Walker — Problem Set 14

Section 35

```
In[26]:= Interpreter["Location"]["Eiffel Tower"]
Out[26]=
       GeoPosition[{48.8583, 2.29444}]
       Interpreter("University")["U of T"]
 In[27]:=
Out[27]=
        University of Toronto
       Interpreter["Chemical"][{"C2H4", "C2H6", "C3H8"}]
Out[28]=
         ethylene, ethane, propane
       Interpreter["Date"][""20140108""]
 In[29]:=
Out[29]=
        Wed 8 Jan 2014
 In[30]:= Cases[Interpreter["University"][
          StringJoin["U of ", #] & /@ ToUpperCase[Alphabet[]]], Entity]
Out[30]=
          University of Birjand , University of California-Berkeley , The University of Edinburgh ,
          University of Georgia, University of Houston, University of Illinois at Urbana-Champaign,
          University of Lethbridge , University of Michigan-Ann Arbor , University of Phoenix-Online Campus ,
          University of Regina , University of Saskatchewan , University of Toronto
 In[31]:= Cases Interpreter["Movie"] CommonName /@

    capital city

    ...

    ✓

    , _Entity

            all US states with District of Columbia ADMINISTRATIVE DIVISIONS
Out[31]=
                    [Honolulu], [Topeka], [Annapolis], [Lincoln], [Santa Fe], [Expedition: Bismarck],
          Phoenix ,
                      Providence, Nashville, Olympia, Madison, Cheyenne
       Cases[Interpreter["City"][StringJoin /@ Permutations[{"l", "i", "m", "a"}]], _Entity]
 In[32]:=
Out[32]=
                 Lamai, Lami, (Ilam), (Balm), (Mali), (Milah), (Mali), (Alim), (Amli)
```

```
In[33]:= WordCloud[TextCases[WikipediaData["gunpowder"], "Country"]]
Out[33]=
```



```
in[34]:= TextCases["She sells seashells by the sea shore.", "Noun"]
Out[34]=
      {seashells, sea, shore}
In[35]:= Length[TextCases[StringTake[WikipediaData["computers"], 1000], #]] & /@
        {"Noun", "Verb", "Adjective"}
Out[35]=
      {54, 23, 20}
```

In[36]:= TextStructure[TextSentences[WikipediaData["computers"]][[1]]]

Out[36]=

Α	computer	is	a	machine	that	can	be	programmed	to	automa
Determiner	Noun	Verb	Determiner	Noun	Wh-Determiner	Verb	Verb	Verb	Preposition	A
Noun Phrase			Noun Phrase		Wh-Noun Phrase					Adve

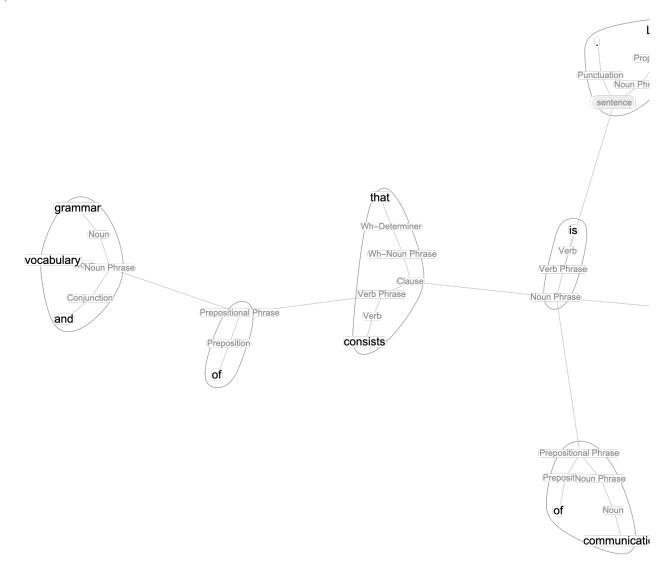
In[37]:= Keys[TakeLargest[

Counts[TextCases[ExampleData[{"Text", "AliceInWonderland"}], "Noun"]], 10]]

Out[37]=

{Rabbit, door, voice, time, way, Mouse, moment, thing, head, table}

Out[38]=



Section 36

```
In[41]:= CloudPublish[Delayed[Style[RandomInteger[1000], 100]]]
Out[41]=
      CloudObject[https://www.wolframcloud.com/obj/2859f68f-5752-4eb6-b731-2fd46e264167]
      CloudPublish[FormFunction[{"n" → "Number"}, #n^#n &]]
In[42]:=
Out[42]=
      CloudObject[https://www.wolframcloud.com/obj/21e06ecb-ac76-438f-b57a-a8ee73ffa086]
In[43]:= CloudPublish[FormFunction[{"n" → "Number", "n" → "Number"}, #n^#p &]]
Out[43]=
      CloudObject[https://www.wolframcloud.com/obj/95ff140c-f08e-4fbc-89b5-d97f3e0ac2e3]
In[44]:= CloudPublish[FormFunction[{"Topic" → "String"}, WordCloud[WikipediaData[#Topic]] &]]
Out[44]=
      CloudObject[https://www.wolframcloud.com/obj/d2484caa-4bb9-4bb2-9d3b-301f1327c974]
In[45]:= CloudPublish[FormPage[{"string" → "String"}, Style[StringReverse[#string], 50] &]]
Out[45]=
      CloudObject https://www.wolframcloud.com/obj/e0ae6743-1ba6-4d15-8aef-db6509d37e4f
In[46]:= CloudPublish[
       FormPage[{"n" → "Number"}, Graphics[Style[RegularPolygon[#n], RandomColor[]]] &]]
Out[46]=
      CloudObject[https://www.wolframcloud.com/obj/ac45c156-0c27-4305-b54d-2f1819182ac3]
In[47]:= CloudPublish[FormPage[{"location" → "Location", "n" → "Number"},
        GeoListPlot[GeoNearest["Volcano", #location, #n]] &]]
Out[47]=
      CloudObject|https://www.wolframcloud.com/obj/63fe5f48-cb8d-4a13-8693-80a4242517c4
```