















The Usefulness of Statistics

Library at the British House of Commons

- Statistical Literacy guide
- Most important questions to ask:
 - Compared to what?
- Since when?
- Says who?
- Many more questions...

Communicating Useful Stats

- Verbal Labels versus Numbers
- "The odds of something are: ..."
- High
- Quite certain
- Small
- Possible
- Somewhat likely
- Very low ...

The Problems with Verbal Labels

What is a "high" risk? 90%? 1%?

- 1% may be "high" for test results you don't want to see
- 10% may be a "small possibility" for test results you're hoping to see
- Verbal labels are as confusing as numbers to most patrons

Numerical Representation 90% vs 0.9 vs "9 in 10"

- Always compare numbers with the same denominator ("9/10" ← "10" is denominator)
- Avoid probabilities, percentages
- Use frequency representation

The probability of successfully navigating an asteroid field is approximately 0.0002688!





