

H/W

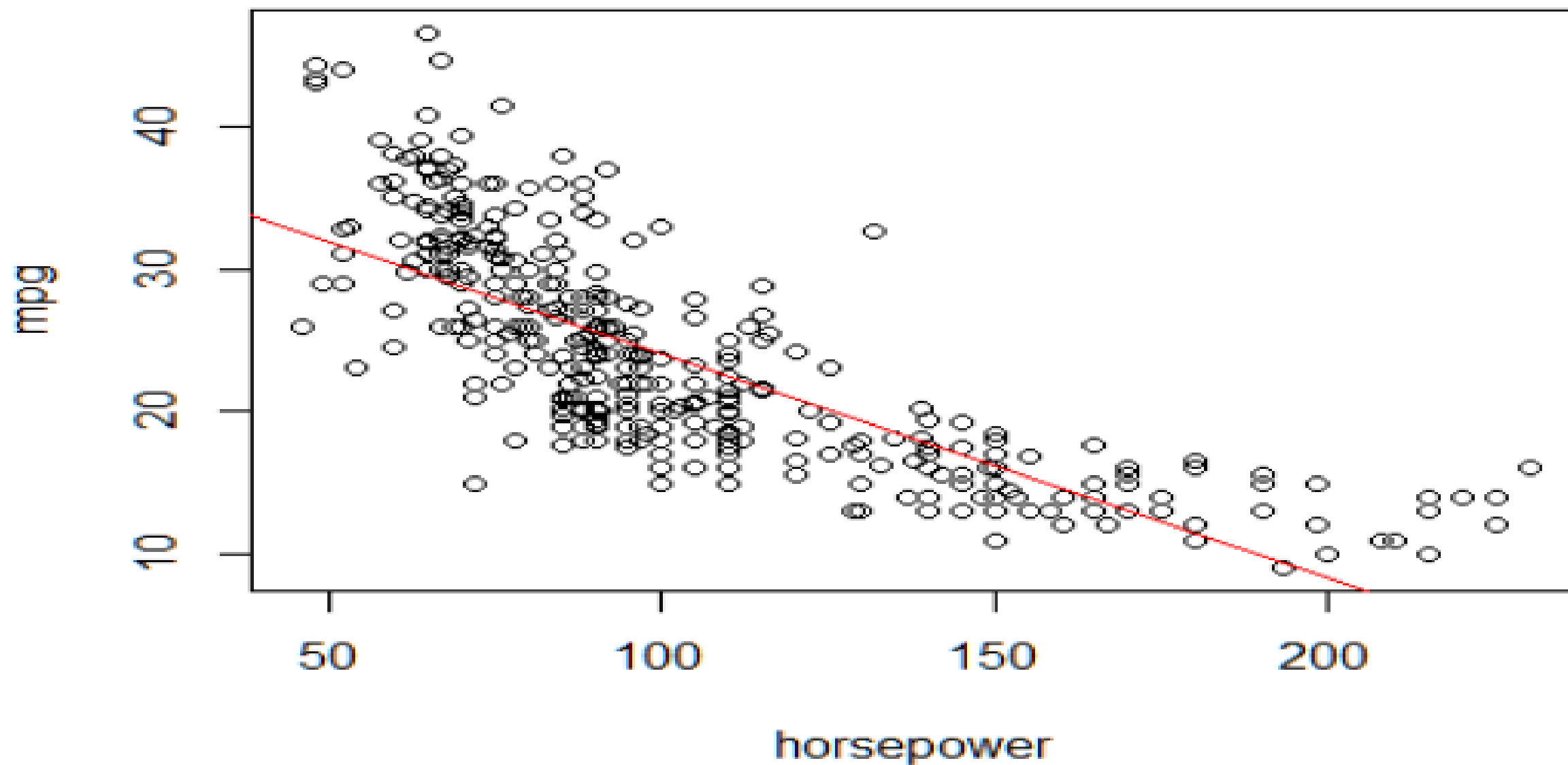
```
Call:
lm(formula = mpg ~ horsepower, data = Auto)
```

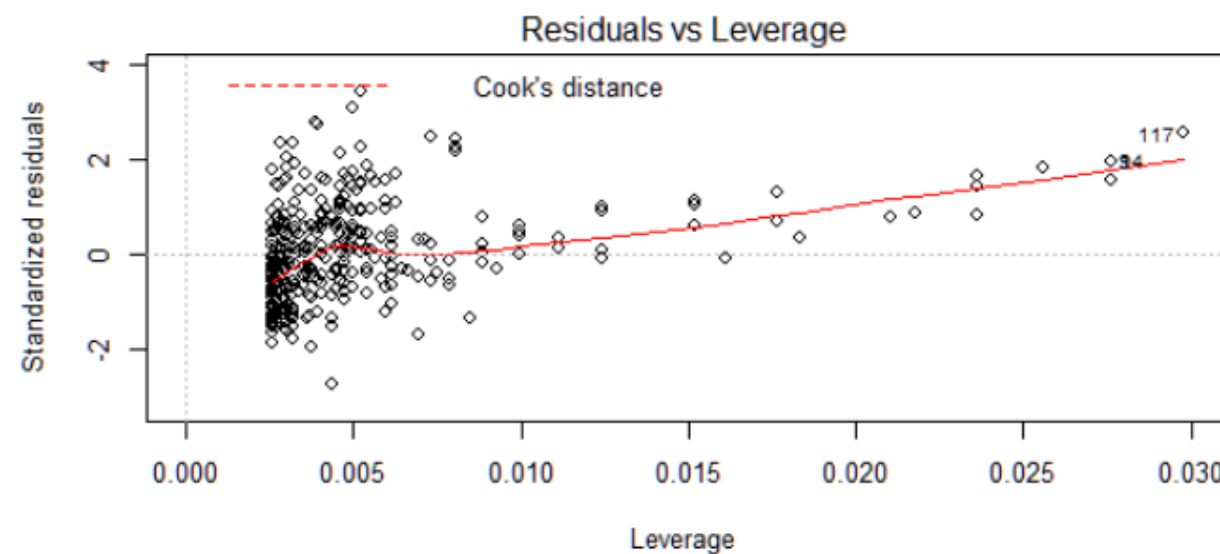
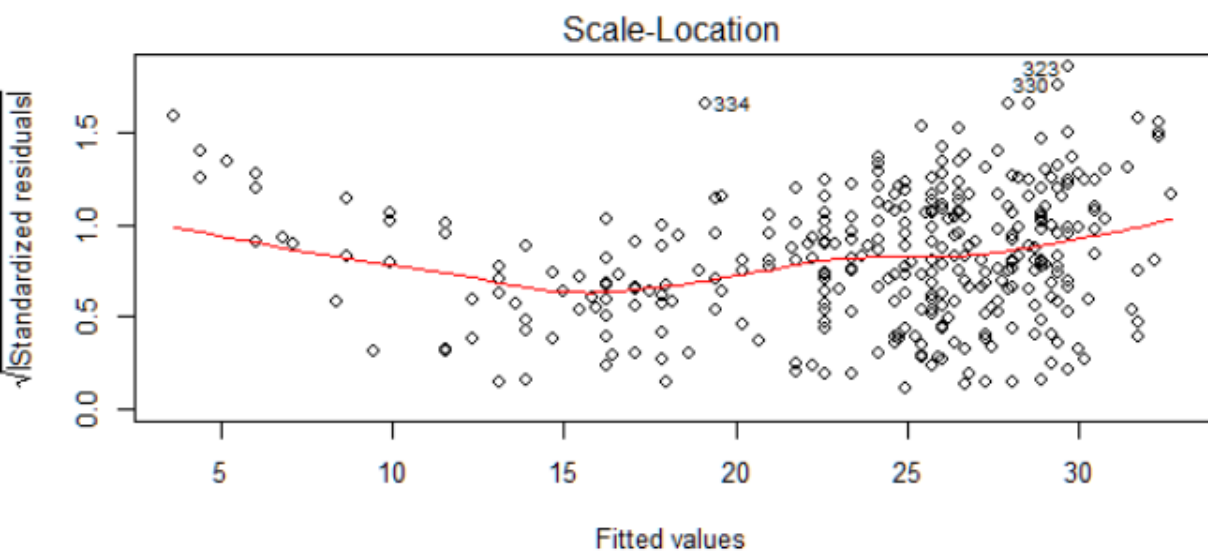
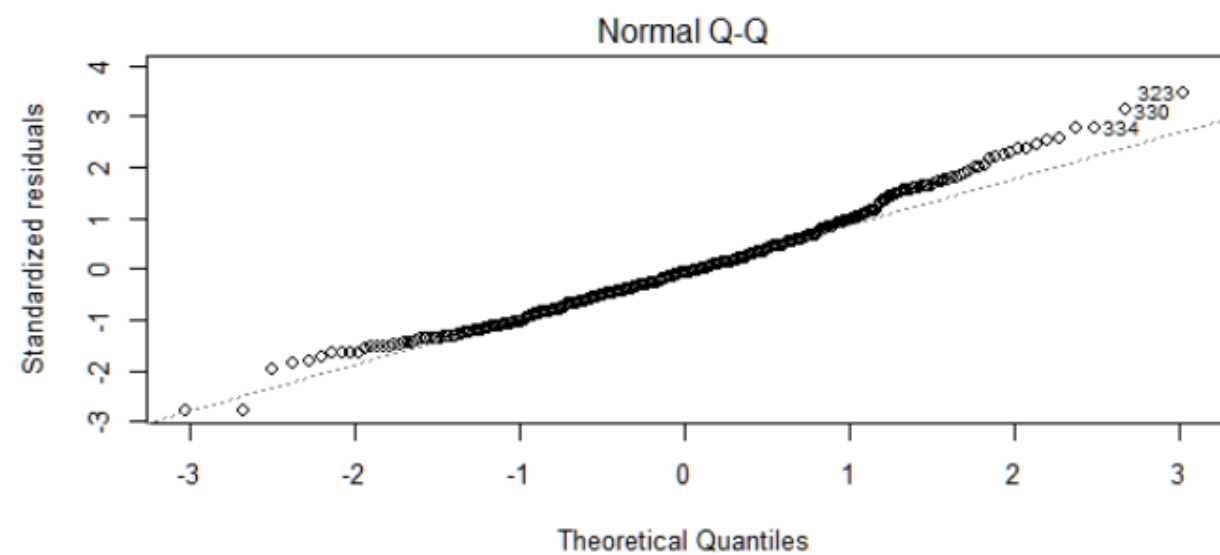
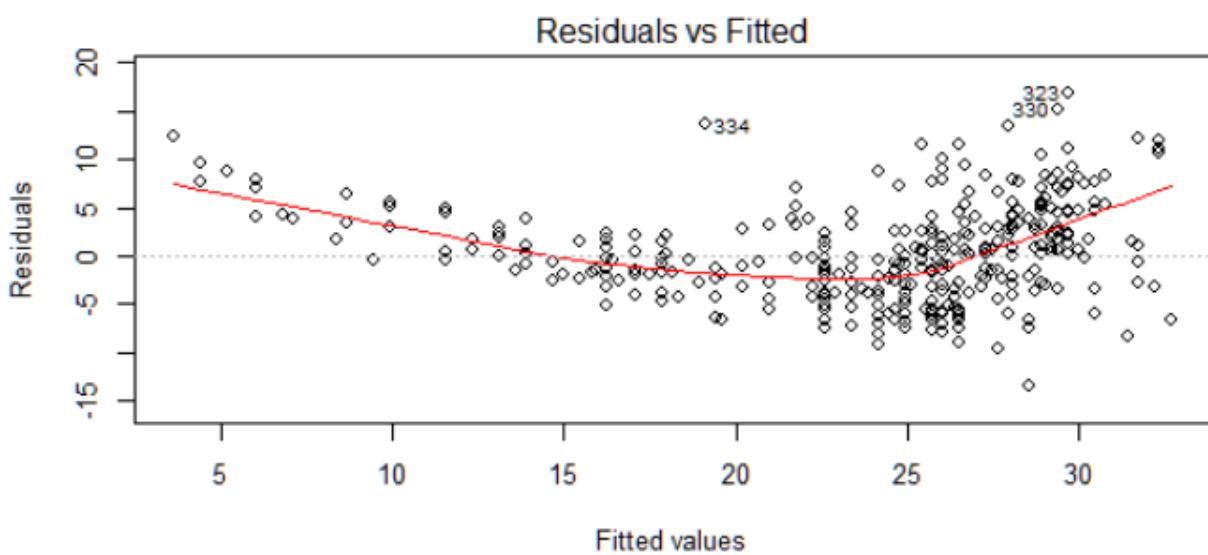
| | Estimate | Std. Error | t value | Pr(> t) |
|-------------|-----------|------------|---------|----------|
| (Intercept) | 39.935861 | 0.717499 | 55.66 | <2e-16 |
| horsepower | -0.157845 | 0.006446 | -24.49 | <2e-16 |

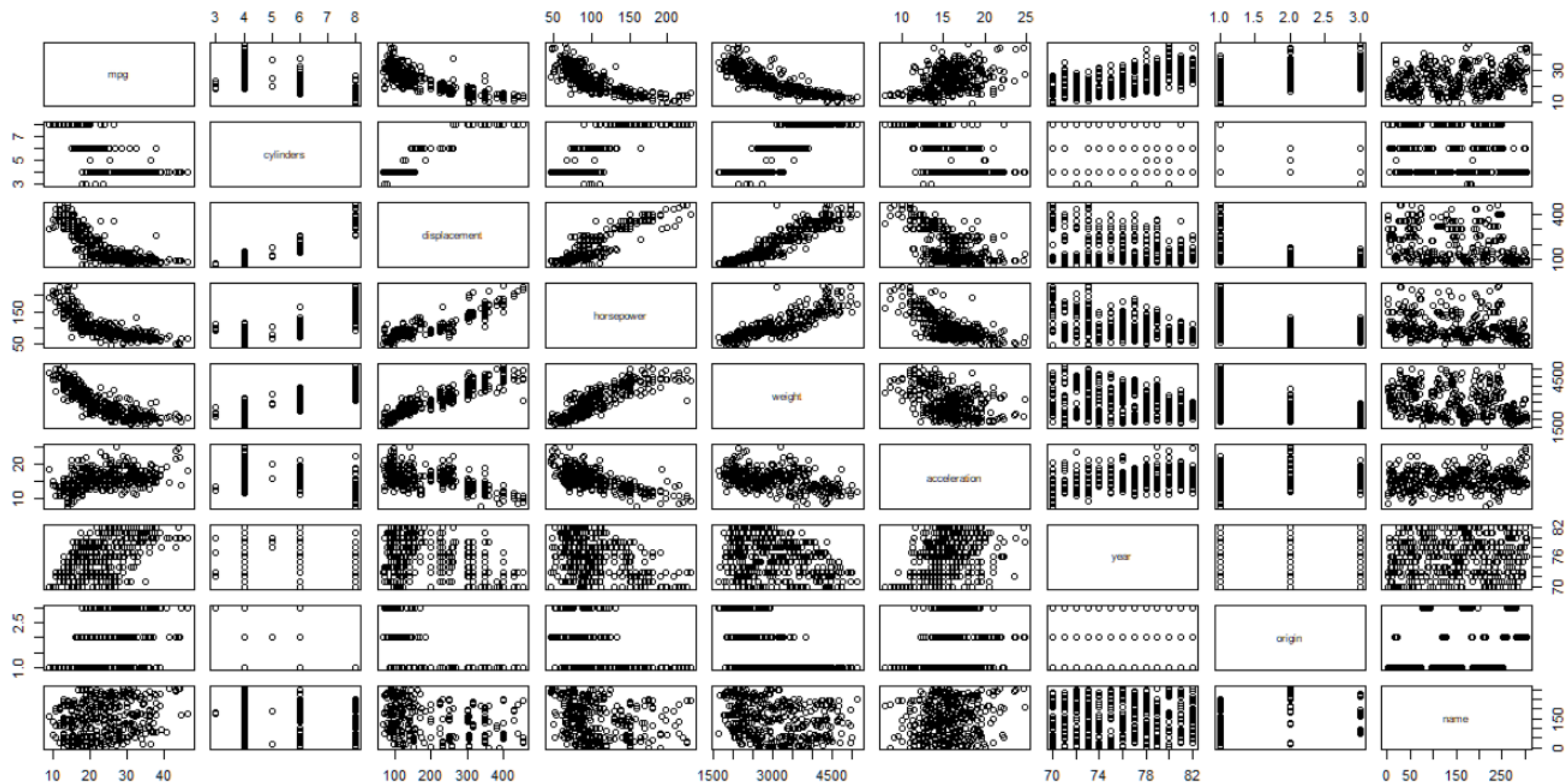
Residual standard error: 4.906 on 390 degrees of freedom
Multiple R-squared: 0.6059, Adjusted R-squared: 0.6049
F-statistic: 599.7 on 1 and 390 DF, p-value: $< 2.2e-16$


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Mpg vs Horsepower








 Run  Source 

(Top Level)

Script



RStudio

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Go to file/function Addins

Lab1.R* x Untitled1* x Untitled3* x Code 8 a.R* x

Source on Save Run Source

```
1 library(ISLR)
2 fit <- lm(mpg ~ . -name , data =Auto)
3
4 summary(fit)
5
```

4:13 (Top Level) R Script

Environment History Connections

Project: (None)

Console Terminal x Jobs x

```
> library(ISLR)
> fit <- lm(mpg ~ . -name , data =Auto)
>
> summary(fit)
```

Call:
lm(formula = mpg ~ . - name, data = Auto)

Residuals:

| | Min | 1Q | Median | 3Q | Max |
|--|---------|---------|---------|--------|---------|
| | -9.5903 | -2.1565 | -0.1169 | 1.8690 | 13.0604 |

Coefficients:

| | Estimate | Std. Error | t value | Pr(> t) | |
|--------------|------------|------------|---------|----------|-----|
| (Intercept) | -17.218435 | 4.644294 | -3.707 | 0.00024 | *** |
| cylinders | -0.493376 | 0.323282 | -1.526 | 0.12780 | |
| displacement | 0.019896 | 0.007515 | 2.647 | 0.00844 | ** |
| horsepower | -0.016951 | 0.013787 | -1.230 | 0.21963 | |
| weight | -0.006474 | 0.000652 | -9.929 | < 2e-16 | *** |
| acceleration | 0.080576 | 0.098845 | 0.815 | 0.41548 | |
| year | 0.750773 | 0.050973 | 14.729 | < 2e-16 | *** |
| origin | 1.426141 | 0.278136 | 5.127 | 4.67e-07 | *** |

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 3.328 on 384 degrees of freedom
Multiple R-squared: 0.8215, Adjusted R-squared: 0.8182
F-statistic: 252.4 on 7 and 384 DF, p-value: < 2.2e-16

```
> |
```

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