Walker — Problem Set 14

Section 35

In[23]:=
```
Interpreter["Location"]["Eiffel Tower"]
```
Out[23]=
```
GeoPosition[{48.8583, 2.29444}]
```

In[24]:=
```
Interpreter["University"]["U of T"]
```
Out[24]=
University of Toronto

In[25]:=
```
Interpreter["Chemical"][{"C2H4", "C2H6", "C3H8"}]
```
Out[25]=
{ethylene, ethane, propane}

In[26]:=
```
Interpreter["Date"]["“20140108”"]
```
Out[26]=
Wed 8 Jan 2014

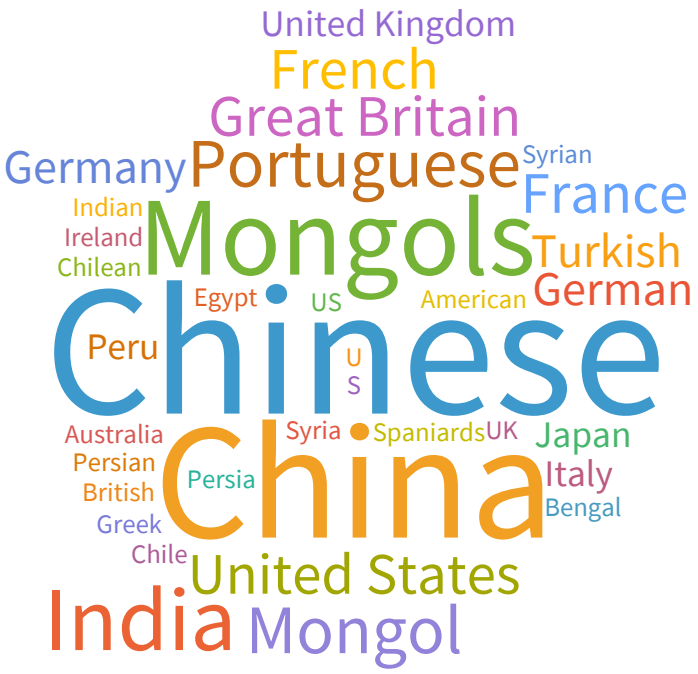
In[27]:=
```
Cases[Interpreter["University"][
  StringJoin["U of ", #] & /@ ToUpperCase[Alphabet[]]], _Entity]
```
Out[27]=
{University of Birjand, University of California-Berkeley, The University of Edinburgh, University of Georgia, University of Houston, University of Illinois at Urbana-Champaign, University of Lethbridge, University of Michigan-Ann Arbor, University of Phoenix-Online Campus, University of Regina, University of Saskatchewan, University of Toronto}

In[28]:=
```
Cases[Interpreter["Movie"][CommonName /@
```
all US states with District of Columbia ADMINISTRATIVE DIVISIONS [capital city]]
```
, _Entity]
```
Out[28]=
{Phoenix, Honolulu, Topeka, Annapolis, Lincoln, Santa Fe, Expedition: Bismarck, Columbus, Providence, Nashville, Olympia, Madison, Cheyenne}

In[29]:=
```
Cases[Interpreter["City"][StringJoin /@ Permutations[{"l", "i", "m", "a"}]], _Entity]
```
Out[29]=
{Lima, Lamai, Lami, Ilam, Balm, Mali, Milah, Mali, Alim, Amli}

In[30]:=
```
WordCloud[TextCases[WikipediaData["gunpowder"], "Country"]]
```

Out[30]=



In[31]:=
```
TextCases["She sells seashells by the sea shore.", "Noun"]
```

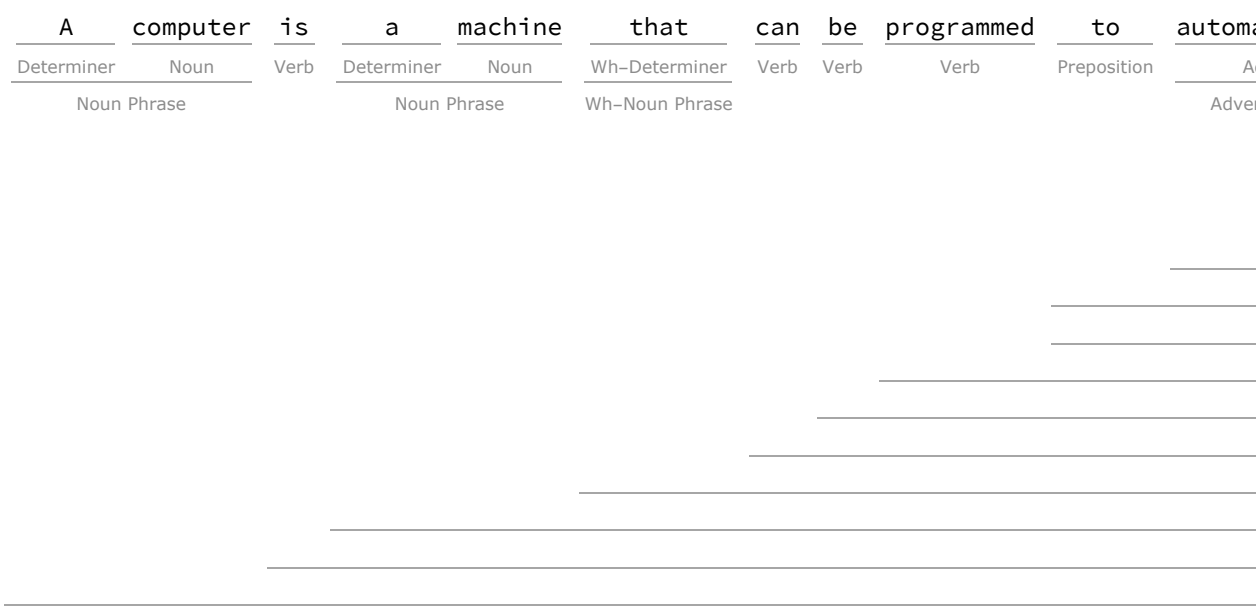
Out[31]=
```
{seashells, sea, shore}
```

In[32]:=
```
Length[TextCases[StringTake[WikipediaData["computers"], 1000], #]] & /@
 {"Noun", "Verb", "Adjective"}
```

Out[32]=
```
{54, 23, 20}
```

In[33]:=
```
TextStructure[TextSentences[WikipediaData["computers"]][[1]]]
```

Out[33]=



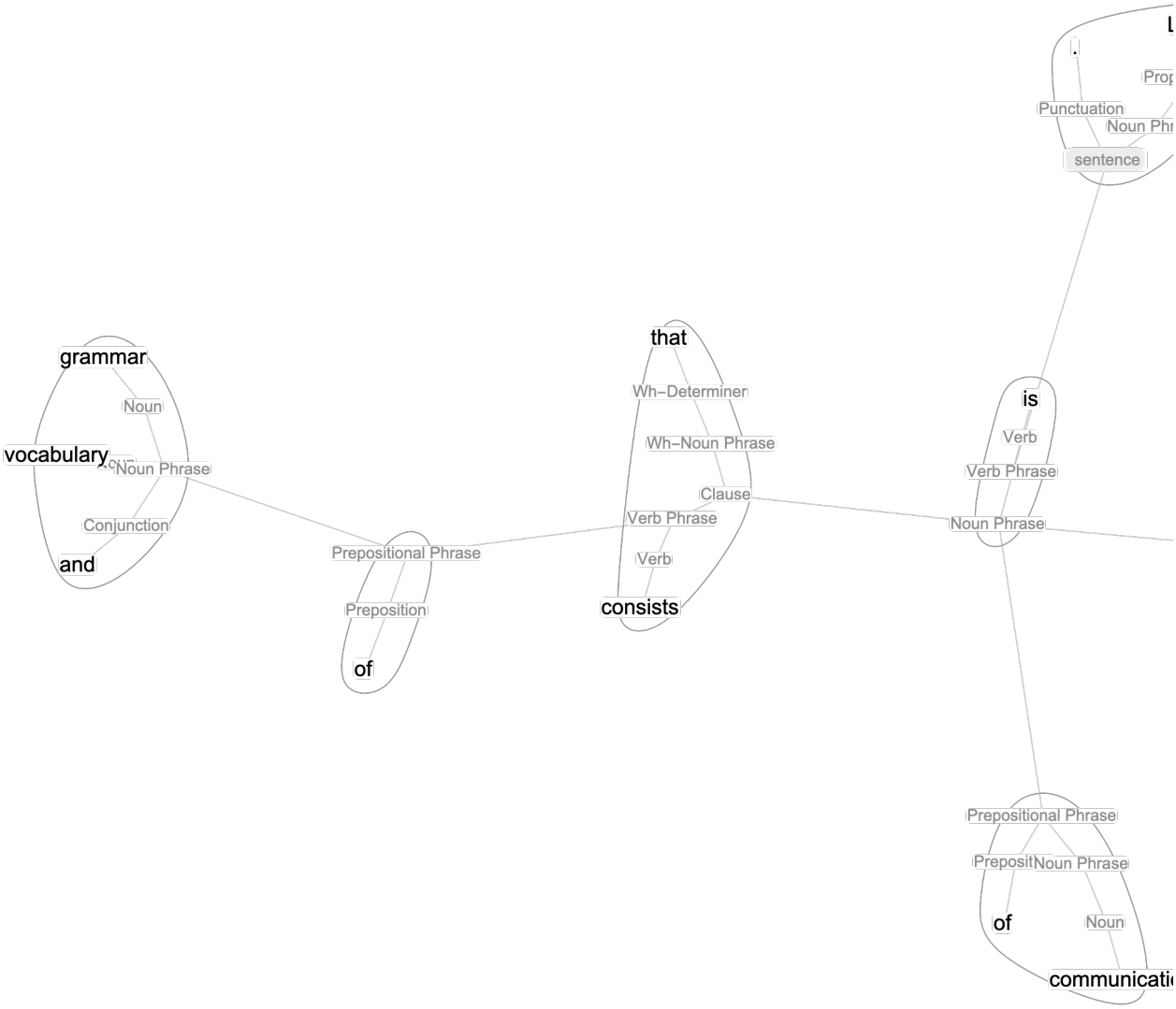
In[34]:=
```
Keys[TakeLargest[
  Counts[TextCases[ExampleData[{"Text", "AliceInWonderland"}], "Noun"]], 10]]
```

Out[34]=

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

In[35]:=
```
CommunityGraphPlot[First[TextStructure[
    First[TextSentences[WikipediaData["language"]]], "ConstituentGraphs"]]]
```

Out[35]=



In[36]:=
```
Length[WordList[#]] & /@ {"Noun", "Verb", "Adjective", "Adverb"}
```

Out[36]=
```
{24 493, 6503, 11 392, 3120}
```

In[37]:=
```
Flatten[Table[WordTranslation[IntegerName[n], "French"], {n, 2, 10}]]
```

Out[37]=
```
{deux, trois, quatre, cinq, six, sept, huit, neuf, dix}
```

Section 36

In[38]:=
```
CloudPublish[Delayed[Style[RandomInteger[1000], 100]]]
```

Out[38]=
```
CloudObject[https://www.wolframcloud.com/obj/c2e563f3-f02d-4576-82c9-0a86db7cbecc]
```

In[39]:=
```
CloudPublish[FormFunction[{"n" → "Number"}, #n^#n &]]
```

Out[39]=
```
CloudObject[https://www.wolframcloud.com/obj/9e5406e5-23d3-4938-bc2d-9bf649964bb7]
```

In[40]:=
```
CloudPublish[FormFunction[{"n" → "Number", "n" → "Number"}, #n^#p &]]
```

Out[40]=
```
CloudObject[https://www.wolframcloud.com/obj/404bc3fb-46b5-4219-983e-5042f652dc0e]
```

In[41]:=
```
CloudPublish[FormFunction[{"Topic" → "String"}, WordCloud[WikipediaData[#Topic]] &]]
```

Out[41]=
```
CloudObject[https://www.wolframcloud.com/obj/5ba286b6-f52e-4131-a70d-ebc6c258ee1a]
```

In[42]:=
```
CloudPublish[FormPage[{"string" → "String"}, Style[StringReverse[#string], 50] &]]
```

Out[42]=
```
CloudObject[https://www.wolframcloud.com/obj/858549a0-97ed-423a-b132-7ce037bb82b9]
```

In[43]:=
```
CloudPublish[
 FormPage[{"n" → "Number"}, Graphics[Style[RegularPolygon[#n], RandomColor[]]] &]]
```

Out[43]=
```
CloudObject[https://www.wolframcloud.com/obj/ac646f15-43e7-43ee-b1bf-ccfbb73eafed]
```

In[44]:=
```
CloudPublish[FormPage[{"location" → "Location", "n" → "Number"},
  GeoListPlot[GeoNearest["Volcano", #location, #n]] &]]
```

Out[44]=
```
CloudObject[https://www.wolframcloud.com/obj/eb197c6c-05b6-4f56-a656-9e96fb064c94]
```