

# Introduction

**Prosody:** the melodic structure of speech  $\rightarrow$  meaning in speech **Our focus:** uncertainty in prosody  $\rightarrow$  entropy **Question:** Does the amount of uncertainty a person expresses correlate with the ambiguity of the color one is trying to describe? Hypothesis: If so, there will be prosodic information that distinguishes utterances in low-entropy contexts from utterances in highentropy contexts.

# Methods Data: color names



http://imgs.xkcd.com/blag/satfaces\_map\_1024.png

### **Classification:**





Participant saying "dark green" with try tone (H-H%).

# A Methodology for Using Crowdsourced Data to Measure Uncertainty in Natural Speech

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# Questions for Future Work

• Were these prosodic cues really measuring uncertainty or just the difficulty of the task?

Why didn't intonation play a bigger role? Why were people mostly using H-L% monotone or L-H%? Could we make the