Jasper

Intelligent Wardrobe Assistant

Steven Austin

Design Researcher

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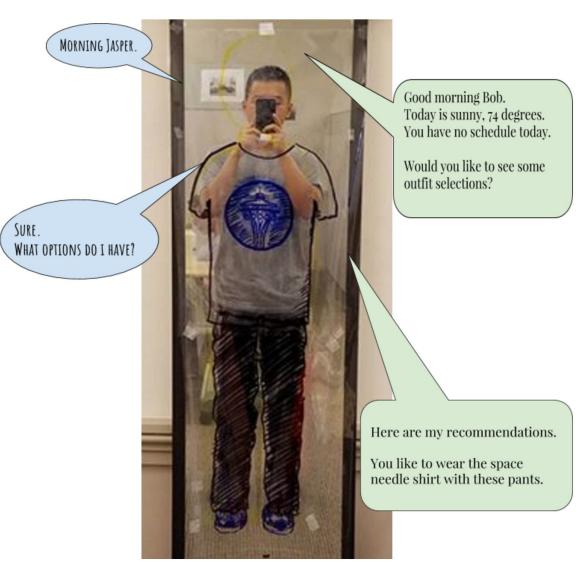
Product Engineer



Problem Space

- Outfits are a key component of interpersonal assessments
- Outfit selection can be time-consuming and difficult
- Large wardrobes can result in individuals not taking advantage of their attire
- Individuals do not harness the full potential of their clothing
- A disorganized wardrobe can result in items not being worn—how can individuals properly manage their wardrobe?

Initial Paper Prototype





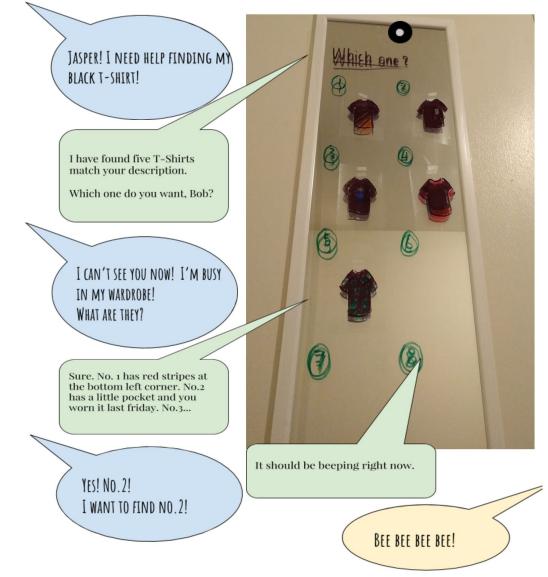
Nice choice Bob. I have narrowed it down to these tops based on your selection on bottom.

You can swap through them.

Sorry Bob. I will put that down on my notebook.

Just kidding, I don't have a notebook.

Initial Paper Prototype



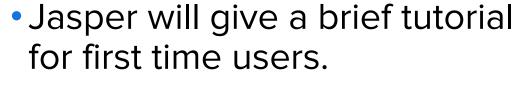
Testing Process: Heuristic Evaluation

- User Control and Freedom: Need more intuition on how to use a mirror interface
 - Is it a touch screen?
 - What are the voice commands?
 - How should I switch between items?
- Visibility of System Status: Need an icon or progress bar to indicate which item is being picked for now.
- User control and Freedom: Need to enable user customized filter on outfit selections

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Testing Process: Heuristic Evaluation

- Step 1: Refinements after Heuristic Evaluation





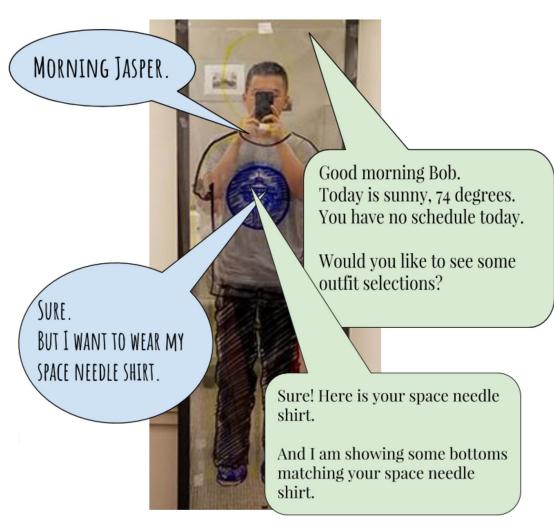
Swipe left and right to switch between items.

If you see something you like, tell me, and I will add it to your outfit for the day.

Hello.

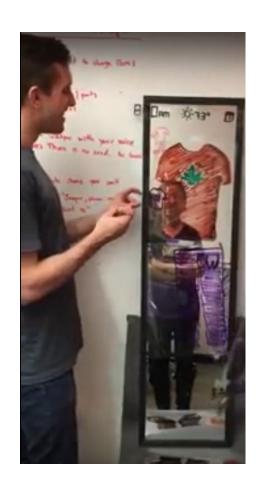
Testing Process: Heuristic Evaluation

- Step 1: Refinements after Heuristic Evaluation



- Allow users to input voice command on following features:
 - Access additional information
 - Filter search results and outfit recommandations

Testing Process: Usability Test 1



• Aesthetic and minimalist design: The information bar on top of the mirror is confusing and not necessary when dressing.

 Consistency and standards: Using real human improvised voice interaction is confusing and gives out too many hints.

Testing Process: Usability Test 1

- Step 2: Refinements after Usability Test 1



 Ability to remove Time/Calendar/Weather display with gestures.

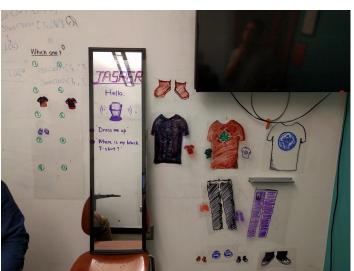


 Have the scripts predefined and makeup responses according to the flow chart as well as some special guidelines.

Testing Process: Usability Test 2 & 3







 Help and Documentation: He did not fully understand the coverage of Jasper's functionalities.

- Recognition rather than recall: He could not remember the commands and gestures through out the process.
- Consistency and standards: User did not realize that the default section was already based on selection made already.

Testing Process: Usability Test 2 & 3

- Step 3: Refinements after Usability Test 2 & 3







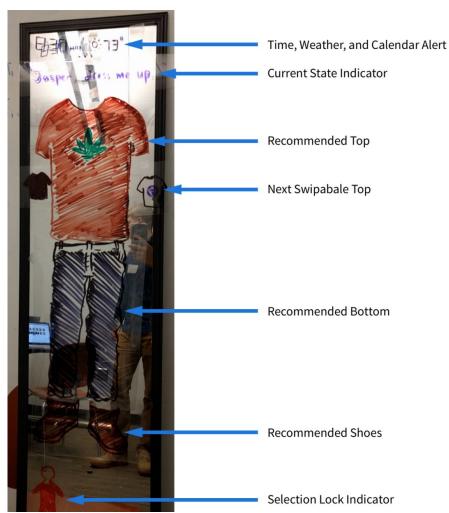
 Jasper will display and visualize user's voice input.

 Jasper will offer to help if there is no user input for a period of time.

 Jasper will specifically tell the user that the following recommendations are based on selections already made.

Final Paper Prototype

Task 1 Outfit Selection and Visualization



Task 2 Item Location





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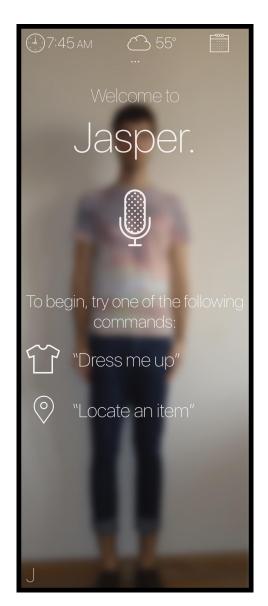


3.1.2017









In Summary...

- Iterative design helped us make subtle improvements after each round of feedback
- Testing with consistency takes practice
- User confusion during testing leads to major design improvements
- Consider all feedback