Tahm — PS 14

Chapter 35

In[48]:=
```
Interpreter["Location"]["Eiffel Tower"]
```

Out[48]=
```
GeoPosition[{48.8583, 2.29444}]
```

In[49]:=
```
Interpreter["University"]["U of T"]
```

Out[49]=
University of Toronto

In[50]:=
```
Interpreter["Chemical"][{"C2H4", "C2H6", "C3H8"}]
```

Out[50]=
{ethylene, ethane, propane}

In[51]:=
```
Interpreter["Date"]["20140108"]
```

Out[51]=
Wed 8 Jan 2014

In[52]:=
```
Cases[Interpreter["University"][
  StringJoin["U of ", #] & /@ ToUpperCase[Alphabet[]]], _Entity]
```

Out[52]=
{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[53]:=
```
Cases[Interpreter["Movie"][CommonName /@ United States state capitals CITIES], _Entity]
```

CommonName: City is not an entity.

CommonName: UnitedStatesCapitals is not an entity.

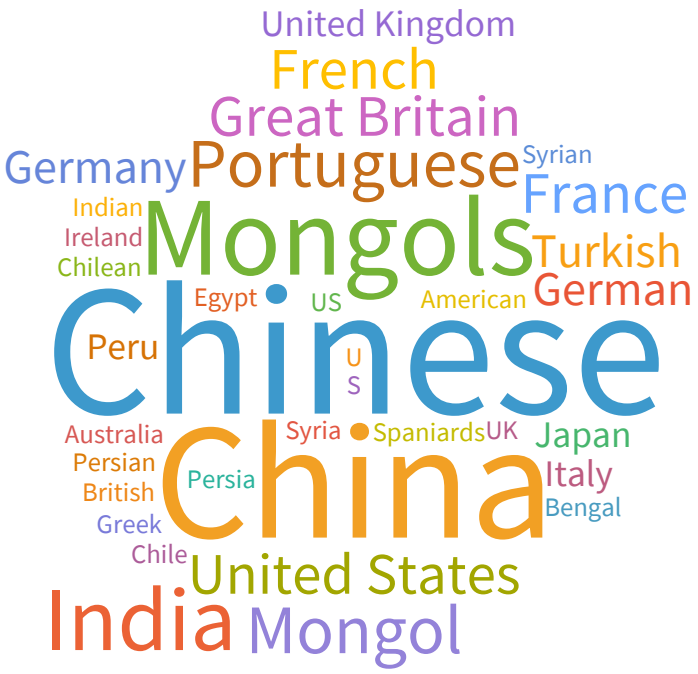
Out[53]=
```
{}
```

In[54]:=
```
Cases[Interpreter["City"][StringJoin /@ Permutations[{"l", "i", "m", "a"}]], _Entity]
```

Out[54]=
{Lima, Lamai, Lami, Ilam, Balm, Mali, Milah, Mali, Alim, Amli}

In[55]:=
```
WordCloud[TextCases[WikipediaData["gunpowder"], "Country"]]
```

Out[55]=



In[56]:=

In[57]:=

In[58]:=
```
TextCases["She sells seashells by the sea shore", "Noun"]
```

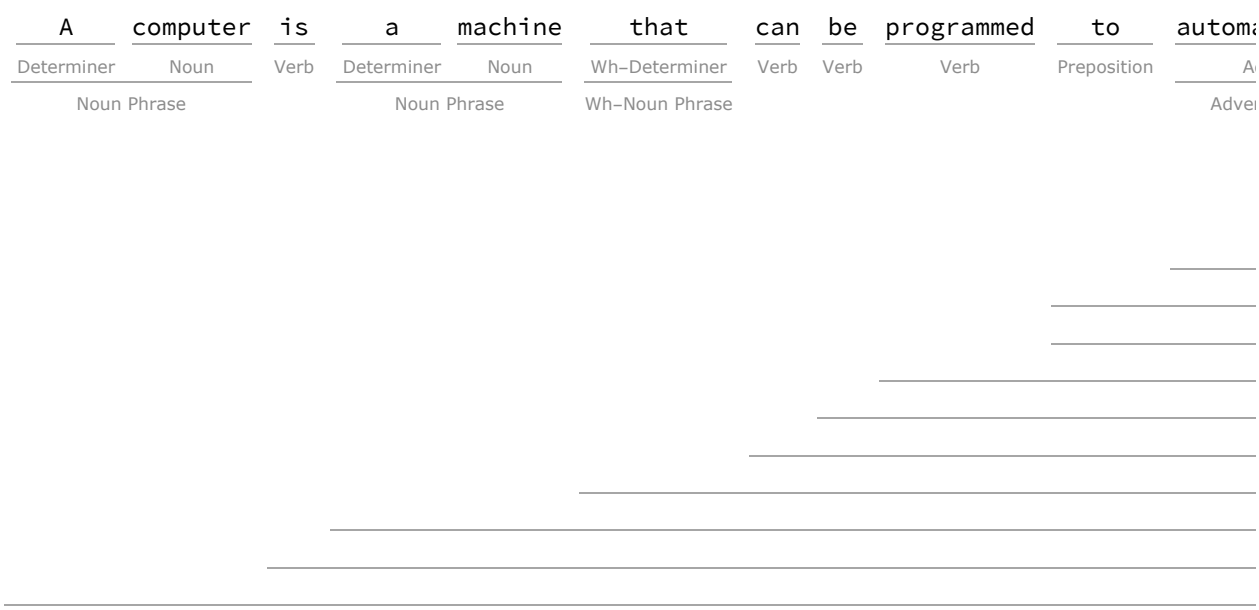
Out[58]=
```
{seashells, sea, shore}
```

In[59]:=
```
Length[TextCases[StringTake[WikipediaData["computers"], 1000], #]] & /@
 {"Noun", "Verb", "Adjective"}
```

Out[59]=
```
{54, 23, 20}
```

In[60]:=
```
TextStructure[First[TextSentences[WikipediaData["computers"]]]]
```

Out[60]=



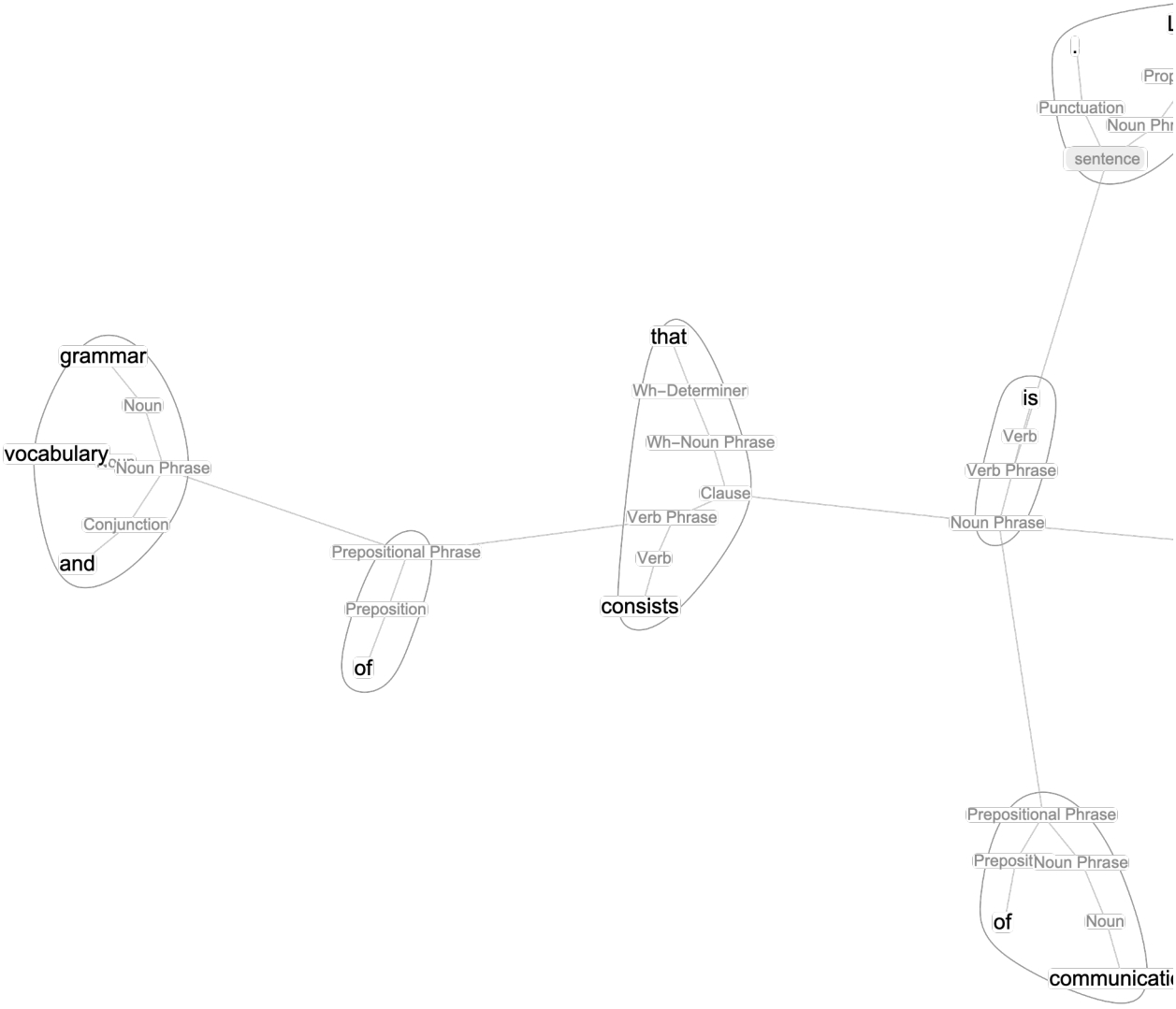
In[61]:=
```
TakeLargest[
 Counts[TextCases[ExampleData[{"Text", "AliceInWonderland"}], "Noun"]], 10]
```

Out[61]=

```
⟨| Rabbit → 30, door → 23, voice → 22, time → 21, way → 20,
 Mouse → 20, moment → 18, thing → 17, head → 16, table → 14 |⟩
```

In[62]:=
```
CommunityGraphPlot[
 First[TextStructure[First[TextSentences[WikipediaData["language"]]],
   "ConstituentGraphs"]], ChartLabels → Automatic]
```

Out[62]=



In[63]:=
```
Length[TextCases[WordList[], #]] & /@ {"Noun", "Verb", "Adjective", "Adverb"}
```

Out[63]=
```
{39 176, 39 176, 39 176, 39 176}
```

In[64]:=

In[65]:=
```
Flatten[Table[WordTranslation[IntegerName[x], "French"], {x, 2, 10}]]
```

Out[65]=
```
{deux, trois, quatre, cinq, six, sept, huit, neuf, dix}
```

Chapter 36

In[66]:=
```
CloudPublish[Style[RandomInteger[1000], 100]]
```
Out[66]=
```
CloudObject[https://www.wolframcloud.com/obj/a79816d5-8a25-4682-9764-5399cf8f7fea]
```

In[67]:=
```
SystemOpen[CloudObject[
   "https://www.wolframcloud.com/obj/fbc2dac1-7c4b-4178-bea6-15e0e2a22abe"][[1]]]
```

In[68]:=
```
CloudPublish[FormFunction[{"x" → "Number"}, #x ^ #x &]]
```
Out[68]=
```
CloudObject[https://www.wolframcloud.com/obj/6ac6f569-fa03-4966-a040-d1a5a2d16269]
```

In[69]:=
```
CloudPublish[FormFunction[{"x" → "Number", "y" → "Number"}, #x * #y &]]
```
Out[69]=
```
CloudObject[https://www.wolframcloud.com/obj/b6102ecd-4edc-48ec-b760-974b78c8a91a]
```

In[70]:=
```
CloudPublish[FormFunction[{"topic" → "String"}, WordCloud[WikipediaData[#topic]] &]]
```
Out[70]=
```
CloudObject[https://www.wolframcloud.com/obj/845bd237-34b9-44ba-bc80-32d41485b48b]
```

In[71]:=
```
CloudPublish[FormPage[{"String" → "String"}, Style[StringReverse[#String], 50] &]]
```
Out[71]=
```
CloudObject[https://www.wolframcloud.com/obj/96717d81-cb6f-4728-8047-5e1cfddee9ee]
```

In[72]:=
```
CloudPublish[
 FormPage[{"N" → "Integer"}, Graphics[Style[RegularPolygon[#N], RandomColor[]]] &]]
```
Out[72]=
```
CloudObject[https://www.wolframcloud.com/obj/c859808f-5c2c-4239-af61-0844773c9ff1]
```

In[73]:=
```
CloudPublish[FormPage[{"Location" → "Location", "number" → "Integer"},
  GeoListPlot[GeoNearest["Volcano", #Location, #number]] &]]
```
Out[73]=
```
CloudObject[https://www.wolframcloud.com/obj/6e772891-fa09-41bc-bc0e-43064b361e48]
```

In[74]:=

In[75]:=