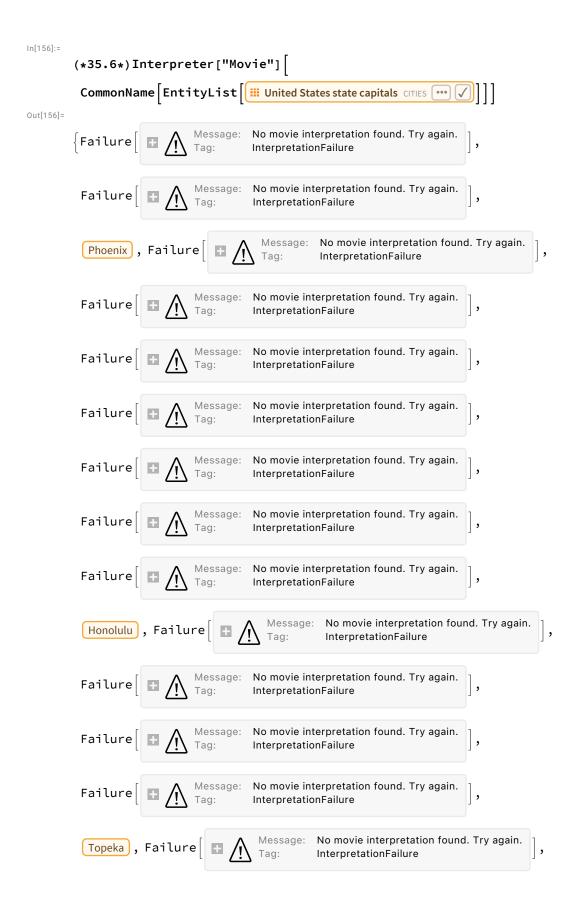
Eli — EIWL Sections 35, 36

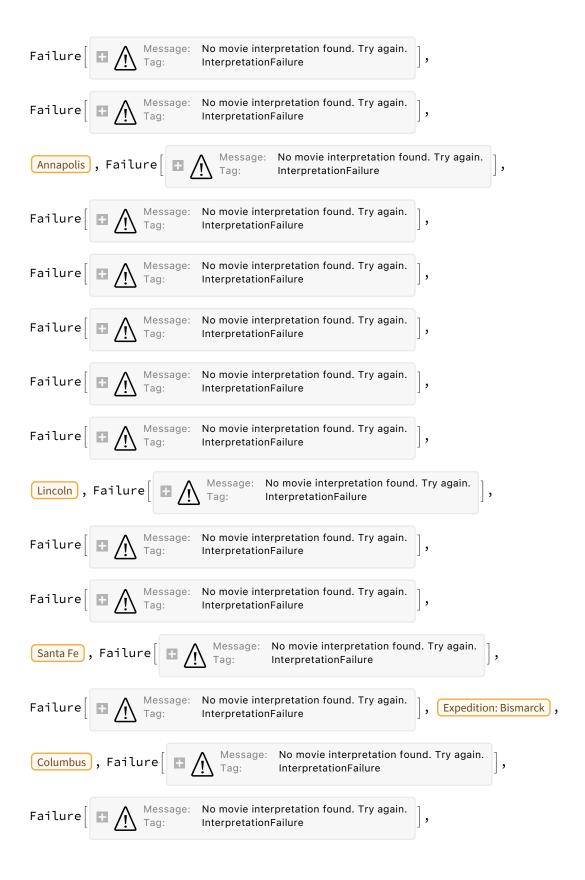
```
In[151]:=
       (*35.1*) Interpreter["Location"]["eiffel tower"]
Out[151]=
       GeoPosition[{48.8583, 2.29444}]
In[152]:=
       (*35.2*)Interpreter["University"]["U of T"]
Out[152]=
        University of Toronto
In[153]:=
       (*35.3*) Interpreter ["Chemical"] [{"C2H4", "C2H6", "C3H8"}]
Out[153]=
        ethylene, ethane, propane
In[154]:=
       (*35.4*) Interpreter ["Date"] ["20140108"]
Out[154]=
       Wed 8 Jan 2014
In[155]:=
       (*35.5*) Interpreter ["University"] [
        Table[StringJoin["U of ", Capitalize[FromLetterNumber[x]]], {x, 26}]]
```

There is a way to clean all the failures on this and subsequent exercise up. See solution. It took me a bit to figure it out too.

Out[155]= Failure Message: No university interpretation found. Try again. InterpretationFailure University of Birjand University of California-Berkeley , Failure Message: No university interpretation found. Try again. InterpretationFailure The University of Edinburgh , Failure Message: No university interpretation found. Try again. InterpretationFailure University of Georgia , University of Houston , University of Illinois at Urbana-Champaign , Failure Message: No university interpretation found. Try again. InterpretationFailure Failure Message: No university interpretation found. Try again. InterpretationFailure University of Lethbridge University of Michigan-Ann Arbor, Failure Message: No university interpretation found. Try again. InterpretationFailure Failure Message: No university interpretation found. Try again. InterpretationFailure University of Phoenix-Online Campus Failure Message: No university interpretation found. Try again. InterpretationFailure University of Regina , University of Saskatchewan , University of Toronto Failure Message: No university interpretation found. Try again. InterpretationFailure Failure Message: No university interpretation found. Try again. InterpretationFailure Failure Message: No university interpretation found. Try again. InterpretationFailure Failure Message: No university interpretation found. Try again. InterpretationFailure Failure Message: No university interpretation found. Try again. InterpretationFailure

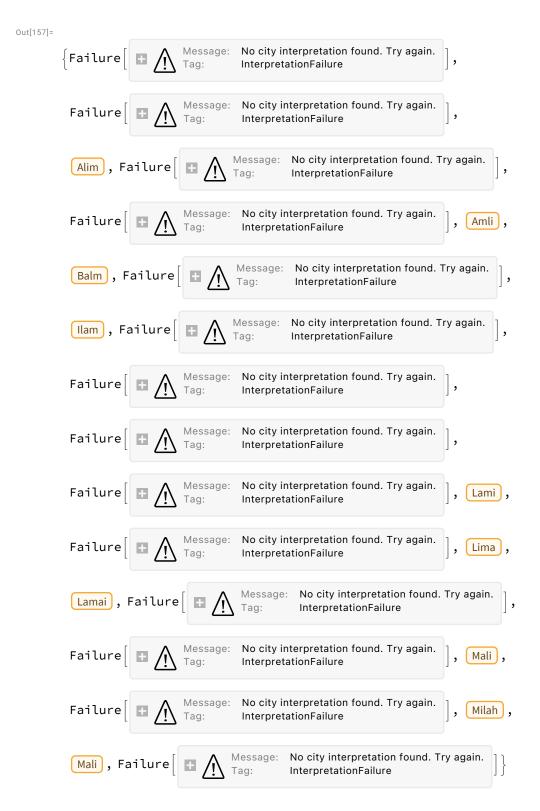
Failure Message: No university interpretation found. Try again. InterpretationFailure







(*35.7*) Interpreter["City"] [StringJoin[#] & /@ Permutations[{"a", "i", "l", "m"}]]



```
In[158]:=
       (*35.8*)WordCloud[TextCases[WikipediaData["gunpowder"], "Country"]]
Out[158]=
                           United Kingdom
           Ireland
           Australia
                                                Japan
            Persian
                                                 Italy
                     Persia
             British
                                                 Bengal
              Greek
```

```
In[159]:=
       (*35.9*)TextCases["She sells sea shells by the sea shore", "Noun"]
Out[159]=
       {sea, shells, sea, shore}
In[160]:=
       (*35.10*) Length[#] & /@
       Values[TextCases[StringJoin[Characters[WikipediaData["Computers"]][1;; 1000]]],
          {"Noun", "Verb", "Adjective"}]]
Out[160]=
       {54, 23, 20}
```

Out[165]=

35.11) TextS	tructure[TextSente	nces[WikipediaDa	ta["computers"]][1]]
,	•	• •	

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[162]:=	
111[102].	(*35.12*)Keys[Reverse[Sort[Counts[
	<pre>TextCases[ExampleData[{"Text", "AliceInWonderland"}], "Noun"]]]][1;; 10]]]</pre>
Out[162]=	{Rabbit, door, voice, time, Mouse, way, moment, thing, head, garden}
In[163]:=	
	<pre>(*35.13*)words := TextWords[TextSentences[WikipediaData["language"]][1]]; words</pre>
Out[164]=	Clanguage is a structured system of
	{Language, is, a, structured, system, of, communication, that, consists, of, grammar, and, vocabulary}
In[165]:=	CommunityGraphPlot[words[#]] → words[# + 1] & /@ Range[Length[words] - 1]]

I found using TextStructure to get the plot gave something much more informative.

Graphics[Style[RegularPolygon[#n], RandomColor[]]] &]]

CloudObject https://www.wolframcloud.com/obj/a3537411-5ad6-4412-b3c8-97409efd1567

Out[173]=

In[174]:=

(*36.7*)