

Return to "Natural Language Processing Nanodegree" in the classroom

Part of Speech Tagging

CODE REVIEW	
	HISTORY
/leets Sp	ecifications
ongratulations	for passing HMM Tagger project 🦫
ay Udacious!	
Include Include	HMM Tagger.ipynb displaying output for all executed cells es HMM Tagger.html, which is an HTML copy of the notebook showing the output from ing all cells

No changes are made in test case assertions.

Baseline Tagger Implementation

Emission count test case assertions all pass.

- · The emission counts dictionary has 12 keys, one for each of the tags in the universal tagset
- "time" is the most common word tagged as a NOUN

Well Done! Emission counts dictionary has 12 keys and "time" is the most common word tagged as NOUN.

Suggestion: you could use nested defaultdict to avoid explicit initialization on the second key-value pair.

```
nested_dict = defaultdict(lambda: defaultdict(int))
for tag, word in zip(sequences_A, sequences_B):
    nested_dict[tag][word] += 1
return nested_dict
```

Baseline MFC tagger passes all test case assertions and produces the expected accuracy using the universal tagset.

- >95.5% accuracy on the training sentences
- 93% accuracy the test sentences

MFC tagger accuracy looks good. 👍

Calculating Tag Counts

```
All unigram test case assertions pass
```

Your tag unigrams looks good.

You could try this implementation using | itertools.chain | as well:

```
def unigram_counts(sequences):
    return Counter(chain(*sequences))

tag_unigrams = unigram_counts(data.training_set.Y)
```

All bigram test case assertions pass

Your tag bigrams looks good.

You could try this implementation using | itertools.chain | as well:

```
def bigram_counts(sequences):
   counts = Counter()
   counts.update(chain(*(zip(s[:-1], s[1:]) for s in sequences)))
   return counts

tag_bigrams = bigram_counts(data.training_set.Y)
```

All start and end count test case assertions pass

Well done! Starting and ending counts are correctly calculated and test case assertions are passing.

Basic HMM Tagger Implementation

All model topology test case assertions pass

All Model topology test case assertion are passing.

Basic HMM tagger passes all assertion test cases and produces the expected accuracy using the universal tagset.

- >97% accuracy on the training sentences
- >95.5% accuracy the test sentences

Great! Accuracy on both training and testing data sets are above threshold. 👍

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