

Confidence Interval

Example:

US Presidential Election, predicting the proportion of votes for a particular candidate

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Average starting salary of all business students who graduated last year in New York city

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confidence interval for the 'population proportion'

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confidence interval for the 'population mean'

Confidence Interval, *another example*

Hurricane Season in Texas

- June through November is the 'Hurricane Season'
- Hurricanes come through the Gulf of Mexico
- Tracking and prediction is of immense importance

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Hurricane Ike

- Struck Galveston, Texas in 2008
- Caused a lot of damage in Houston and Galveston
- Meteorologists were trying to predict where the hurricane will strike
- An 'interval prediction' done rather than a 'point prediction'

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