

Outfit Recommendation System – Speago

1. Description

Everyone has selecting obstacles and everyone is eager to know what fit them actually. Imagine, if there exists a machine that would be able to tell you what to do and what fits you, how great your life could be!

Today in our system, user only have to speak to the phone that where you want to go and your purpose, your phone is able to transform your request to several suitable outfits for you. You choose your favorite outfit, and your wardrobe takes them out for you!

2. Functionality

An outfit system that can create an clothing database by image recognition and grasp the user requests from app by voice recognition. For example, if the user says “I want to go out for a date”, our system would get the features of this sentence and use these features to choose couple of suitable outfits, then app would display them for user to choose.

3. System Contents

1. **Database Construction:** According your clothes in your wardrobe or detecting the clothes, the system will construct the “wardrobe database.” Moreover, clothes in it will have several tags, which are features like good-looking, warm or cool.
2. **Natural Language Grasping:** User say a sentence, and our system will analyze what tags exist in the sentence.
3. **Image Detection:** User puts the clothe in front of the wardrobe, and the system will automatically detect the clothes and figuring out tags it have.
4. **App GUI:** User can file a request to the phone, and our app will display several outfits that conform to your request on your phone for you.

4. Technology Supports

1. **Azure API:** image recognition, voice-to-text Bing API
2. **Dropbox API:** store files in Dropbox database
3. **Google Cloud Platform:** App Engine to create web database for communication between our App and sever.
4. **Toolkits:** utilize word2vec, jieba to grasp the text file request from the app to extract tags from it
5. **App Inventor 2:** build the App that is able to receive voice and transport it to Dropbox and get outfits pictures from Dropbox for displaying to the user.

5. Demo Video and Pictures

Video Link: <https://www.dropbox.com/s/a7yshfeljyuckb/Speago.mp4?dl=0>

