Jeremy — EIWL Sections 35, 36

In[104]:=
```
Interpreter["Location"]["Eiffel Tower"]
```

Out[104]=
```
GeoPosition[{48.8583, 2.29444}]
```

In[105]:=
```
Interpreter["University"]["U of T"]
```

Out[105]=

University of Toronto

In[106]:=
```
Interpreter["Chemical"][#] & /@ {"C2H4", "C2H6", "C3H8"}
```

Out[106]=

{ ethylene , ethane , propane }

In[107]:=
```
Interpreter["Date"]["20140108"]
```

Out[107]=

Wed 8 Jan 2014

In[108]:=
```
Cases[Interpreter["University"][
   StringJoin["U of ", #] & /@ ToUpperCase[Alphabet[]]], _Entity]
```

Out[108]=

{ 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[109]:=
```
Cases[Interpreter["Movie"][CommonName[#] & /@
   all US states with District of Columbia ADMINISTRATIVE DIVISIONS [ capital city ] ⋯ ✓ ], _Entity]
```

Out[109]=

{ Phoenix , Honolulu , Topeka , Annapolis , Lincoln , Santa Fe , Expedition: Bismarck ,
Columbus , Providence , Nashville , Olympia , Madison , Cheyenne }

In[110]:=
```
Cases[Interpreter["City"][
  StringJoin[#] & /@ Permutations[{"a", "i", "m", "l"}, 4]], _Entity]
```
Out[110]=
{ Los Angeles , Li , Ami , Ali , Ila , Mal , Laï , Lam , Lia , Amli ,
  Alim , Balm , Ilam , Mali , Milah , Mali , Lami , Lima , Lamai }

In[111]:=
```
WordCloud[
 Cases[Interpreter["Country"][TextWords[WikipediaData["gunpowder"]]], _Entity]]
```
Out[111]=

Your code produces an empty WordCloud?

Try:

WordCloud[TextCases[WikipediaData["gunpowder"], "Country"]]

In[112]:=
```
TextCases["She sells seashells by the sea shore", "Noun"]
```
Out[112]=
{seashells, sea, shore}

In[113]:=
```
Length[TextCases[StringTake[WikipediaData["computers"], 1000], #]] & /@
 {"Noun", "Verb", "Adjective"}
```
Out[113]=
{54, 23, 20}

In[114]:=
```
TextStructure[TextSentences[WikipediaData["computers"]][[1]]]
```

Out[114]=

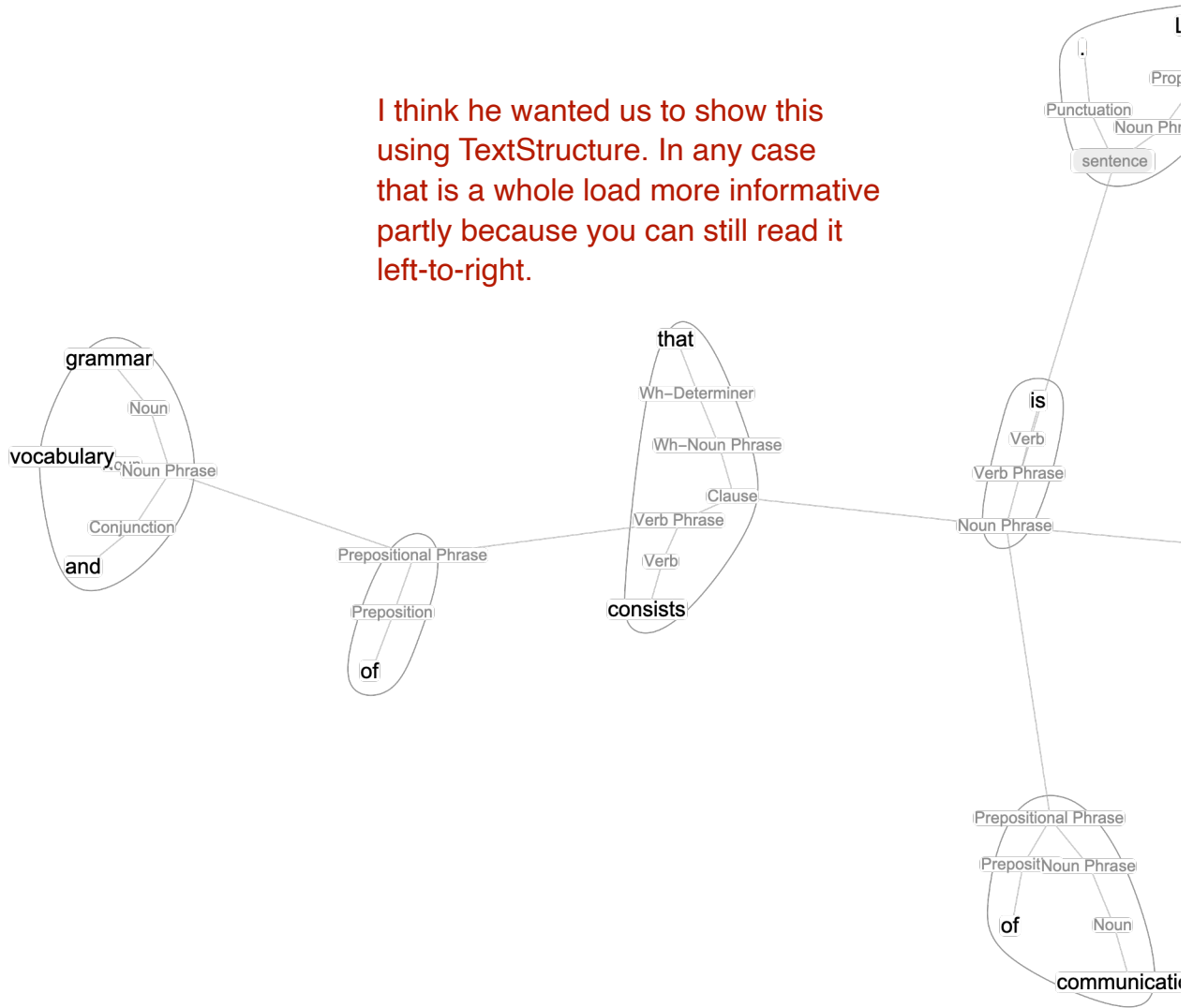| A	computer	is	a	machine	that	can	be	programmed	to	automa
Determiner	Noun	Verb	Determiner	Noun	Wh–Determiner	Verb	Verb	Verb	Preposition	A
Noun Phrase			Noun Phrase		Wh–Noun Phrase					Adve

In[115]:=
```
Keys[TakeLargest[
  Counts[TextCases[ExampleData[{"Text", "AliceInWonderland"}], "Noun"]], 10]]
```

Out[115]=
```
{Rabbit, door, voice, time, way, Mouse, moment, thing, head, table}
```

In[116]:=

```
CommunityGraphPlot[First[TextStructure[
    First[TextSentences[WikipediaData["language"]]], "ConstituentGraphs"]]]
```

Out[116]=

I think he wanted us to show this
using TextStructure. In any case
that is a whole load more informative
partly because you can still read it
left-to-right.

In[117]:=

```
Length[Flatten[TextCases[WordList[], #]]] & /@ {"Noun", "Verb", "Adjective", "Adverb"}
```

Out[117]=

{22 728, 5894, 7146, 2824}

In[118]:=

```
Flatten[Table[WordTranslation[IntegerName[n], "French"], {n, 2, 10}]]
```

Out[118]=

{deux, trois, quatre, cinq, six, sept, huit, neuf, dix}

In[119]:=
```
CloudPublish[Delayed[Style[RandomInteger[1000], 100]]]
```
Out[119]=
CloudObject[https://www.wolframcloud.com/obj/4b8f5f56-9abd-4402-b6e1-e614d48e0ce5]

In[120]:=
```
CloudPublish[FormFunction[{"x" → "Number"}, #x^#x &]]
```
Out[120]=
CloudObject[https://www.wolframcloud.com/obj/21d0a94e-3a6c-4b48-a00a-a6be2387e2df]

In[121]:=
```
CloudPublish[FormFunction[{"x" → "Number", "y" → "Number"}, #x^#y &]]
```
Out[121]=
CloudObject[https://www.wolframcloud.com/obj/a88ee3d7-45fc-4d03-9a33-98538660b688]

In[122]:=
```
CloudPublish[
  FormFunction[{"topic" → "String"}, WordCloud[TextWords[WikipediaData[#topic]]] &]]
```
Out[122]=
CloudObject[https://www.wolframcloud.com/obj/36a56a45-fe76-48e7-b55e-a87c9057eb9b]

In[123]:=
```
CloudPublish[
  FormFunction[{"string" → "String"}, Style[StringReverse[#string], 50] &]]
```
Out[123]=
CloudObject[https://www.wolframcloud.com/obj/841b9f3e-d84f-4e42-9b16-ae3d5857a448]

In[124]:=
```
CloudPublish[Delayed[FormFunction[{"n" → "Integer"},
    Graphics[Style[RegularPolygon[#n], RandomColor[]]] &]]]
```
Out[124]=
CloudObject[https://www.wolframcloud.com/obj/049a2799-475b-423b-9eaf-c192d7e5c5f8]

In[125]:=
```
CloudPublish[FormFunction[{"location" → "Location", "n" → "Number"},
  GeoListPlot[GeoNearest["Volcano", #location, #n]] &]]
```
Out[125]=
CloudObject[https://www.wolframcloud.com/obj/ace4c664-d34f-498b-839e-12c142768659]