Getting Figures and Tables Presentation Ready

This markdown will go through a few examples of presentation ready tables and figures versus non presentation ready tables and figures. Often, to get tables and figures to a presentation ready form, it only requires a bit more code or even just one more function call.

Non presentation ready table

```
# Create a basic summary table
table = data.frame(format(summary(clean_data[[1]]$TMAX)),
                   format(summary(clean_data[[2]]$TMAX)))
colnames(table) = c("St. Paul", "Urbana")
table
```

```
##         St. Paul Urbana
## Min.       48.92  60.08
## 1st Qu.    73.94  78.08
## Median     78.98  82.04
## Mean       79.15  82.24
## 3rd Qu.    84.02  87.08
## Max.      100.04  93.92
```

Presentation ready table

```
# Create a table to show presentation ready example
kable(table,
      caption = paste0("Summary statistics for historical average daily maximum temperatures on ", toda
      align = "r")
```

Table 1: Summary statistics for historical average daily maximum temperatures on June 13 in degrees Fahrenheit

	St. Paul	Urbana
Min.	48.92	60.08
1st Qu.	73.94	78.08
Median	78.98	82.04
Mean	79.15	82.24
3rd Qu.	84.02	87.08
Max.	100.04	93.92

Non presentation ready linear model summary

```
## Fit a linear model to look at outputting summaries
fit = lm(TMIN ~ TMAX, data= stpaul_data)

# Basic summary call
summary(fit)
```

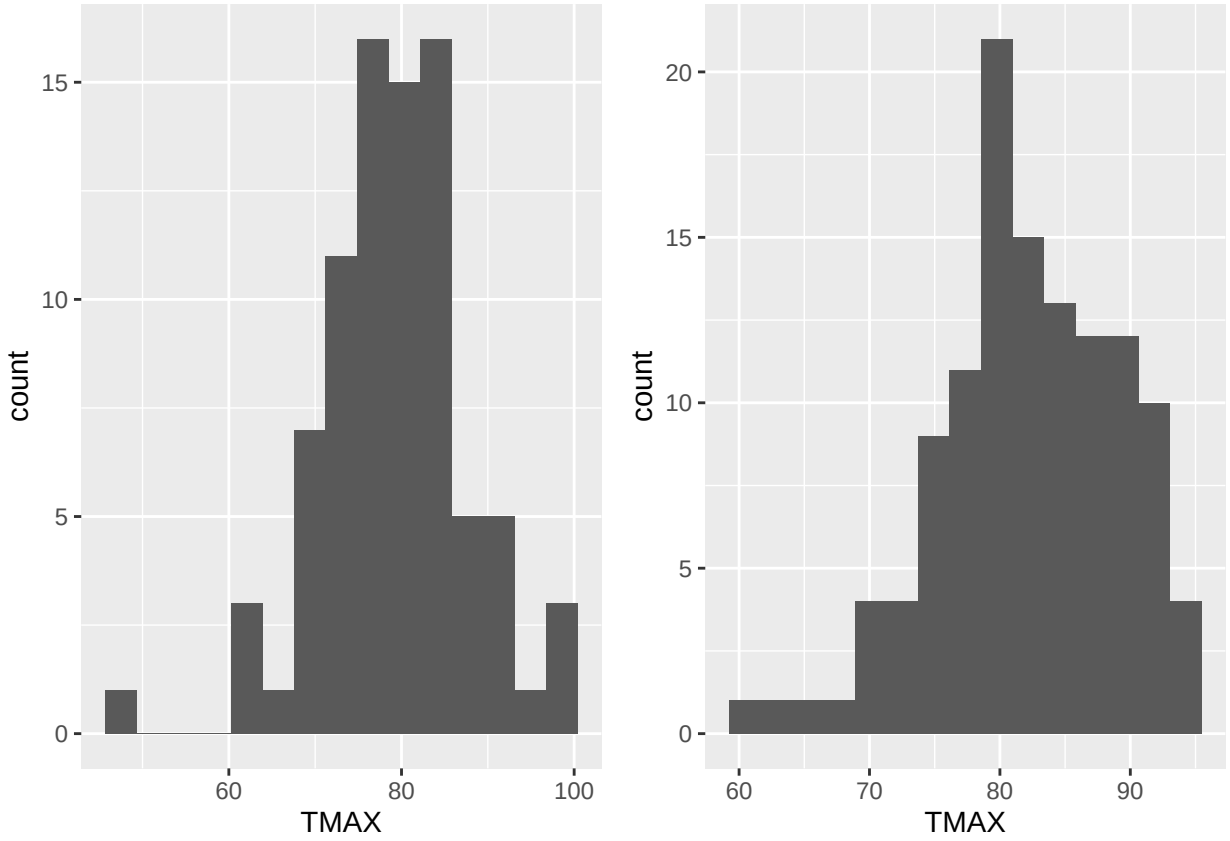
```
##
## Call:
## lm(formula = TMIN ~ TMAX, data = stpaul_data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -12.3259  -4.1946   0.3268   3.7118  10.7283
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept)  15.3868     5.4761   2.810   0.0062 **
## TMAX          0.5397     0.0688   7.844 1.42e-11 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.256 on 82 degrees of freedom
## Multiple R-squared:  0.4287, Adjusted R-squared:  0.4217
## F-statistic: 61.53 on 1 and 82 DF,  p-value: 1.423e-11
```

Presentation ready linear model summary

```
# Linear model summary using combination of kable and tidy for well formated table
kable(tidy(fit))
```

term	estimate	std.error	statistic	p.value
(Intercept)	15.3867594	5.4760747	2.809816	0.0061964
TMAX	0.5396937	0.0688044	7.843882	0.0000000

Non presentation ready histogram



Presentation ready histogram