# Assignment 3 FOR DUMMIES

So we got NG-Ram corpus with a lot of sentences.

Each sentence Formatis:

head\_word<TAB>syntactic-ngram<TAB>total\_count<TAB>counts\_by\_year



and the syntatic-horam formatis:

The syntactic-ngram format is a space-separated list of tokens, each token format is "word/pos-tag/dep-label/head-index".

So we got toxess,

each token has word (like likes), 'deplated' (like 'subject'), 'index' for the next word related to it (like 'dog').

So we will get from it "world word? dep-label" and add to it "total count"

So step 1 ve will get all syntatic horam ipputs, and their total count.

and output "world words dep-label total-count" for mapper

this is after we used stemmer on the works.

(stemmer taxes word like "walked" | "valking" and change them to walk")

and step 1 reducer will combine them (see example in the end).

So there all kinds of dep-label. So in <u>Step1A</u> we collect all of the used types of tep-labels to use in step 2.

steplA ouput can be like "Ecomp det pobj prep..."

(tep-types used homes)

In stop2 we create for each words pair a nector.

The rector is the size of the amount of dep-labels types?

So if it step 1A regot 5 types, each cordinates will be the abount of apperances of that specific dep-labels.

("world world 0 0 25 3 8"

mapper put all the types to the reliant key reducer created the vectors.

In Step 3 we take our vectors deplaced sizes. (From here I'm hot shire) and contralte on that data all 24 equations to create a vector sized 24 to be used in the training model next?...

(plus, I'm not sure if the equation get the true data)

(I hate math)

# Example:

### (ass3 ihput temp. fxt). Step 1 input

# output:

```
an boi det
                 112
an instant det
                 56
boi for pobj
                 112
ceas root ccomp 112
for ceas prep
                 112
for walk prep
                 56
walk root ccomp 56
```

step 1A input step 1A output:

ccomp det pobj prep

(all dep-types) ( Will be our vector)

step 2 output:

an,boi 0 112 0	0
an,instant	0 56 0 0
boi, for 0 0 112	0
ceas, root	112 0 0 0
for, ceas	0 0 0 112
for, walk	0 0 0 56
instant, for	0 0 56 0
walk,root	56 0 0 0

our vectors!



step3 input:

PS C:\Users\naveh\Desktop\value and interval and interval

vector sized 24 (Ve an change to 6xx later)

nov train a model?

(hot sure)

I think we seed to conside the output format of Step3 to be

To train a model with sized 24 matrix using WEKA.

And make sure Step3 is what we need to do + check the equations...

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