

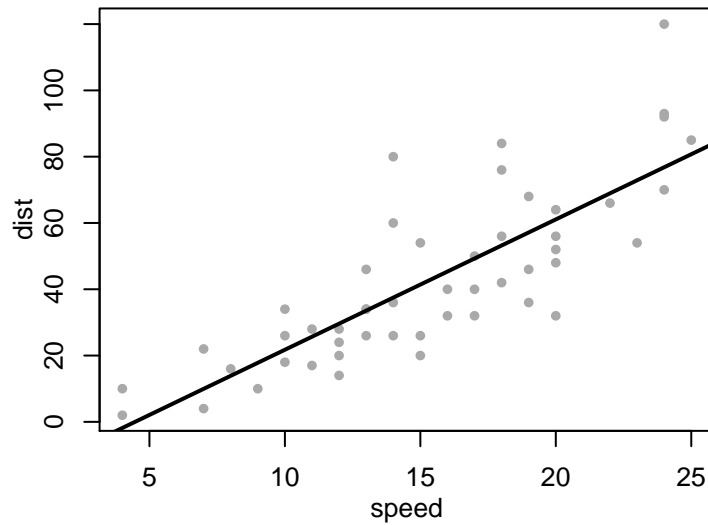
# A Minimal Example

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We examine the relationship between speed and stopping distance using a linear regression model:  $Y = \beta_0 + \beta_1 x + \epsilon$ .

```
par(mar = c(4, 4, 1, 1), mgp = c(2, 1, 0), cex = 0.8)
plot(cars, pch = 20, col = 'darkgray')
fit <- lm(dist ~ speed, data = cars)
abline(fit, lwd = 2)
```



The slope of a simple linear regression is 3.9324088.