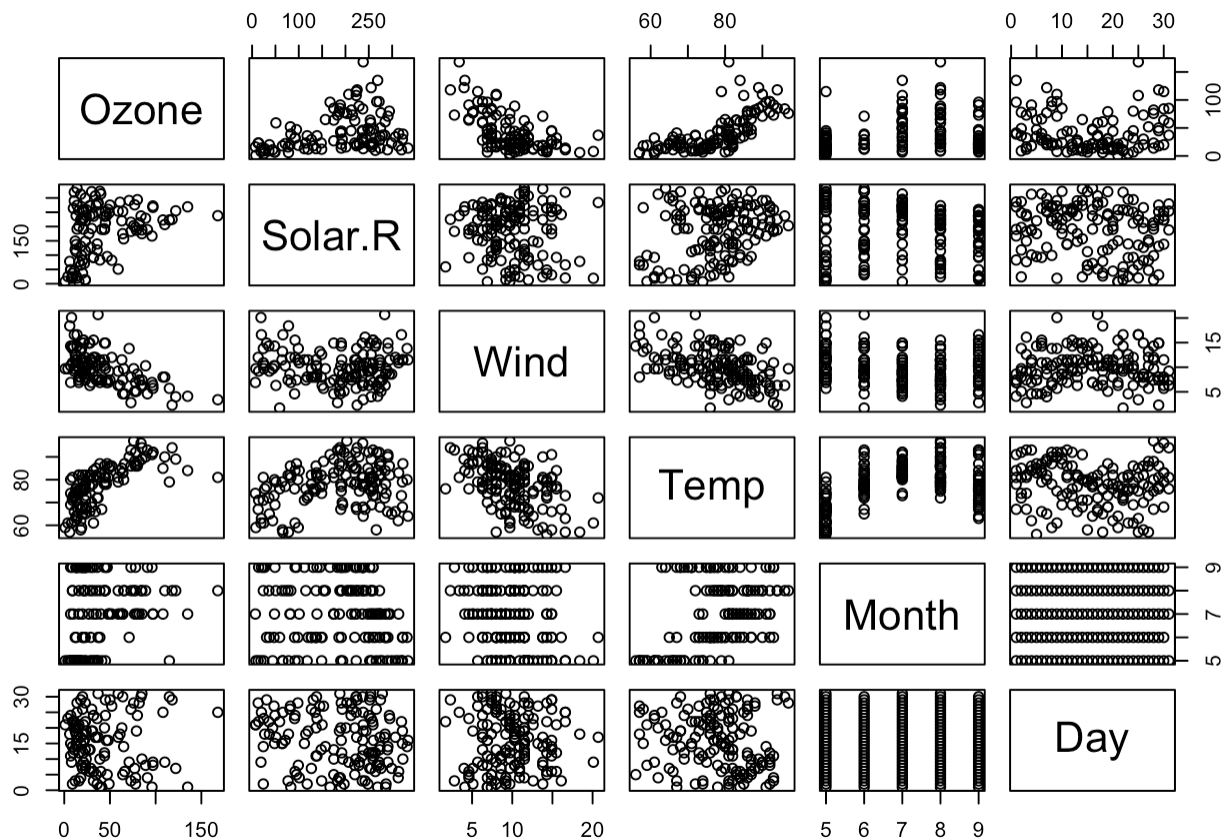
Let's load data

```
library(datasets)
data(airquality)
summary(airquality)
```

```
##      Ozone      Solar.R      Wind      Temp
## Min.   : 1.00   Min.   : 7.0   Min.   : 1.700   Min.   :56.00
## 1st Qu.: 18.00  1st Qu.:115.8   1st Qu.: 7.400   1st Qu.:72.00
## Median : 31.50  Median :205.0   Median : 9.700   Median :79.00
## Mean   : 42.13  Mean   :185.9   Mean   : 9.958   Mean   :77.88
## 3rd Qu.: 63.25  3rd Qu.:258.8   3rd Qu.:11.500   3rd Qu.:85.00
## Max.   :168.00  Max.   :334.0   Max.   :20.700   Max.   :97.00
## NA's   :37     NA's   :7
##      Month      Day
## Min.   :5.000   Min.   : 1.0
## 1st Qu.:6.000   1st Qu.: 8.0
## Median :7.000   Median :16.0
## Mean   :6.993   Mean   :15.8
## 3rd Qu.:8.000   3rd Qu.:23.0
## Max.   :9.000   Max.   :31.0
##
```

Here's a pairs plot of the data

```
pairs(airquality)
```



Regression model of ozone on some predictors

```
fit <- lm(Ozone~Solar.R + Wind + Temp, data = airquality)
summary(fit)
```

```
##
## Call:
## lm(formula = Ozone ~ Solar.R + Wind + Temp, data = airquality)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
	-40.485	-14.219	-3.551	10.097	95.619

```
##
## Coefficients:
```

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	-64.34208	23.05472	-2.791	0.00623 **
Solar.R	0.05982	0.02319	2.580	0.01124 *
Wind	-3.33359	0.65441	-5.094	1.52e-06 ***
Temp	1.65209	0.25353	6.516	2.42e-09 ***

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 21.18 on 107 degrees of freedom
## (42 observations deleted due to missingness)
## Multiple R-squared:  0.6059, Adjusted R-squared:  0.5948
## F-statistic: 54.83 on 3 and 107 DF,  p-value: < 2.2e-16
```

Create an unordered list

\*Here's item one

\*item 2

Ordered list

1. first item
2. second item

This Markdown was based off this video tutorial:

<https://youtu.be/DNS7i2m4sB0> (<https://youtu.be/DNS7i2m4sB0>)