

Tutorial 5 Assignment (Due 02/22/17 by 11:59 PM)**Dayu Wang (45)****1. Spark Programming - Image Classification****1.1. Description of Dataset**

The dataset consists of **emoji** icons. The data is separated into 3 classes, the *smiling* icons, *angry* icons and *crying* icons. I used the method mentioned in tutorial class and **Random Forest** algorithm. **Figure 1** lists some images in my dataset.



Figure 1. Examples of my dataset of **emoji** of smiling, crying, and angry.

There are **60** training images (20 for each class) and **9** test images (3 for each class).

1.2. Purpose behind Image Classification

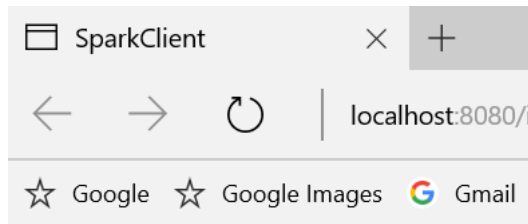
Image classification applied on **emoji** impressions can significantly help researches on cross-platform emoji interpretation area. It opens a novel way to recognize and translate new impressions, with the rapid development of new platform/devices nowadays.

1.3. Accuracy and Confusion Matrix

```

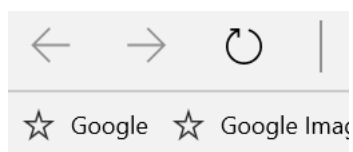
Output.txt - Notepad
File Edit Format View Help
===== Confusion Matrix =====
1.0  0.0  2.0
2.0  0.0  1.0
0.0  0.0  2.0
Accuracy: 0.375

```

2. Spark Client - Web System - Word Count

COMP-SCI 5542 (SP17)

Tutorial 5 - Assignment - Question 2

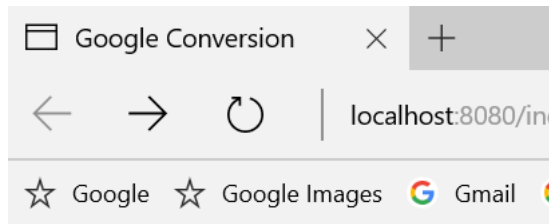
Dayu Wang (45)Document 

Result

```
a: 2
man: 2
is: 1
```

URL Working

3. Google Conversion



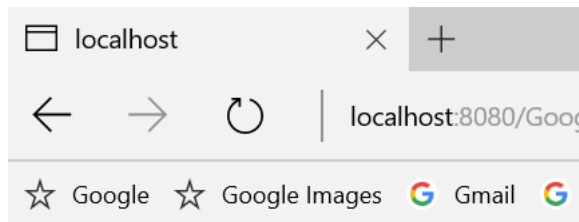
COMP-SCI 5542 (SP17)

Tutorial 5 - Assignment - Question 3

Dayu Wang (45)

Topic:

Message: ×



The video is mainly about Dog.
The message is about dog.

URL Working