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Breakdowns in Common Statistical and Graphical Techniques for Big Data

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and Graphical Techniques for Big
Data

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John Gabrosek,
Department of Statistics

Hypothesis Testing

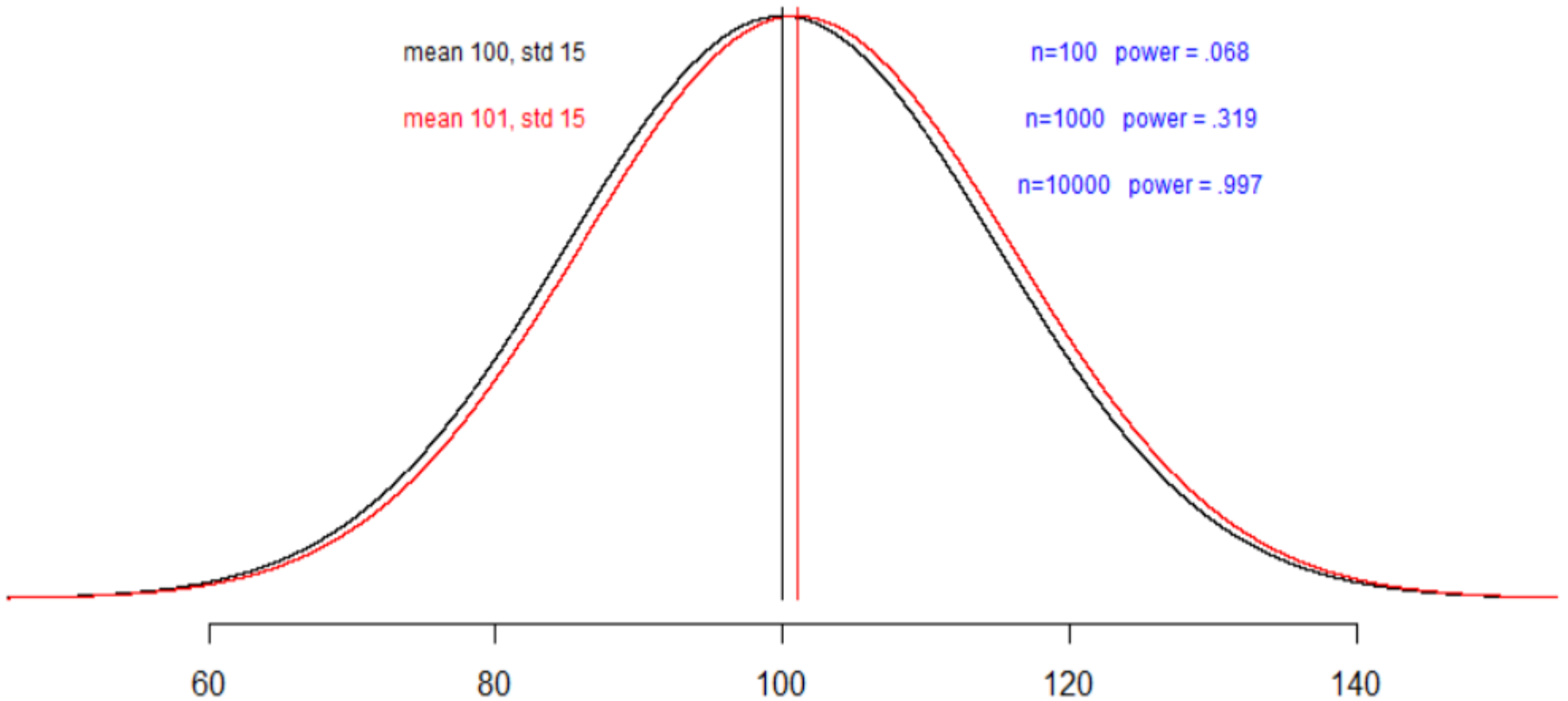
mean 100, std 15

mean 101, std 15

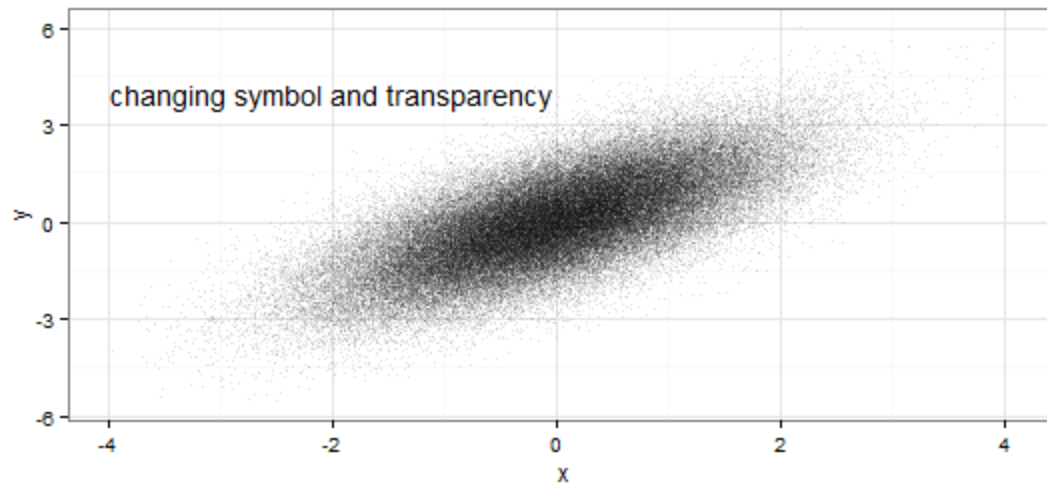
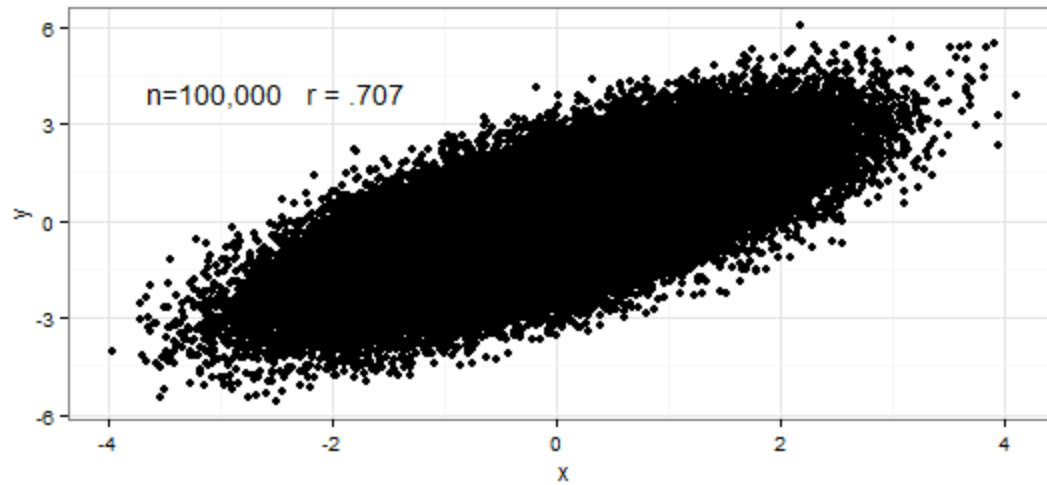
n=100 power = .068

n=1000 power = .319

n=10000 power = .997



Graphics



Other Issues

- Context of the problem
- Confounding and lurking variables
- Sampling and representativeness
- Integration of multiple sources
- Dependent data
- Multivariate data