Rule-Based Approaches

Princeton AI4ALL: NLP Group

What is classification?

- "Spam" vs "Ham"
- "Tumor" vs "No tumor"
- "Positive" vs "Negative"

Constructing rule-based approaches

How would you classify these?

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?

Discuss with your neighbors

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, and how would you do it?

Discuss with your neighbors

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

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