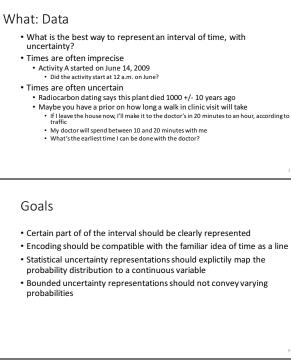


All together

How: Encode



Error Bars

Users will understand these to

represent statistical uncertainty

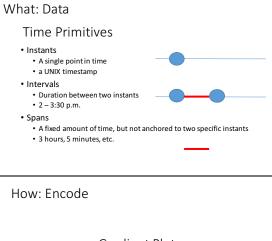
Users will understand these to

represent bounded uncertainty

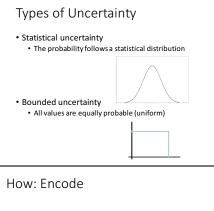
How: Encode

Bounded uncertainty

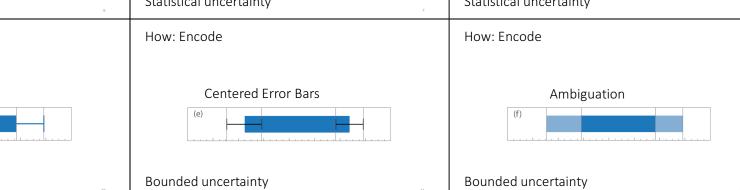
Hypotheses

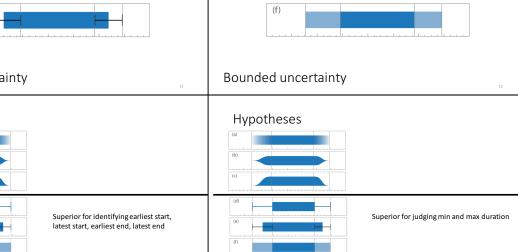


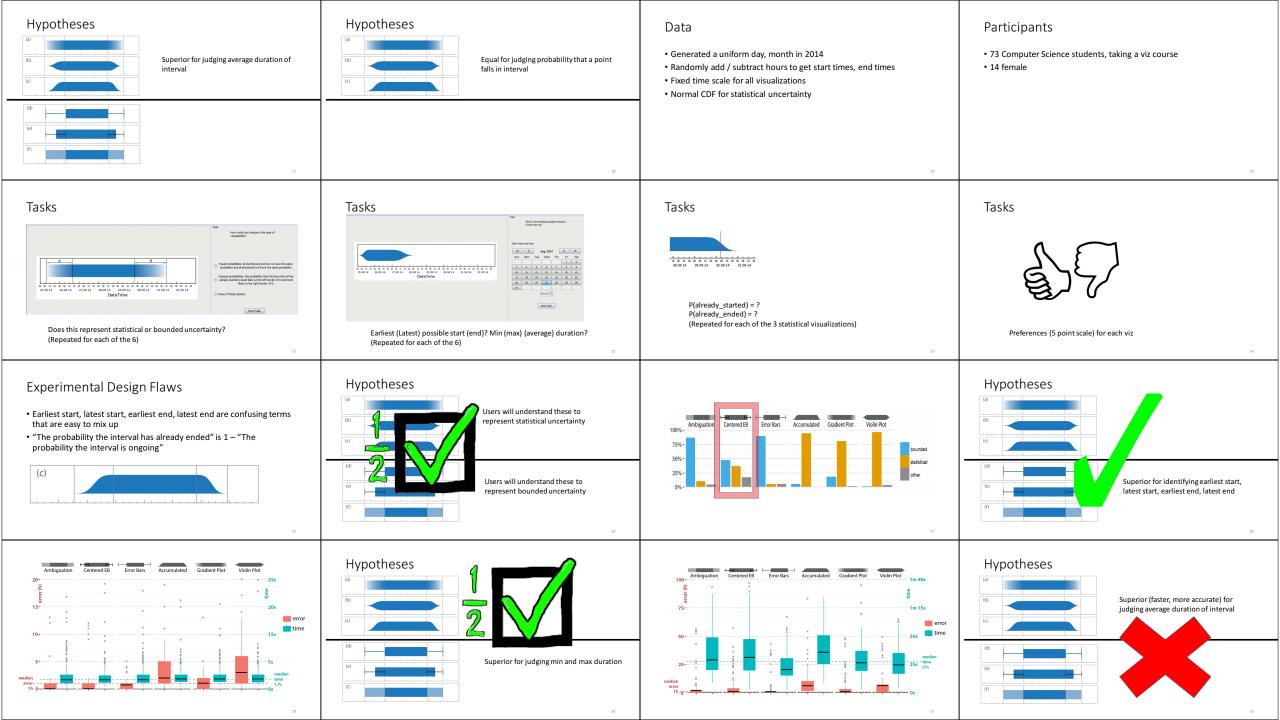
Hypotheses

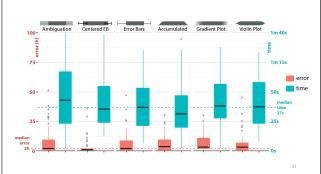


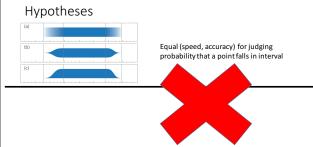


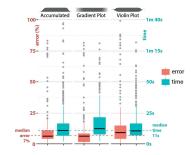
















Criticisms

- Does it make sense to compare statistical and bounded distributions in the same visualizations?
- Limited scope of what was tested: normal distribution, no cases where the certain part of the interval is shorter than it's starting uncertainty
- Dependencies between intervals were not explored

Conclusions

- Compared six ways of encoding temporal uncertainty
- If you don't need statistical uncertainty, any of the three bounded encodings are good
- Gradient plots are best for statistical uncertainty

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