

## **Description vs Inference**

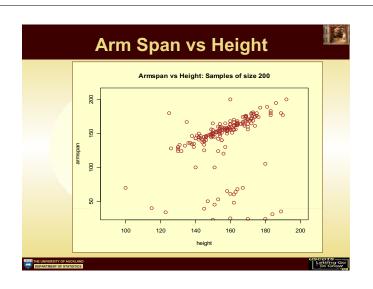
- Description is what I see in the data in hand
  Theme: "Right here, right now" Fat Boy Slim
- Inference is what I think is likely to be happening - back in the populations where these data came from
  - Theme: "Back in the USSR" Beatles 🛛 🐗

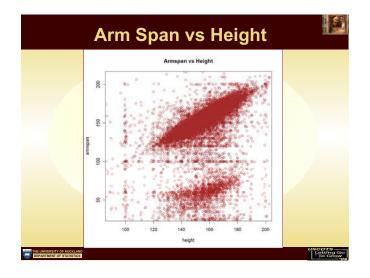
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- We have a natural propensity to move early to inference
- Many unclear in their thinking & communication when they are describing and when inferring

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## How do we make inferences?

- Often from coming to believe that something I see in these data is a reflection of something occurring back in the populations
- Always know that what we see is, at best, an *imperfect reflection* of the way it really is back in the populations

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