

bla bla

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1 getting started

This is the first section of our document. We will only talk about `data.frames`.
A new paragraph comes after a blank line

2 more information

Here is another section. In Section 1 we learned about `data.frames`.

2.1 First subsection

Content for a subsection

2.2 Second subsection

More content that is nested in Section 2

3 Diamonds

```
# load ggplot
require(ggplot2)
```

```
## Loading required package: ggplot2

data("diamonds")
head(diamonds)

##   carat      cut color clarity depth table price     x     y     z
## 1  0.23    Ideal     E    SI2  61.5     55   326  3.95  3.98  2.43
## 2  0.21  Premium     E    SI1  59.8     61   326  3.89  3.84  2.31
## 3  0.23     Good     E    VS1  56.9     65   327  4.05  4.07  2.31
## 4  0.29  Premium     I    VS2  62.4     58   334  4.20  4.23  2.63
## 5  0.31     Good     J    SI2  63.3     58   335  4.34  4.35  2.75
## 6  0.24 Very Good     J   VVS2  62.8     57   336  3.94  3.96  2.48

mod1 <- lm(price~carat + cut, data=diamonds)
summary(mod1)

##
## Call:
## lm(formula = price ~ carat + cut, data = diamonds)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -17540.7   -791.6    -37.6    522.1   12721.4
##
## Coefficients:
##              Estimate Std. Error  t value Pr(>|t|)
## (Intercept) -2701.38      15.43  -175.061  < 2e-16 ***
## carat        7871.08      13.98   563.040  < 2e-16 ***
## cut.L         1239.80      26.10    47.502  < 2e-16 ***
## cut.Q        -528.60      23.13   -22.851  < 2e-16 ***
## cut.C         367.91      20.21    18.201  < 2e-16 ***
## cut^4          74.59      16.24     4.593  4.37e-06 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1511 on 53934 degrees of freedom
## Multiple R-squared:  0.8565, Adjusted R-squared:  0.8565
## F-statistic: 6.437e+04 on 5 and 53934 DF,  p-value: < 2.2e-16
```

The diamonds are plotted in Figure ??

```
ggplot(diamonds, aes(x=carat, y=price, color=color)) + geom_point()
```

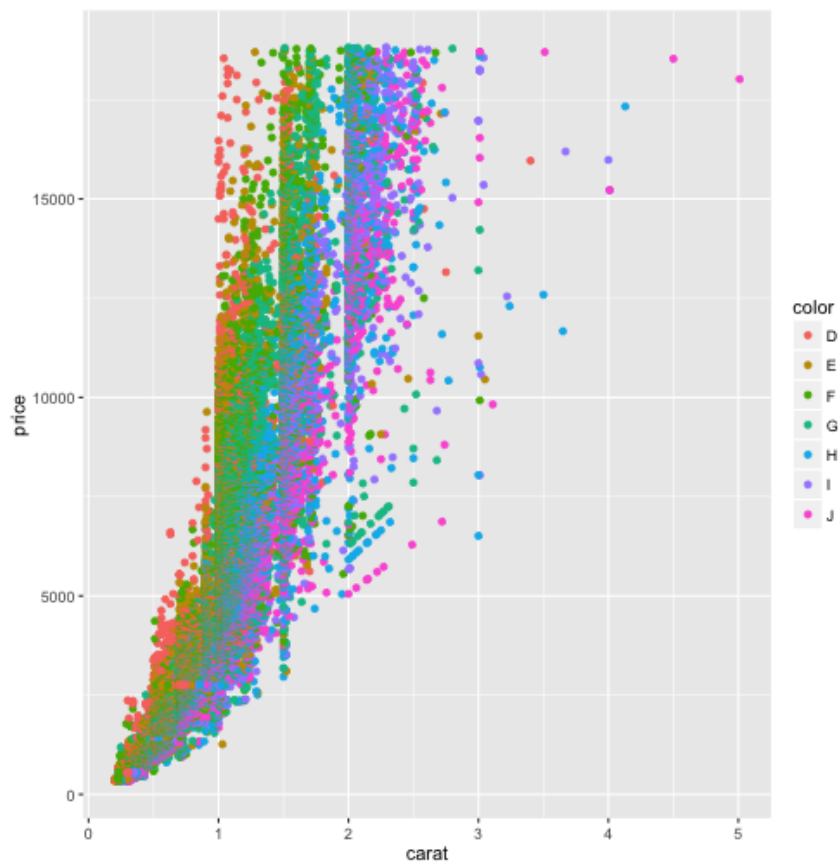


Figure 1: Scatterplot of diamonds