Simple Regression Model

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Agenda

- Last time
 - ▶ Linear model
 - Using linear model to make a prediction
 - Interpretation of linear model
- Today
 - ► Simple regression model
 - Getting the 'best' regression model

Regression model

► Simple Linear Model

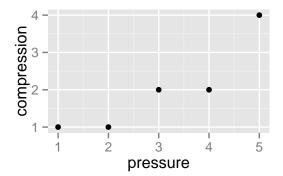
$$y = \beta_0 + \beta_1 x$$

Simple Linear Regression Model

$$y = \beta_0 + \beta_1 x + \epsilon$$

Correlation is usually not perfect.

##		pressure	compression
##	1	1	1
##	2	2	1
##	3	3	2
##	4	4	2
##	5	5	4



It's hard to draw a line

