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.

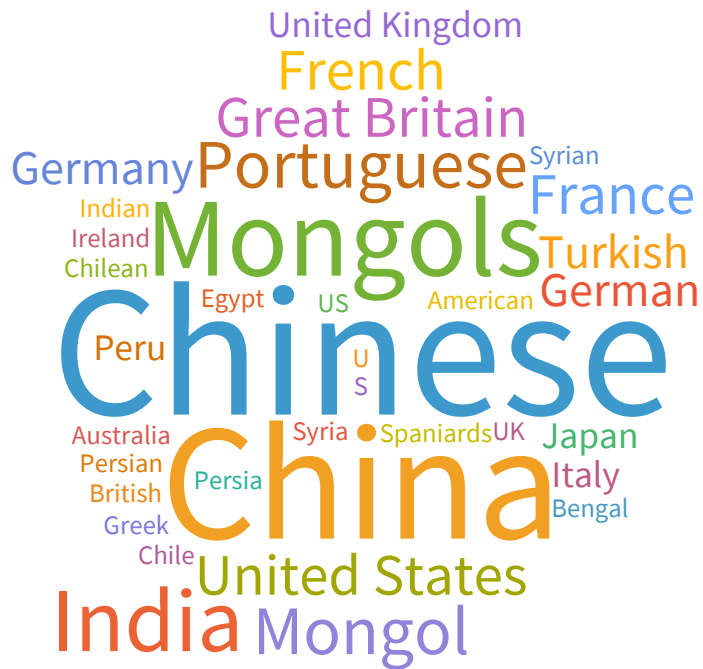⋯ CommonName: UnitedStatesCapitals is not an entity.   Your code for 35. 6 didn't work when I ran it.

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]=

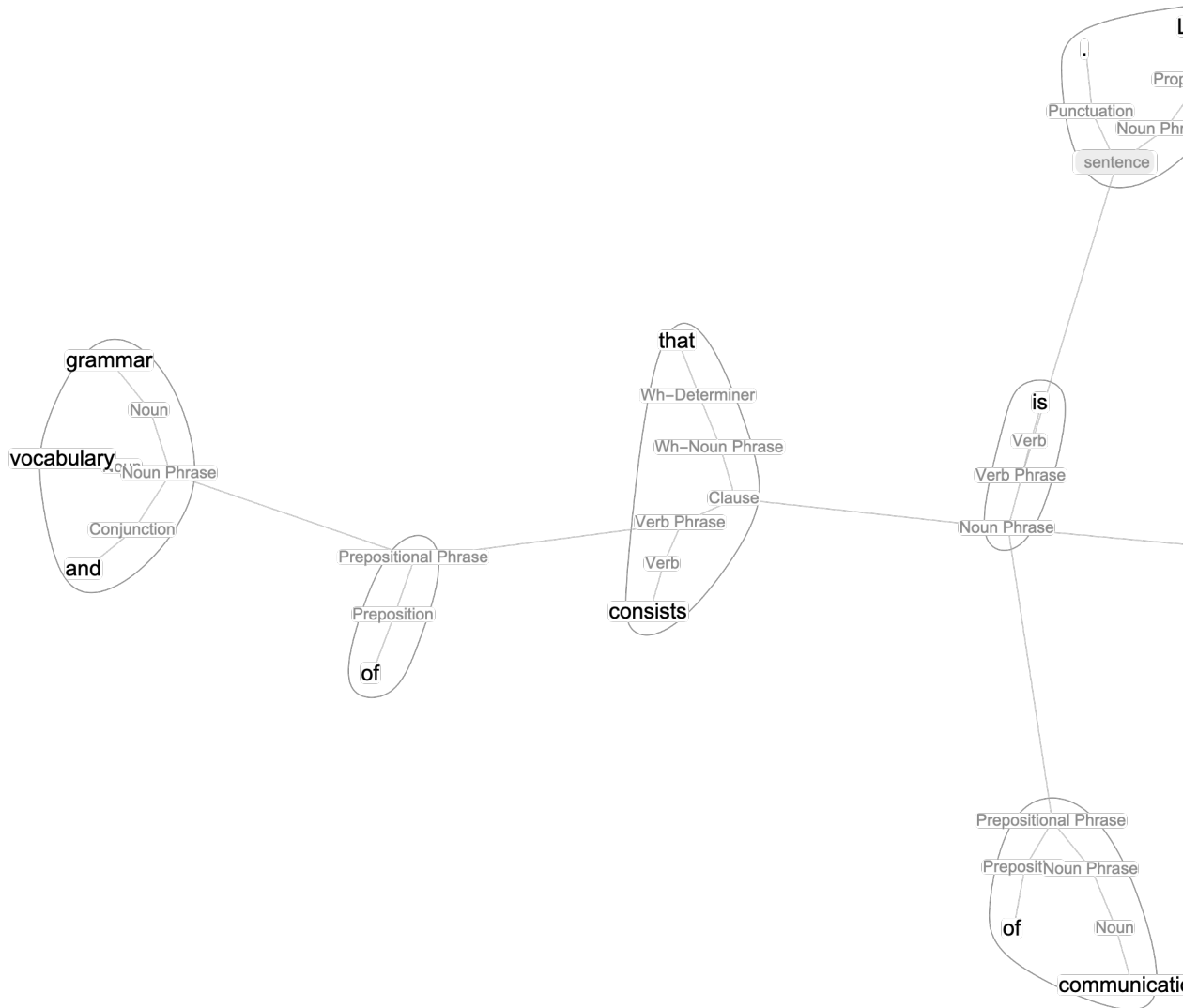| A	computer	is	a	machine	that	can	be	programmed	to	autom...
Determiner	Noun	Verb	Determiner	Noun	Wh–Determiner	Verb	Verb	Verb	Preposition	A...
Noun Phrase			Noun Phrase		Wh–Noun Phrase					Adve...

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]=

grammar

Noun

vocabulary

Noun Phrase

Conjunction

and

Prepositional Phrase

Preposition

of

that

Wh–Determiner

Wh–Noun Phrase

Clause

Verb Phrase

Verb

consists

is

Verb

Verb Phrase

Noun Phrase

sentence

Punctuation

Noun Phr

Prop

Prepositional Phrase

Preposit Noun Phrase

of

Noun

communicati

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

Out[63]=

{39 176, 39 176, 39 176, 39 176}

Oh-oh. Not working.

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]:=