A Simple Article

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Contents

1 Getting Started

```
# load ggplot
library(ggplot2)

# load and view the diamonds data
data(diamonds)
head(diamonds)
```

```
## # A tibble: 6 x 10
##   carat       cut color clarity depth table price     x     y     z
##   <dbl>     <ord> <ord>   <ord> <dbl> <dbl> <int> <dbl> <dbl> <dbl>
## 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
```

```
# fit the model
mod1 <- lm(price ~ carat + cut, data=diamonds)

# view a summary
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
```

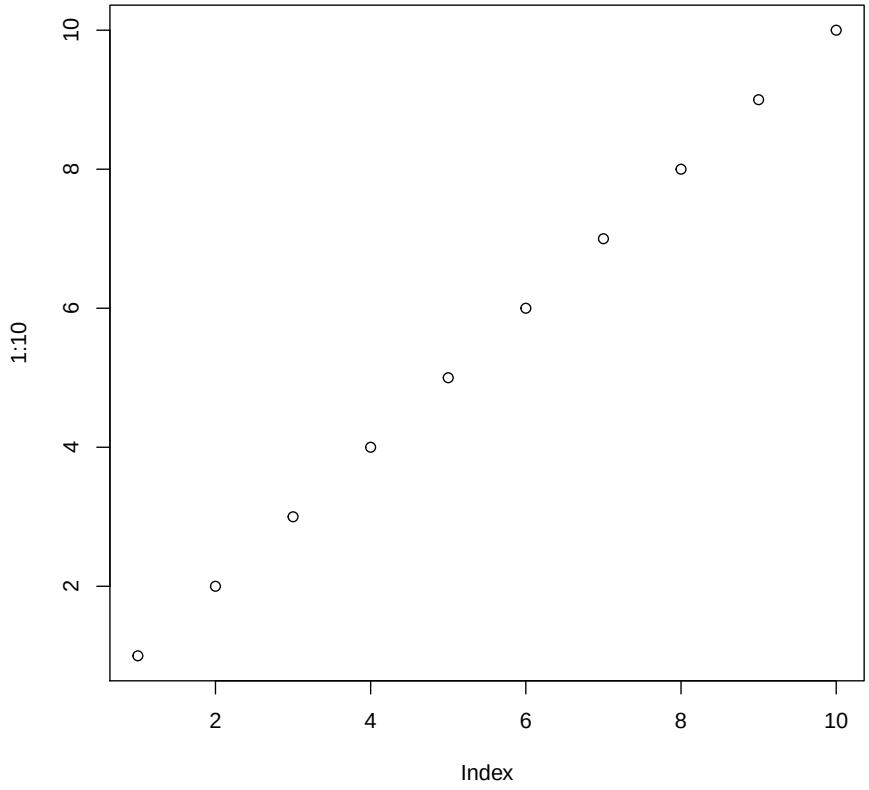
2 More Information

2.1 First Subsection

```
1 + 1
```

```
## [1] 2
```

```
plot(1:10)
```




```
2 + 2
```

```
## [1] 4
```

2.2 Second Subsection

```
1 + 1
```

```
## [1] 2
```

```
plot(1:10)
```

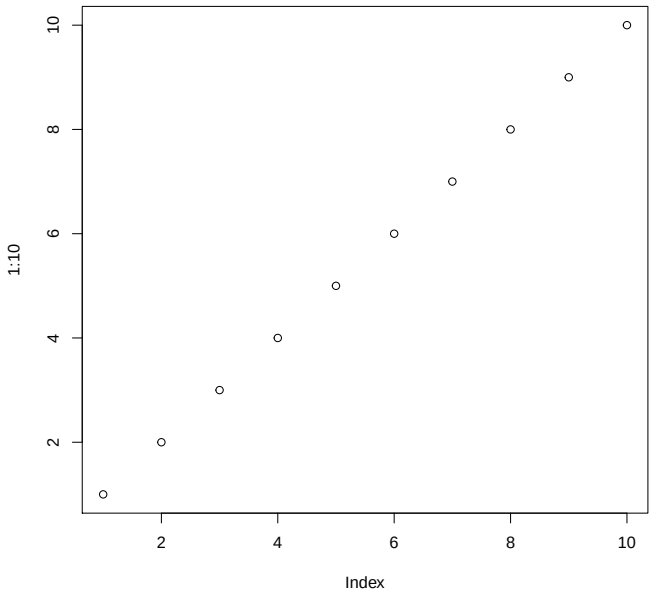


Figure 1: Simple plot of the numbers 1 through 10.

```r
2 + 2
```

```
## [1] 4
```