**Diamond Price Analysis**

**Basic scatter plot**

Y axis = Price

X axis = Carat

Hue = Clarity

ggplot(data=mydata, aes(x=carat, y=price, color=clarity)) +

geom\_point()

Chart, scatter chart

Description automatically generated

**Basic Scatter Plot + alpha (makes data points transparent)**

ggplot(data=mydata, aes(x=carat, y=price, color=clarity)) +

geom\_point(alpha=0.1)

Chart, scatter chart

Description automatically generated

**Basic Scatter Plot + alpha + data filter (remove outliers with carat <2.5)**

ggplot(data=mydata[mydata$carat<2.5,], aes(x=carat, y=price, color=clarity)) +

geom\_point(alpha=0.1)

Chart, scatter chart

Description automatically generated

**Basic Scatter plot + alpha + data filter + best fit lines (geom\_smooth)**

ggplot(data=mydata[mydata$carat<2.5,], aes(x=carat, y=price, color=clarity)) +

geom\_point(alpha=0.1) +

geom\_smooth()

Chart, histogram

Description automatically generated