Statistic Exercise R Mark Down

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# Exercise

### Data import

Auto <- ISLR::Auto

## mpg cylinders displacement horsepower weight acceleration year origin  
## 1 18 8 307 130 3504 12.0 70 1  
## 2 15 8 350 165 3693 11.5 70 1  
## 3 18 8 318 150 3436 11.0 70 1  
## 4 16 8 304 150 3433 12.0 70 1  
## 5 17 8 302 140 3449 10.5 70 1  
## 6 15 8 429 198 4341 10.0 70 1  
## name  
## 1 chevrolet chevelle malibu  
## 2 buick skylark 320  
## 3 plymouth satellite  
## 4 amc rebel sst  
## 5 ford torino  
## 6 ford galaxie 500

### Fit the model

lm.fit <- lm(mpg~horsepower, data=Auto)

### Table

Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Estimate | Std. Error | t value | Pr(>|t|) |
| (Intercept) | 39.9358610 | 0.7174987 | 55.65984 | 0 |
| horsepower | -0.1578447 | 0.0064455 | -24.48914 | 0 |
|  |  |  |  |  |

### Plot

