

Practical R: **Introductions**

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Is there a difference in ozone between months

```
summary(aov(Ozone ~ Month, data=airquality))
```

```
#>           Df Sum Sq Mean Sq F value Pr(>F)
#> Month      1   3387     3387   3.171 0.0776 .
#> Residuals 114 121756     1068
#> ---
#> Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05
#> 37 observations deleted due to missingness
```

Whoops!! Only 1 df but 5 months!!

This is doing ANCOVA/Regression

I'm doing a lot of things on the fly here. We'll work through these at a saner pace in the coming weeks. Don't panic!! Breathe!!!

```
summary(aov(Ozone~factor(Month), data=airquality))
```

```
#>           Df Sum Sq Mean Sq F value  Pr(>F)
#> factor(Month)  4  29438     7359   8.536 4.83e-06
#> Residuals     111  95705     862
#> ---
#> Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05
#> 37 observations deleted due to missingness
```

factor can convert a numerical or character variable into a categorical variable