

Software Design HW3

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1. Project Overview: What were you trying to accomplish? What was your general approach?

I was trying to make a program that, if I put an URL and the name of the file I want to make as .html , count the numbers of subjective(positive), negative, neutral sentences each using a sentiment function and makes html file with colored sentences (blue for positive, red for negative, and black for neutral).

2. Implementation: How does your code work? What libraries did you use? How would someone (for instance a NINJA) run your code? What data structures (e.g. lists, dictionaries) did you use in your program and why?

If you run the code, you will enter the URL you want to process, and the file name you want to create as html. Then, it will process the URL with plaintext format, and print out how many total, subjective, negative, neutral sentences appears in the given URL. And it will also create the html file which has colors in each sentences.

I used pattern.web to get URL and process it, pattern.en to use sentiment function to tell if the sentences are subjective, negative or neutral, and re library to split whole text into sentences. I googled the split_Sentences() function (<http://stackoverflow.com/questions/4576077/python-split-text-on-sentences>) because I had no idea how to split it.

I used a list of strings (called sentence_list) to save all the sentences in the given URL and implement them.

3. Include some examples of your program's output.

When I put
Input URL : <http://www.azlyrics.com/lyrics/pharrellwilliams/happy.html>
Input Name of the File : HAppy

It prints out
119 Total Sentences.

24 Subjective Sentences.

14 Negative Sentences.

81 Neutral Sentences.

Successfully created HAppy.html

And creates a HAppy.html in the folder.

The result html site looks like

PHARRELL WILLIAMS LYRICS - Happy

"Happy" lyrics

MP3 EmailPrint

PHARRELL WILLIAMS LYRICS

"Happy"

[Verse 1:]

It might seem crazy what I'm about to say

Sunshine she's here, you can take a break

I'm a hot air balloon that could go to space

With the air, like I don't care baby by the way

{Uh}

[Chorus:]

Because I'm happy

Clap along if you feel like a room without a roof

Because I'm happy

Clap along if you feel like happiness is the truth

Because I'm happy

Clap along if you know what happiness is to you

Because I'm happy

Clap along if you feel like that's what you wanna do

[Verse 2:]

Here come bad news talking this and that, yeah,

Well, give me all you got, and don't hold it back, yeah,

Well, I should probably warn you I'll be just fine, yeah,

No offense to you, don't waste your time

Here's why

[Chorus]

{Hey

Go

Uh}

[Bridge:]

(Happy)

Bring me down
Can't nothing
Bring me down
My level's too high
Bring me down
Can't nothing
Bring me down
I said (let me tell you now)
Bring me down
Can't nothing
Bring me down
My level's too high
Bring me down
Can't nothing
Bring me down
I said

[Chorus x2]

{Hey
Go
Uh}

(Happy) [repeats]
Bring me down

can't nothing

Bring me down

my level's too high

Bring me down

can't nothing

Bring me down, I said (let me tell you now)

[Chorus x2]

{Hey
C'mon}

[Thanks to Afza, Jacob Perry, Ciara, Susan Hubbard, curtis nash, Todd for correcting these lyrics](#)

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4. Reflection: from a process point of view, what went well? what could you improve? Was your project appropriately scoped? Did you have a good plan for unit testing?

The coloring process went pretty well, as you can see, it sorts the sentiment of the sentences as I wanted it to do so. But, I could only split the sentences using '.', '?', '!', '\n' as sentence enders. I may find other ways to figure out what actual sentences are.