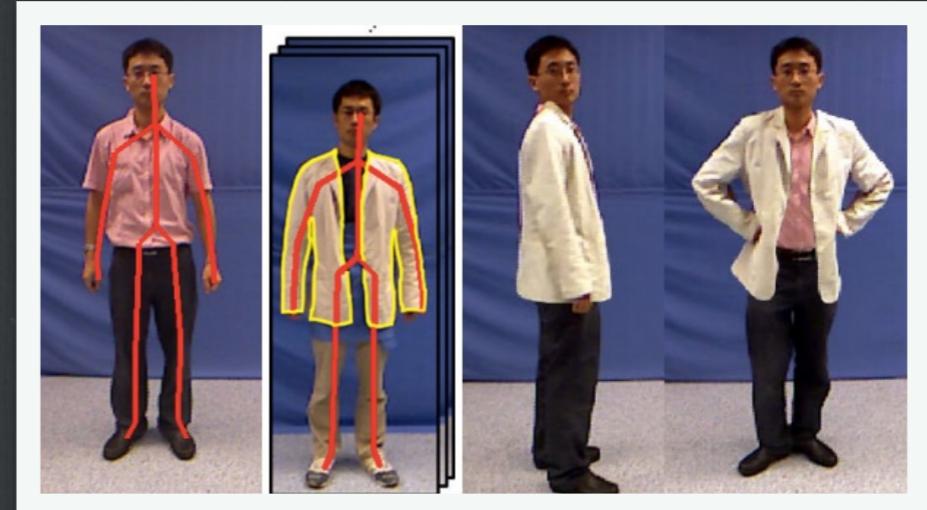
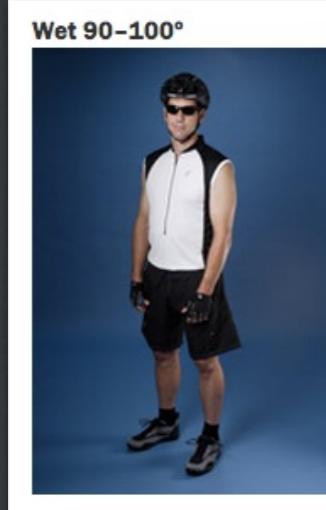


GetDressed

An answer to the question: What
do I wear today?

Background

- Many people want help deciding what to wear
- Several clothing advisor apps exist, but not personalized or contextually aware



Our System

- GetDressed gives personalized, contextually-aware outfit recommendations

- Key innovation:

- incorporates contextual information, and makes recommendations from user's own wardrobe



Get Dressed!



GetDressed's Contributions

- Research contribution:
 - uses contextual information with style metrics for outfit recommendations
 - a fast way to build representative wardrobe model
- Broader impact:
 - help people be more expressive and creative with their clothing

GetDressed Implementation

- Recommendations engine process
 - filter by context
 - generate outfit candidates
 - score candidates with evaluative criteria

- Virtual wardrobe
 - populated using virtual shopping mode
 - two sources: visual catalog, and web search

60 degree *Going to a gala..*



GetDressed Prototype

What's missing

- outfit customizations
- mood as contextual input
- updating outfit history
- metadata extraction in search results

User Interaction

- Three modes of interaction
 - profile input
 - virtual shopping mode
 - outfit advisor mode
- Support for limited annotations

DEMO



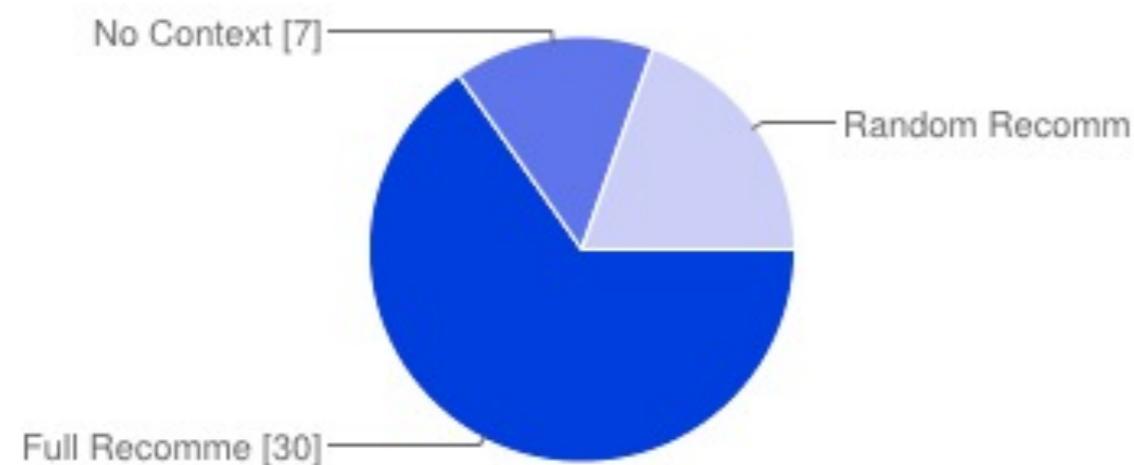
Evaluation

- User study in 2 parts
 - system evaluation
 - recommendations evaluation
- In-person evaluation and via Amazon Mechanical Turk
 - 38 evaluated system, 74 evaluated recommendations

Evaluation Findings

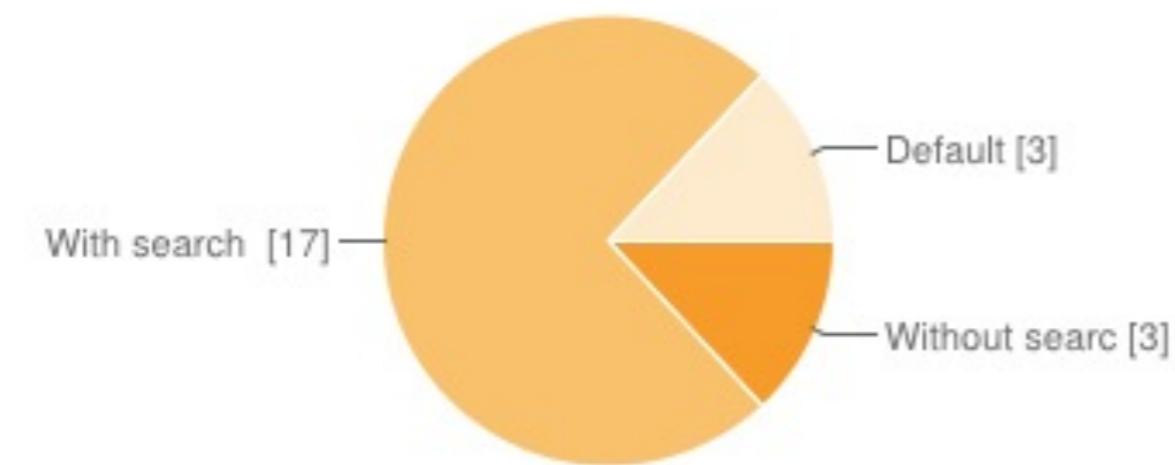
- people liked recommendations and wardrobe builder
- improvement over random was low (but statistically significant)
- effect size of 0.17, $p = 0.0065$

Which kind of advisor mode you think it is more helpful?



Full Recommendations	30	65%
No Context	7	15%
Random Recommendations	9	20%

Which one do you like best?



Without search function	3	13%
With search function	17	74%
Default	3	13%

Discussion of Results

- Good that system was thought useful, but marginal improvement over random was very low
- Small effect size could be due to:
 - low personalization of current prototype
 - current clothing dataset makes almost anything look good together

Future Work

- More personalization in recommendation engine
- Automatic metadata extraction from web sources
 - more metadata-friendly sources or possibly computer vision analysis
- Live visualization of outfits on users
 - using visual body tracking

Questions

