

10-FINAL

December 15, 2018

1 Assignment 10

Find your favorite news source and grab the article text.

1. Show the most common words in the article.
2. Show the most common words under a part of speech. (i.e. NOUN: {'Bob':12, 'Alice':4,})
3. Find a subject/object relationship through the dependency parser in any sentence.
4. Show the most common Entities and their types.
5. Find Entites and their dependency (hint: entity.root.head)
6. Find the most similar words in the article

In [1]: !pip install spacy

```
Requirement already satisfied: spacy in c:\users\erin\anaconda3\lib\site-packages (2.0.13)
Requirement already satisfied: numpy>=1.15.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: msgpack-numpy<0.29,<0.4.4.0murmurhash>=0.28 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: cymem<1.32,>=1.30 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: preshed<2.0.0,>=1.0.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: thinc<6.11.0,>=6.10.3 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: plac<1.0.0,>=0.9.6 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: ujson>=1.35 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: dill<0.3,>=0.2 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: regex==2018.01.10 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: msgpack>=0.3.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: murmurhash<0.29.0,>=0.28.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: cytoolz<0.10,>=0.9.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: wrapt<1.11.0,>=1.10.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: tqdm<5.0.0,>=4.10.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: six<2.0.0,>=1.10.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: pyreadline>=1.7.1 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: idna<2.7,>=2.5 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: urllib3<1.23,>=1.21.1 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
Requirement already satisfied: toolz>=0.8.0 in c:\users\erin\anaconda3\lib\site-packages (from spacy)
```

You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

```
In [8]: text= """Four score and seven years ago our fathers brought forth on this continent, a  
conceived in Liberty, and dedicated to the proposition that all men are created equal.  
engaged in a great civil war, testing whether that nation, or any nation so conceived  
can long endure. We are met on a great battle-field of that war. We have come to dedica  
of that field, as a final resting place for those who here gave their lives that that  
live. It is altogether fitting and proper that we should do this. But, in a larger sens  
dedicate we can not consecrate we can not hallow this ground. The brave men, living  
who struggled here, have consecrated it, far above our poor power to add or detract. Th  
little note, nor long remember what we say here, but it can never forget what they did  
for us the living, rather, to be dedicated here to the unfinished work which they who  
thus far so nobly advanced. It is rather for us to be here dedicated to the great task  
before us that from these honored dead we take increased devotion to that cause for wh  
the last full measure of devotion that we here highly resolve that these dead shall no  
in vain that this nation, under God, shall have a new birth of freedom and that gover  
people, by the people, for the people, shall not perish from the earth."""
```

```
In [1]: !python -m spacy download en_core_web_sm
```

Requirement already satisfied: en_core_web_sm==2.0.0 from https://github.com/explosion/spacy-m

Linking successful

C:\Users\Erin\Anaconda3\lib\site-packages\en_core_web_sm -->

C:\Users\Erin\Anaconda3\lib\site-packages\spacy\data\en_core_web_sm

You can now load the model via spacy.load('en_core_web_sm')

You are using pip version 10.0.1, however version 18.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

```
In [2]: import spacy
```

```
In [6]: processor= spacy.load('en_core_web_sm')
```

```
In [10]: processed_text= processor(text)  
processed_text
```

```
Out[10]: Four score and seven years ago our fathers brought forth on this continent, a new nat  
conceived in Liberty, and dedicated to the proposition that all men are created equal  
engaged in a great civil war, testing whether that nation, or any nation so conceived  
can long endure. We are met on a great battle-field of that war. We have come to dedi  
of that field, as a final resting place for those who here gave their lives that that  
live. It is altogether fitting and proper that we should do this. But, in a larger ser
```

dedicate we can not consecrate we can not hallow this ground. The brave men, living who struggled here, have consecrated it, far above our poor power to add or detract. A little note, nor long remember what we say here, but it can never forget what they did for us the living, rather, to be dedicated here to the unfinished work which they who thus far so nobly advanced. It is rather for us to be here dedicated to the great task remaining before us that from these honored dead we take increased devotion to that cause for which they gave the last full measure of devotion that we here highly resolve that these dead shall not live in vain that this nation, under God, shall have a new birth of freedom and that government of the people, by the people, for the people, shall not perish from the earth.

```
In [ ]: #Show the most common words in the article.
        #Show the most common words under a part of speech. (i.e. NOUN: {'Bob':12, 'Alice':4,})
        #Find a subject/object relationship through the dependency parser in any sentence.
        #Show the most common Entities and their types.
        #Find Entities and their dependency (hint: entity.root.head)
        #Find the most similar words in the article
```

```
In [ ]: #SENTENCES
```

```
In [11]: n = 0
        for sentence in processed_text.sents:
            print(n, sentence)
            n+=1
```

```
0 Four score and seven years ago our fathers brought forth on this continent, a new nation,
conceived in Liberty, and dedicated to the proposition that all men are created equal.
1 Now we are
engaged in a great civil war, testing whether that nation, or any nation so conceived and dedicated
can long endure.
2 We are met on a great battle-field of that war.
3 We have come to dedicate a portion
of that field, as a final resting place for those who here gave their lives that that nation might
live.
4 It is altogether fitting and proper that we should do this.
5 But, in a larger sense, we can not
dedicate
6
7 we can not consecrate
8 we can not hallow this ground.
9 The brave men, living and dead,
who struggled here, have consecrated it, far above our poor power to add or detract.
10 The world will
little note, nor long remember what we say here, but it can never forget what they did here.
11 It is
for us the living, rather, to be dedicated here to the unfinished work which they who fought here
thus far so nobly advanced.
12 It is rather for us to be here dedicated to the great task remaining
before us that from these honored dead we take increased devotion to that cause for which they
the last full measure of devotion that we here highly resolve that these dead shall not have
```

in vain that this nation, under God, shall have a new birth of freedom and that government of the people, by the people, for the people, shall not perish from the earth.

```
In [ ]: #WORDS IN ARTICLE
        #WORDS WITH POS
```

```
In [15]: n = 0
        for sentence in processed_text.sents:
            for token in sentence:
                print(n, token, token.pos_, token.lemma_, token.nbor())
                n+=1
```

```
0 Four NUM four score
1 score NOUN score and
2 and CCONJ and seven
3 seven NUM seven years
4 years NOUN year ago
5 ago ADV ago our
6 our ADJ -PRON- fathers
7 fathers NOUN father brought
8 brought VERB bring forth
9 forth PART forth on
10 on ADP on this
11 this DET this continent
12 continent NOUN continent ,
13 , PUNCT , a
14 a DET a new
15 new ADJ new nation
16 nation NOUN nation ,
17 , PUNCT ,

18
   SPACE
   conceived
19 conceived VERB conceive in
20 in ADP in Liberty
21 Liberty PROPN liberty ,
22 , PUNCT , and
23 and CCONJ and dedicated
24 dedicated VERB dedicate to
25 to ADP to the
26 the DET the proposition
27 proposition NOUN proposition that
28 that ADJ that all
29 all DET all men
30 men NOUN man are
31 are VERB be created
```

32 created VERB create equal
33 equal ADJ equal .
34 . PUNCT . Now
35 Now ADV now we
36 we PRON -PRON- are
37 are VERB be

38

SPACE

engaged

39 engaged VERB engage in
40 in ADP in a
41 a DET a great
42 great ADJ great civil
43 civil ADJ civil war
44 war NOUN war ,
45 , PUNCT , testing
46 testing VERB test whether
47 whether ADP whether that
48 that DET that nation
49 nation NOUN nation ,
50 , PUNCT , or
51 or CCONJ or any
52 any DET any nation
53 nation NOUN nation so
54 so ADV so conceived
55 conceived VERB conceive and
56 and CCONJ and dedicated
57 dedicated VERB dedicate ,
58 , PUNCT ,

59

SPACE

can

60 can VERB can long
61 long ADV long endure
62 endure VERB endure .
63 . PUNCT . We
64 We PRON -PRON- are
65 are VERB be met
66 met VERB meet on
67 on ADP on a
68 a DET a great
69 great ADJ great battle
70 battle NOUN battle -
71 - PUNCT - field
72 field NOUN field of
73 of ADP of that

74 that DET that war
75 war NOUN war .
76 . PUNCT . We
77 We PRON -PRON- have
78 have VERB have come
79 come VERB come to
80 to PART to dedicate
81 dedicate VERB dedicate a
82 a DET a portion
83 portion NOUN portion

84
SPACE
of
85 of ADP of that
86 that DET that field
87 field NOUN field ,
88 , PUNCT , as
89 as ADP as a
90 a DET a final
91 final ADJ final resting
92 resting NOUN resting place
93 place NOUN place for
94 for ADP for those
95 those DET those who
96 who NOUN who here
97 here ADV here gave
98 gave VERB give their
99 their ADJ -PRON- lives
100 lives NOUN life that
101 that ADP that that
102 that DET that nation
103 nation NOUN nation might
104 might VERB may

105
SPACE
live
106 live ADV live .
107 . PUNCT . It
108 It PRON -PRON- is
109 is VERB be altogether
110 altogether ADV altogether fitting
111 fitting ADJ fitting and
112 and CCONJ and proper
113 proper ADJ proper that
114 that ADP that we
115 we PRON -PRON- should

116 should VERB should do
117 do VERB do this
118 this DET this .
119 . PUNCT . But
120 But CCONJ but ,
121 , PUNCT , in
122 in ADP in a
123 a DET a larger
124 larger ADJ large sense
125 sense NOUN sense ,
126 , PUNCT , we
127 we PRON -PRON- can
128 can VERB can not
129 not ADV not

130

SPACE

dedicate

131 dedicate NOUN dedicate
132 PUNCT -- we
133 we PRON -PRON- can
134 can VERB can not
135 not ADV not consecrate
136 consecrate VERB consecrate
137 PUNCT -- we
138 we PRON -PRON- can
139 can VERB can not
140 not ADV not hallow
141 hallow VERB hallow
142 PUNCT -- this
143 this DET this ground
144 ground NOUN ground .
145 . PUNCT . The
146 The DET the brave
147 brave ADJ brave men
148 men NOUN man ,
149 , PUNCT , living
150 living NOUN living and
151 and CCONJ and dead
152 dead ADJ dead ,
153 , PUNCT ,

154

SPACE

who

155 who NOUN who struggled
156 struggled VERB struggle here
157 here ADV here ,

158 , PUNCT , have
159 have VERB have consecrated
160 consecrated VERB consecrate it
161 it PRON -PRON- ,
162 , PUNCT , far
163 far ADV far above
164 above ADP above our
165 our ADJ -PRON- poor
166 poor ADJ poor power
167 power NOUN power to
168 to PART to add
169 add VERB add or
170 or CCONJ or detract
171 detract VERB detract .
172 . PUNCT . The
173 The DET the world
174 world NOUN world will
175 will VERB will

176

SPACE

little

177 little ADJ little note
178 note NOUN note ,
179 , PUNCT , nor
180 nor CCONJ nor long
181 long ADV long remember
182 remember VERB remember what
183 what NOUN what we
184 we PRON -PRON- say
185 say VERB say here
186 here ADV here ,
187 , PUNCT , but
188 but CCONJ but it
189 it PRON -PRON- can
190 can VERB can never
191 never ADV never forget
192 forget VERB forget what
193 what NOUN what they
194 they PRON -PRON- did
195 did VERB do here
196 here ADV here .
197 . PUNCT . It
198 It PRON -PRON- is
199 is VERB be

200

SPACE

for
 201 for ADP for us
 202 us PRON -PRON- the
 203 the DET the living
 204 living NOUN living ,
 205 , PUNCT , rather
 206 rather ADV rather ,
 207 , PUNCT , to
 208 to PART to be
 209 be VERB be dedicated
 210 dedicated VERB dedicate here
 211 here ADV here to
 212 to ADP to the
 213 the DET the unfinished
 214 unfinished ADJ unfinished work
 215 work NOUN work which
 216 which ADJ which they
 217 they PRON -PRON- who
 218 who NOUN who fought
 219 fought VERB fight here
 220 here ADV here have
 221 have VERB have

222

SPACE

thus

223 thus ADV thus far
 224 far ADV far so
 225 so ADV so nobly
 226 nobly ADV nobly advanced
 227 advanced ADJ advanced .
 228 . PUNCT . It
 229 It PRON -PRON- is
 230 is VERB be rather
 231 rather ADV rather for
 232 for ADP for us
 233 us PRON -PRON- to
 234 to PART to be
 235 be VERB be here
 236 here ADV here dedicated
 237 dedicated VERB dedicate to
 238 to ADP to the
 239 the DET the great
 240 great ADJ great task
 241 task NOUN task remaining
 242 remaining VERB remain

243

SPACE
before
244 before ADP before us
245 us PRON -PRON-
246 PUNCT -- that
247 that ADP that from
248 from ADP from these
249 these DET these honored
250 honored VERB honor dead
251 dead ADJ dead we
252 we PRON -PRON- take
253 take VERB take increased
254 increased VERB increase devotion
255 devotion NOUN devotion to
256 to ADP to that
257 that DET that cause
258 cause NOUN because for
259 for ADP for which
260 which ADJ which they
261 they PRON -PRON- gave
262 gave VERB give

263
SPACE
the
264 the DET the last
265 last ADJ last full
266 full ADJ full measure
267 measure NOUN measure of
268 of ADP of devotion
269 devotion NOUN devotion
270 PUNCT -- that
271 that ADP that we
272 we PRON -PRON- here
273 here ADV here highly
274 highly ADV highly resolve
275 resolve VERB resolve that
276 that ADP that these
277 these DET these dead
278 dead ADJ dead shall
279 shall VERB shall not
280 not ADV not have
281 have VERB have died
282 died VERB die

283
SPACE
in

284 in ADP in vain
285 vain ADJ vain
286 PUNCT -- that
287 that ADP that this
288 this DET this nation
289 nation NOUN nation ,
290 , PUNCT , under
291 under ADP under God
292 God PROPN god ,
293 , PUNCT , shall
294 shall VERB shall have
295 have VERB have a
296 a DET a new
297 new ADJ new birth
298 birth NOUN birth of
299 of ADP of freedom
300 freedom NOUN freedom
301 PUNCT -- and
302 and CCONJ and that
303 that ADP that government
304 government NOUN government of
305 of ADP of the
306 the DET the

307

SPACE

people

308 people NOUN people ,
309 , PUNCT , by
310 by ADP by the
311 the DET the people
312 people NOUN people ,
313 , PUNCT , for
314 for ADP for the
315 the DET the people
316 people NOUN people ,
317 , PUNCT , shall
318 shall VERB shall not
319 not ADV not perish
320 perish VERB perish from
321 from ADP from the
322 the DET the earth
323 earth NOUN earth .

IndexError

Traceback (most recent call last)

```
<ipython-input-15-e4d0d8919094> in <module>()
    2 for sentence in processed_text.sents:
    3     for token in sentence:
----> 4         print(n, token, token.pos_, token.lemma_, token.nbor())
    5         n+=1
```

token.pyx in spacy.tokens.token.Token.nbor()

IndexError: [E042] Error accessing doc[324].nbor(1), for doc of length 325.

In []: #ENTITIES

```
In [16]: for entity in processed_text.ents:
         print(entity, entity.label_)
```

Four CARDINAL
seven years ago DATE

GPE
Liberty NORP

GPE

GPE

GPE

GPE

GPE

GPE

GPE

GPE

GPE

GPE

GPE

GPE

GPE

```
In [ ]: #DEPENDENCIES
```

```
In [17]: def pr_tree(word, level):
          if word.is_punct:
              return
          for child in word.lefts:
              pr_tree(child, level+1)
          print('\t'* level + word.text + ' - ' + word.dep_)
          for child in word.rights:
              pr_tree(child, level+1)

In [18]: for sentence in processed_text.sents:
          pr_tree(sentence.root, 0)
          print('-----')
```

```
Four - nummod
score - ROOT
and - cc
      seven - nummod
      years - npadvmod
ago - conj
      our - poss
      fathers - nsubj
brought - relcl
      forth - advmod
      on - prep
            this - det
            continent - pobj
                  a - det
                  new - amod
            nation - appos
conceived - acl
      in - prep
            Liberty - pobj
      and - cc
      dedicated - conj
            to - prep
                  the - det
                  proposition - pobj
      that - mark
            all - det
      men - nsubjpass
      are - auxpass
created - relcl
```

```

equal - oprd
-----
Now - advmod
we - nsubj
are - ROOT

-
engaged - acomp
in - prep
a - det
great - amod
civil - amod
war - pobj
testing - advcl
whether - mark
that - det
nation - nsubj
or - cc
any - det
nation - conj
so - advmod
conceived - ccomp
and - cc
dedicated - conj
can - aux
long - advmod
endure - conj
-----
We - nsubjpass
are - auxpass
met - ROOT
on - prep
a - det
great - amod
battle - compound
field - pobj
of - prep
that - det
war - pobj
-----
We - nsubj
have - aux
come - ROOT
to - aux
dedicate - advcl
a - det
portion - dobj

```

-

of - prep

that - det

field - pobj

as - prep

a - det

final - amod

resting - compound

place - pobj

for - prep

those - pobj

who - nsubj

here - advmod

gave - relcl

their - poss

lives - dobj

that - mark

that - det

nation - nsubj

might - aux

-

live - relcl

It - nsubj

is - ROOT

altogether - advmod

fitting - acomp

and - cc

proper - conj

that - mark

we - nsubj

should - aux

do - ccomp

this - dobj

But - cc

in - prep

a - det

larger - amod

sense - pobj

we - nsubj

can - aux

not - neg

-

dedicate - ROOT

```

-----
    we - nsubj
    can - aux
    not - neg
consecrate - ROOT
-----

    we - nsubj
    can - aux
    not - neg
hallow - ROOT
    this - det
    ground - npadvmod
-----

    The - det
    brave - amod
men - nsubj
    living - acl
        and - cc
        dead - conj
        who - nsubj
    struggled - relcl
        here - advmod

have - aux
consecrated - ROOT
    it - dobj
        far - advmod
    above - prep
        our - poss
        poor - amod
    power - pobj
        to - aux
        add - acl
            or - cc
            detract - conj
-----

    The - det
    world - nsubj
    will - aux

-
    little - amod
note - ROOT
    nor - cc
        long - advmod
    remember - conj
        what - dobj
        we - nsubj
    say - ccomp

```



```

                                here - advmod
but - cc
    it - nsubj
    can - aux
    never - neg
forget - conj
    what - dobj
    they - nsubj
    did - ccomp
    here - advmod
-----
    It - nsubj
is - ROOT

-
    for - prep
        us - pobj
        the - det
    living - attr
    rather - advmod
        to - aux
        be - auxpass
    dedicated - xcomp
        here - advmod
        to - prep
            the - det
            unfinished - amod
        work - pobj
            which - dobj
            they - nsubj
                who - nsubj
                fought - relcl
                here - advmod
            have - relcl

-
                                thus - advmod
                                far - advmod
                                so - advmod
                                nobly - advmod
                                advanced - ccomp
-----
    It - nsubj
is - ROOT
    rather - advmod
        for - mark
        us - nsubj
        to - aux

```

be - advcl
 here - advmod
 dedicated - acomp
 to - prep
 the - det
 great - amod
 task - pobj
 remaining - acl

-

 before - prep
 us - pobj
 that - mark
 from - prep
 these - det
 honored - amod
 dead - pobj
 we - nsubj
 take - ccomp
 increased - amod
 devotion - dobj
 to - prep
 that - det
 cause - pobj
 for - prep
 which - pobj
 they - nsubj
 gave - relcl

-

 the - det
 last - amod
 full - amod
 measure - dobj
 of - prep
 devotion - pobj
 that - mark
 we - nsubj
 here - advmod
 highly - advmod
 resolve - ccomp
 that - mark
 these - det
 dead - nsubj
 shall - aux
 not - neg
 have - aux
 died - ccomp

-

```
in - prep
    vain - pobj
that - mark
    this - det
nation - nsubj
under - prep
    God - pobj
shall - aux
have - ccomp
    a - det
    new - amod
birth - dobj
    of - prep
        freedom - pobj
and - cc
    that - det
    government - nsubj
    of - prep
        the - det
```

-

```
people - pobj
by - prep
    the - det
    people - pobj
for - prep
    the - det
    people - pobj
shall - aux
not - neg
perish - conj
    from - prep
        the - det
        earth - pobj
```

```
-----
In [19]: for sent in processed_text.sents:
        for token in sent:
            print(token, token.vector)
```

```
Four [ 2.80292940e+00  4.23991919e+00  1.93492532e+00  4.09657478e+00
-9.51246202e-01  3.15005302e-01  5.69854975e-01  1.13146579e+00
-2.43011093e+00  1.32140565e+00  8.28908086e-01  2.82986426e+00
-9.93501067e-01 -5.26169300e-01  2.56603241e+00  1.54322654e-01
 1.09156048e+00 -1.27266884e+00  2.74937391e-01  1.03576636e+00
```

-4.68768775e-01	-1.74008727e+00	-2.89800835e+00	7.88728714e-01
-2.54611373e+00	2.39173472e-01	-3.43833232e+00	1.48244309e+00
2.41335464e+00	-3.79679620e-01	-2.88016260e-01	2.64367485e+00
2.51907778e+00	1.79027629e+00	1.93540871e+00	2.88795114e-01
2.51613235e+00	-2.23766994e+00	-4.22037780e-01	-3.15693307e+00
-2.23333406e+00	7.53735423e-01	8.40724170e-01	-6.47841811e-01
1.24521840e+00	8.77631068e-01	2.55148530e-01	7.59185314e-01
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 5.91381550e-01 -9.65589464e-01 4.35621738e+00 -9.27634239e-02
 -2.32731819e+00 2.60327888e+00 2.74767804e+00 -4.17071342e+00
 -2.12389588e+00 1.34194946e+00 6.24197960e-01 -1.33470583e+00
 -4.22626734e-02 -2.42453480e+00 9.90570009e-01 1.57864571e+00
 1.58020449e+00 -1.79350364e+00 -1.57392216e+00 -3.14655352e+00
 -5.24195790e-01 2.22831219e-03 -9.30564642e-01 -2.63290465e-01
 5.45170879e+00 4.28817797e+00 2.29648185e+00 6.94519639e-01
 2.64689356e-01 5.33044279e-01 -8.92924845e-01 1.15087450e-01

-2.00073957e+00	7.00190008e-01	6.18243992e-01	-7.43577123e-01
1.30445731e+00	2.76960206e+00	-1.05345941e+00	1.16326928e+00
3.09979033e+00	3.16922712e+00	-1.46827340e-01	-7.54851460e-01
-1.73005033e+00	-2.01656008e+00	6.42240942e-01	-1.12894857e+00
-1.19041741e+00	-9.55175519e-01	2.52909780e+00	2.53524041e+00
-2.39190555e+00	-3.41746998e+00	-1.23516083e+00	-2.88440615e-01
-1.34850955e+00	-2.90285206e+00	4.79646891e-01	-3.02358556e+00
2.33544469e+00	1.00481200e+00	-2.65663648e+00	-1.82245922e+00
-1.22928131e+00	-1.31888342e+00	4.41381550e+00	1.88268888e+00
1.04331219e+00	9.82973337e-01	-3.19203496e-01	4.63127553e-01
-7.55090043e-02	2.50146031e-01	1.40893281e-01	3.02521378e-01
1.50088072e-02	1.01360589e-01	-1.36864811e-01	3.14033031e-02
4.70070720e-01	-2.52071545e-02	5.00110388e-02	-1.07181773e-01
4.38141972e-01	1.42359138e-01	-6.17543638e-01	5.70472121e-01
7.56138116e-02	8.56442377e-02	6.76527992e-02	-1.56272456e-01
2.03498334e-01	-2.85213590e-01	2.08565071e-01	-1.06209964e-02
-9.21380669e-02	6.70114905e-02	-3.25975329e-01	-1.97072223e-01
-4.29071873e-01	-4.12161946e-02	-9.66572613e-02	-4.16927189e-02
2.63318643e-02	8.75791535e-02	1.19904578e-02	-1.94351390e-01
-1.49130821e-01	1.97389930e-01	-1.36086509e-01	-6.14098310e-01
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1.64559484e-03	-2.24807769e-01	6.72253519e-02	-2.15977162e-01
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9.69309062e-02	-1.91612840e-02	2.22814500e-01	-1.20216385e-01
-7.65343755e-03	-2.60105193e-01	-4.72403705e-01	2.07156405e-01
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4.90009397e-01	-6.95265681e-02	-1.83982193e-01	2.58752048e-01
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-2.52038270e-01	-1.73454031e-01	-3.40614766e-02	-1.25428274e-01
-7.64038861e-02	-1.22252196e-01	9.06886160e-01	-2.53542811e-01
-2.89821148e-01	-8.46722946e-02	3.40259492e-01	-3.26555401e-01
-1.10916764e-01	-1.96642891e-01	-1.07849933e-01	2.08935499e+00
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-1.84149742e-01	-2.17478454e-01	-8.09766352e-02	-4.30873513e-01
-2.42409021e-01	-3.75368178e-01	1.47896707e-01	5.51210940e-01
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-3.45733702e-01 -1.46254659e-01  1.01879597e-01  2.85993695e-01
 7.53690824e-02 -2.75972843e-01  5.29483110e-02 -1.12868160e-01]

```

```
In [ ]: #DEPENDENCY RELATIONSHIP
```

```
In [37]: for sentence in processed_text.sents:
          pr_tree(entity.root.head, 0)
          print('-----')
```

```
the - det
```

```
-
```

```
the - det
```

```
-
```

```
the - det
```

```
-
```

```
the - det
```

```
-
```

the - det

-

the - det

-

the - det

-

the - det

-

the - det

-

the - det

-

the - det

-

the - det

-

the - det

-

In []: #NOUN CHUNKS

```
In [38]: for noun_chunk in processed_text.noun_chunks:  
         print(noun_chunk)
```

```
Four score  
our fathers  
this continent  
a new nation
```


Liberty
the proposition
all men
we
a great civil war
that nation
any nation
We
a great battle-field
that war
We
a portion
that field
a final resting place
who
their lives
that nation
It
we
a larger sense
we
we
we
The brave men
who
it
our poor power
The world
what
we
it
what
they
It
us
the living
the unfinished work
they
who
It
us
the great task
us
we
increased devotion
that cause
they
the last full measure

devotion
we
this nation
God
a new birth
freedom
that government
the
people
the people
the people
the earth