Intro to Rule-Based Modeling and Other Topics

Princeton AI4ALL: NLP Group
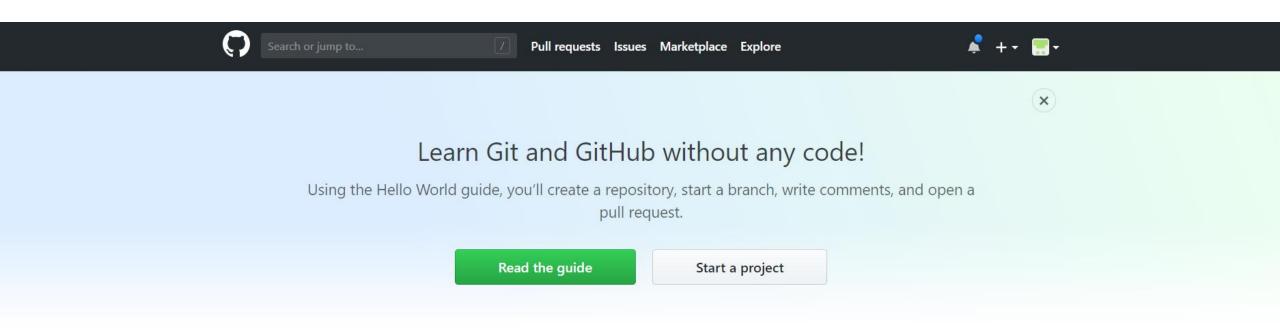
Wordnet

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wordnet.princeton.edu

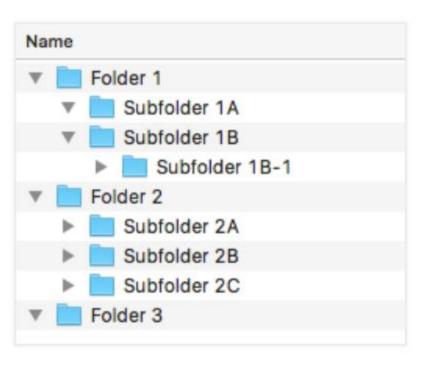http://www.nltk.org/howto/wordnet.html

Some Background Material

Search or jump to...

Learn Git and GitHub without any code!

Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

Read the guide   Start a project

Github

```
git clone […]
```

Github

```
git clone […]

git pull
```

Folders

https://zapier.com/blog/organize-files-folders/

Folders

```
ls


pwd


cd [path]
    cd .
    cd ..
```

Cheat sheet: https://gist.github.com/poopsplat/7195274

Folders

```
ls


pwd


cd [path]
    cd .
    cd ..
```

Now let's practice:

1. Open terminal
2. Type cd ~

Cheat sheet: https://gist.github.com/poopsplat/7195274

Review of Python and Pandas

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Parameters + Functions
Dataframes
Documentation
Errors

Rule-Based Approaches

What is classification?

"Spam" vs "Ham"

"Tumor" vs "No tumor"

"Positive" vs "Negative"

Constructing rule-based approaches

How would you classify these as a person?

SIX chances to win CASH! From 100 to 20,000 pounds txt> CSH11 and send to 87575. Cost 150p/day, 6days, 16+ TsandCs apply Reply HL 4 info

Just forced myself to eat a slice. I'm really not hungry tho. This sucks. Mark is getting worried. He knows I'm sick when I turn down pizza. Lol

How might you write a classifier to do this classification automatically?

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How might you write a classifier to do this classification automatically?

```
spam_words =
nonspam_words =
if _____:



else:
```

What about this example?

Social worker and able bodied . Can help bring meals to people , or simply drop off donations - can provide toiletries , blankets , jackets , hats , food , etc .

Going out to scavenge for allergy medicine . Hopefully someone is open otherwise my next painting with be splatter technique . # sandy

Went to my old job to get some food b4 this storm lmao

What might you want to classify? How would you do that?

Social worker and able bodied . Can help bring meals to people , or simply drop off donations - can provide toiletries , blankets , jackets , hats , food , etc .

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https://github.com/abisee/sailors2017/blob/master/data/labeled-data-singlelabels-test.csv

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bit.ly/2uQ9vrQ