Statistics Assignment #1: Date Collection/ Synthesis

Statistics Assignment Harvard Case Solution & Analysis

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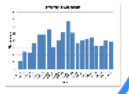
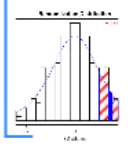


1. Randomization

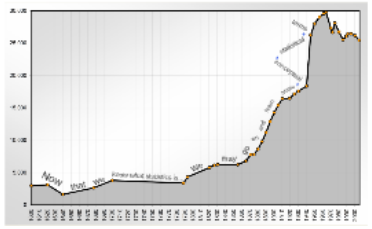


Randomization refers to the practice of using chance methods (random number tables, flipping a coin, etc.) to assign subjects to treatments. In this way, the potential effects of lurking variables are distributed at chance levels (hopefully roughly evenly) across treatment conditions.

#1. Data Collection/Synthesis

"Creating a webpage presentation that explains conceptual statistical issues like randomization, margin of error, overfitting, cross-validation, concepts in data visualization, sampling. The webpage should not use any math at all and should explain the concepts so a general audience could understand."

What is Statistics?



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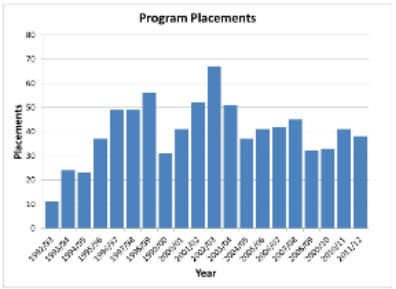
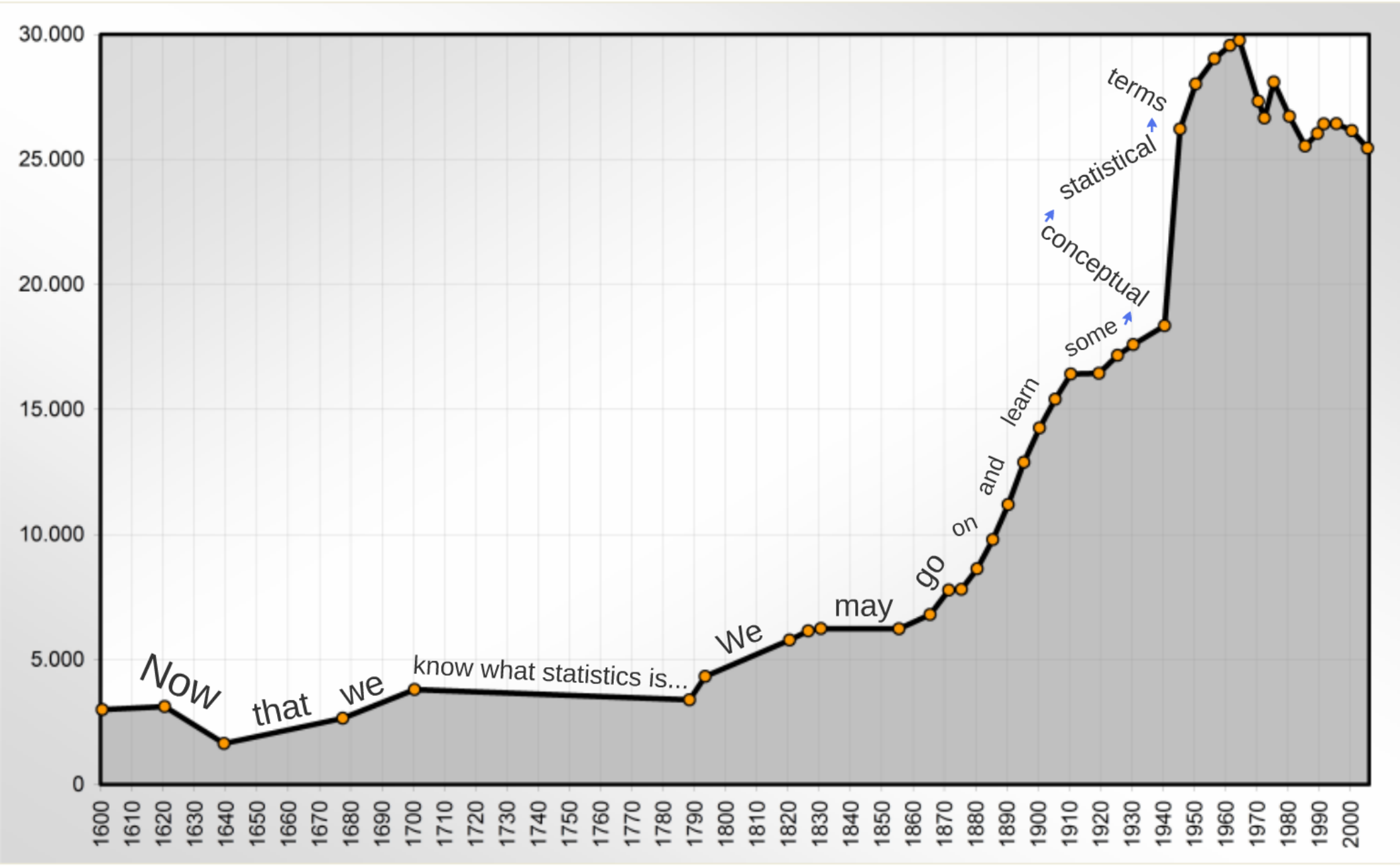


#1. Data Collection/Synthesis

"Creating a webpage.presentation that explains conceptual statistical issues like randomization, margin of error, overfitting, cross-validation, concepts in data visualization, sampling. The webpage should not use any math at all and should explain the concepts so a general audience could understand."

What is Statistics?

Statistics is the study of the collection, organization, analysis, interpretation and presentation of data. It deals with all aspects of data including the planning of data collection in terms of the design of surveys and experiments.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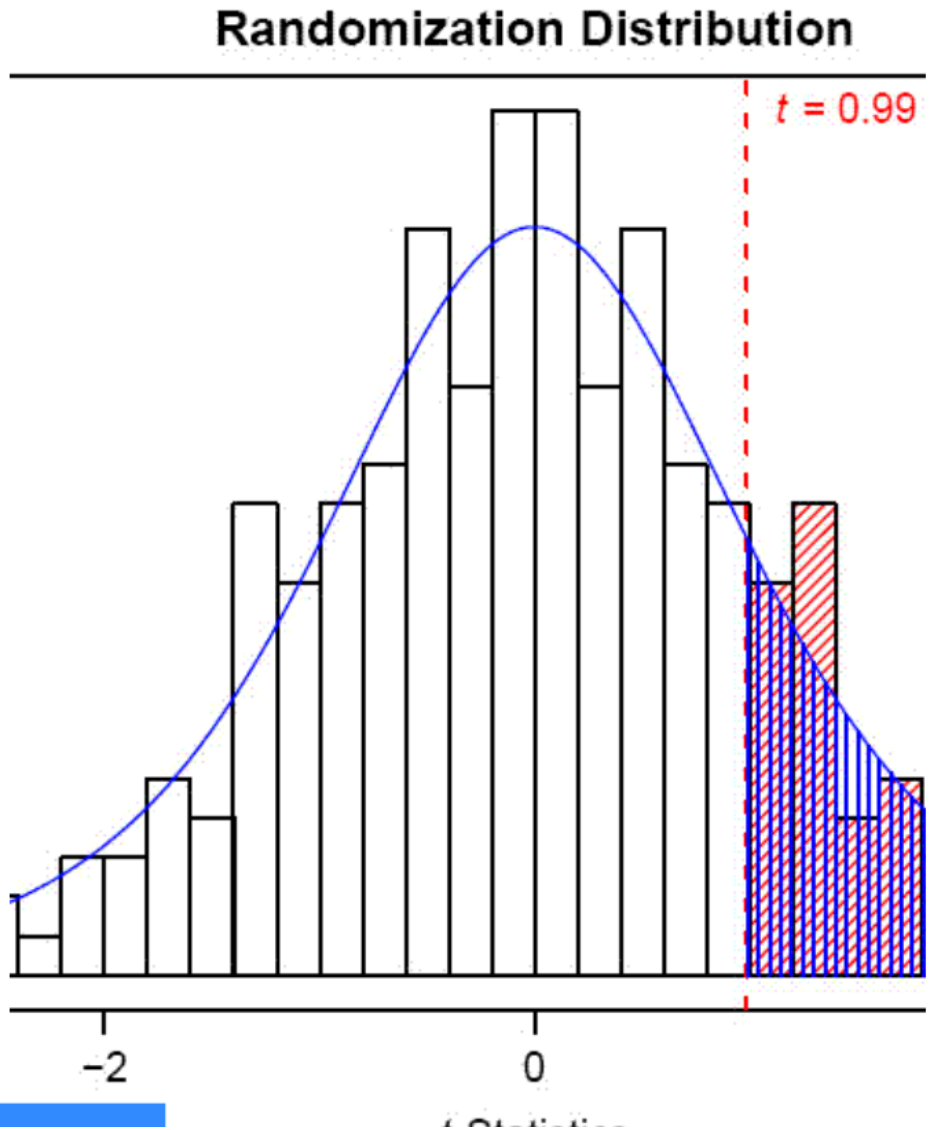
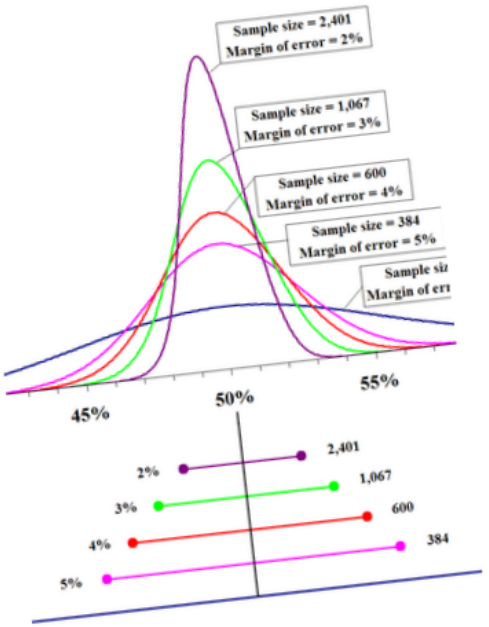
1. Randomization



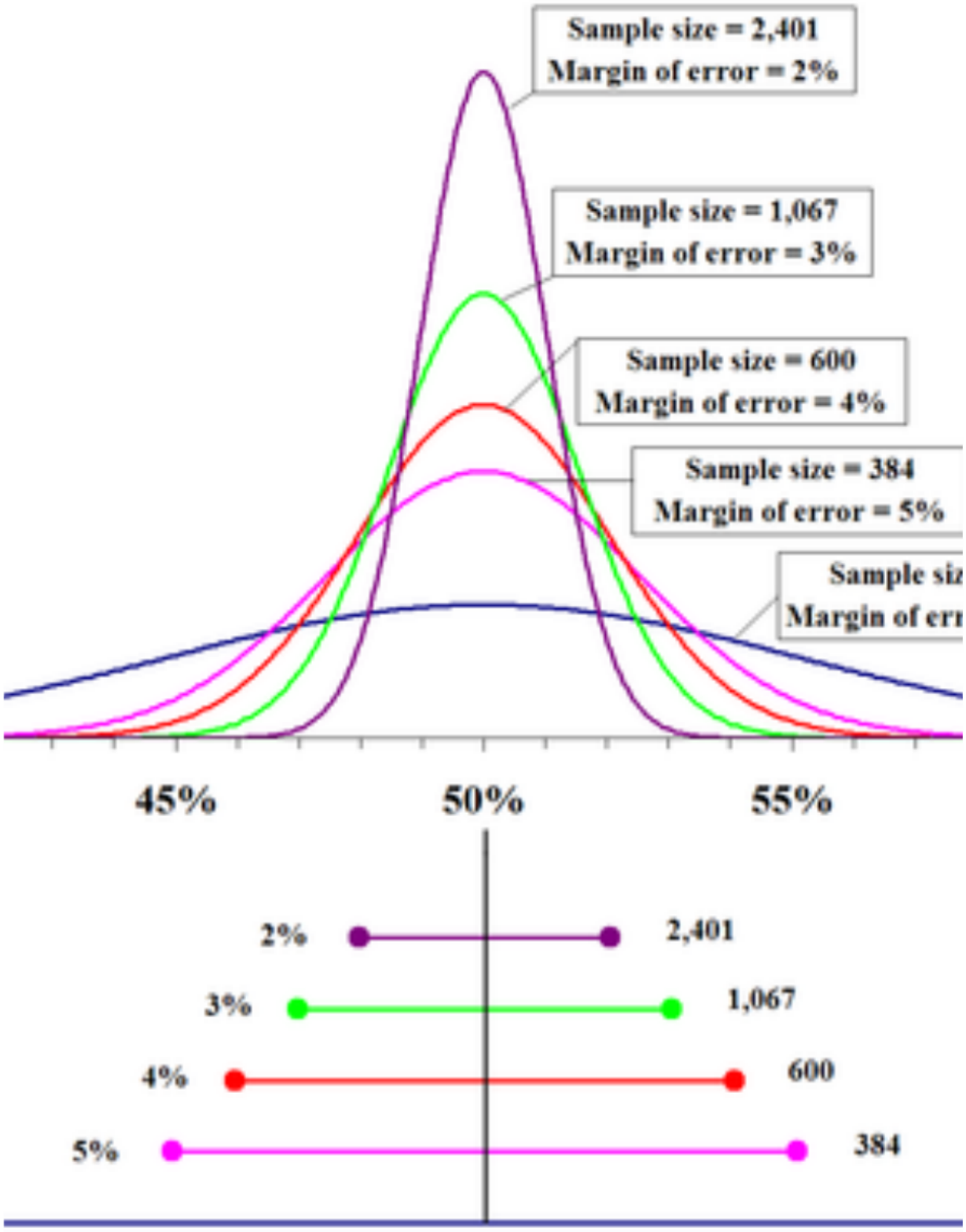
Randomization refers to the practice of using chance methods (random number tables, flipping a coin, etc.) to assign subjects to treatments. In this way, the potential effects of lurking variables are distributed at chance levels (hopefully roughly evenly) across treatment conditions.

2. Margin of Error



Margin of Error is an amount (usually small) that is allowed for in case of miscalculation or change of circumstances.

The graph above shows that the bigger the sample group, the smaller the margin of error.



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