

Previous Work

Previous Work

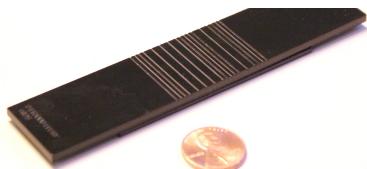
Passive Acoustic Sensing

Passive Acoustic Techniques



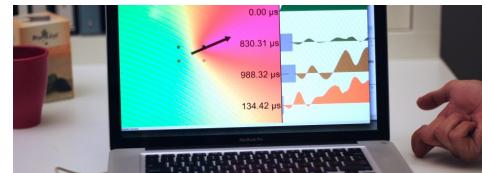
Scratch Input: Harrison et al.
UIST '08

Passive Acoustic Techniques



Acoustic Barcodes: Xiao et al.
UIST '12

Passive Acoustic Techniques



Toffee; Xiao et al.
MobileHCI '14

Previous Work

Active Acoustic Sensing

Active Acoustic Techniques

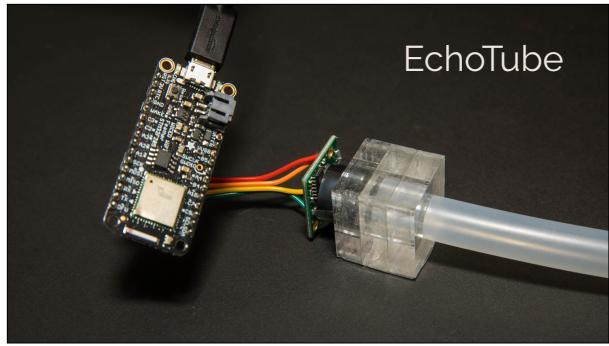


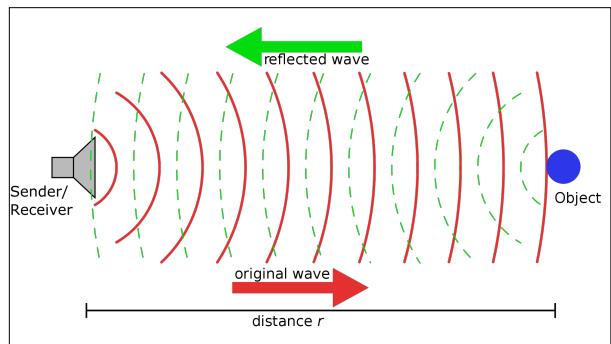
Touch & Activate: Ono et al.
UIST '13

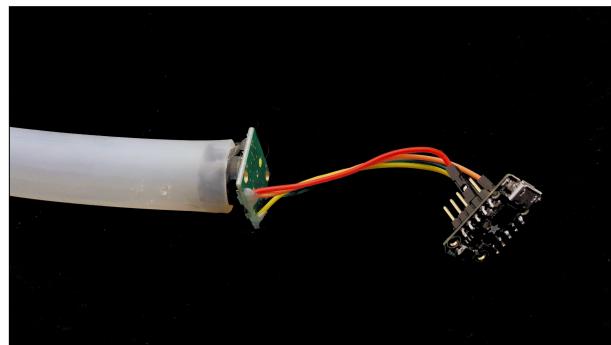
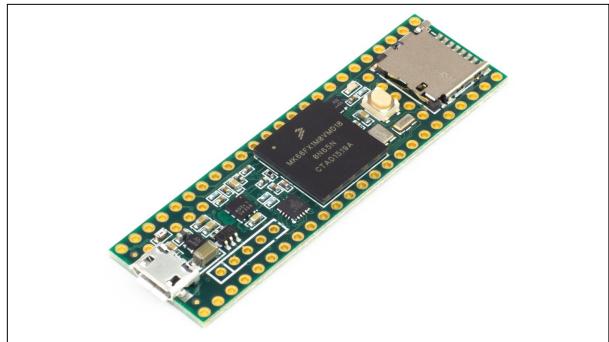
Active Acoustic Techniques

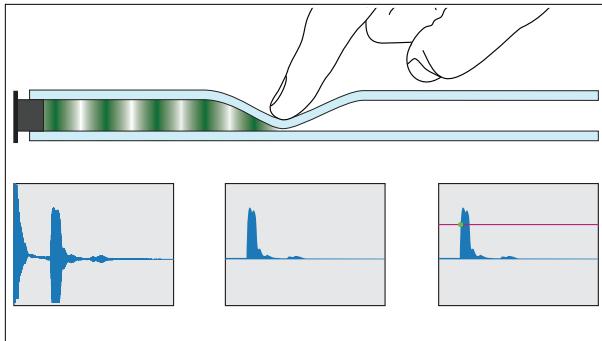


Acoustumruments: Laput et al.
CHI '15



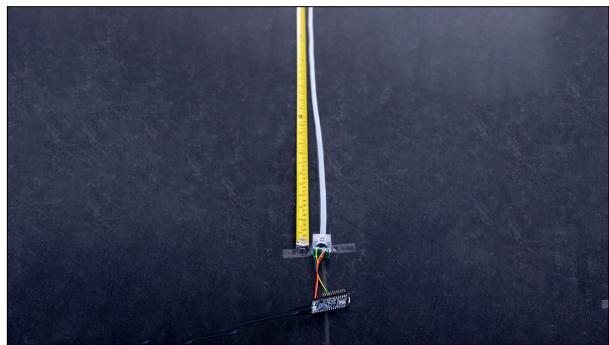


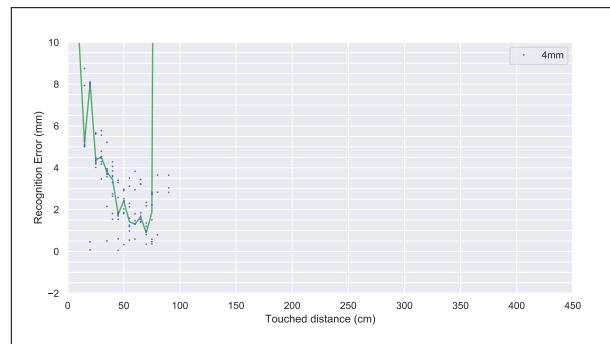
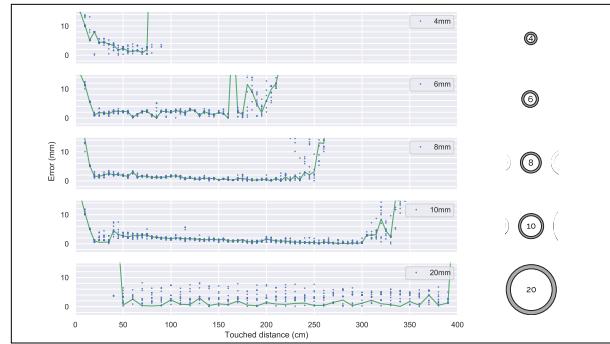


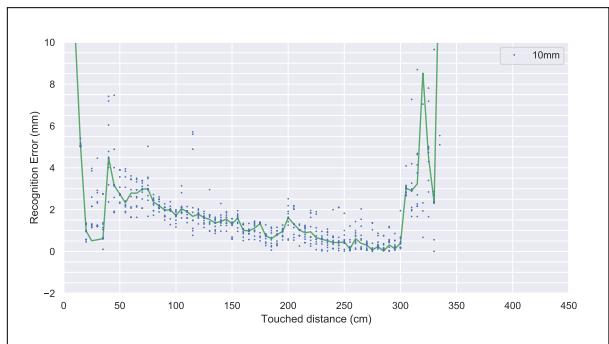
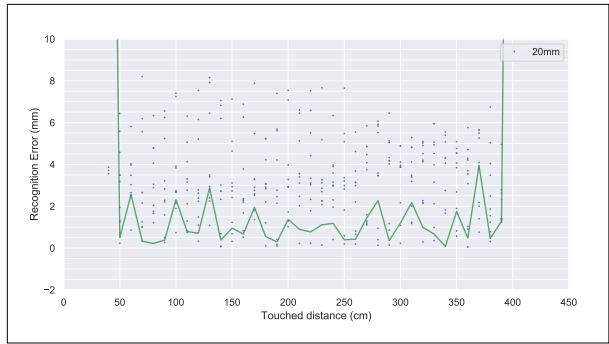


Performance
Testing

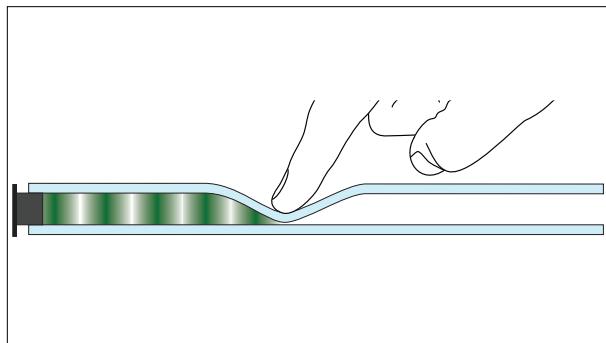
Single Press Accuracy

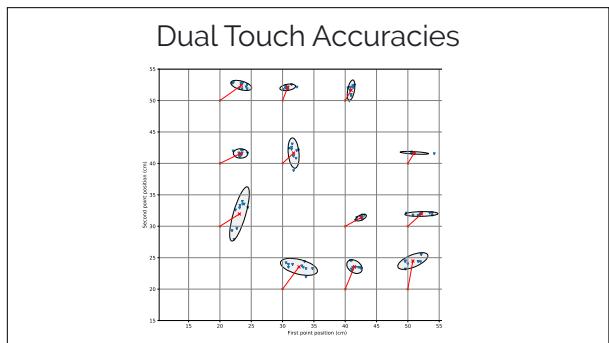
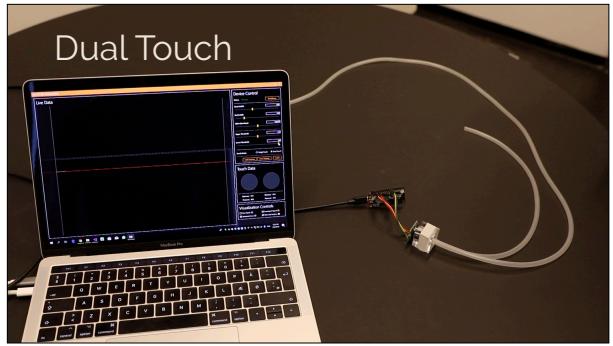






Dual Touch

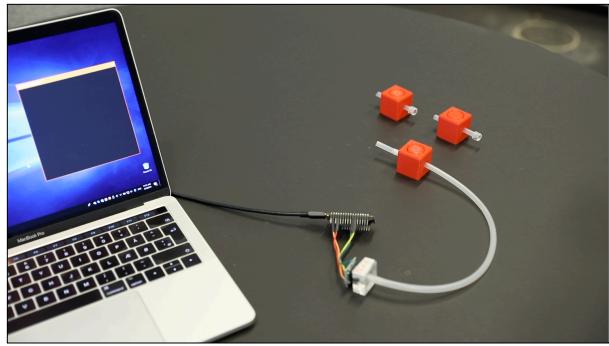




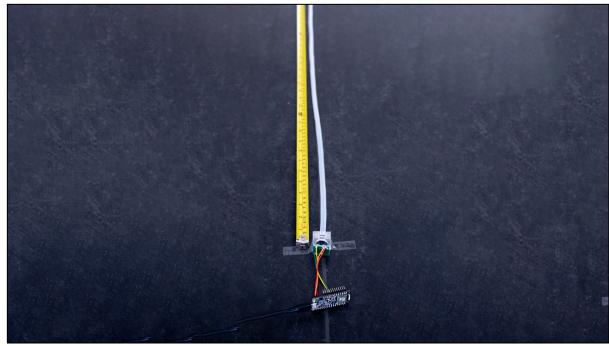
Repetition Rate

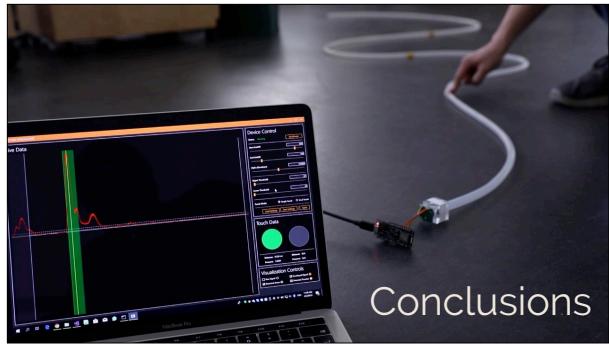
Applications





Limitations





Conclusions

