



SmartBrowse

A new web experience

Outline

- Introduction
- Modalities
 - CASE and CARE
- Problems
- Evaluation
- Conclusion
- Video

Introduction

- New way of HCI
- Use human intuitive modalities
- „Replace“ keyboard and mouse
- Browser as proof of concept

Modalities

- Voice
- Touch
- Gestures

CASE and CARE

- CASE (machine-site)
 - Exclusive (mostly)
 - Synergistic (scroll)
 - Alternate („show links“)
- CARE (human-site)
 - Assignement (switch-views)
 - Synergistic (scroll)
 - Equivalence (navigation)

Problems

- Parsing the websites
- JavaScript
- Modalities
 - Speech and password
 - Accelerometer and bluetooth
- Language

Evaluation

- Web browsing
 - Look up some information
 - Localize a given point on a map
- Between-subject
 - 12 test users
- User feedback

Evaluation

- T-Test

- $\alpha = 0.05$

	Task 1		Task 2	
Test User	Smartphone	Application	Smartphone	Application
1	48	150	49	30
2	250	109	58	33
3	221	155	118	75
4	67	261	127	61
5	70	235	37	70
6	66	81	71	73

Two-tailed unpaired t-test = 0.36

Two-tailed unpaired t-test = 0.28

Conclusion

- Goals are not completely fulfilled
 - Still open problems
 - User feedback
- Not slower than mobile browser
- Intuitive
- Other fields
 - People with handicap

Video

- Let's see it!