

Word Frequency Research

https://community.wolfram.com/groups/-/m/t/1432072?p_p_auth=5kWPluIX

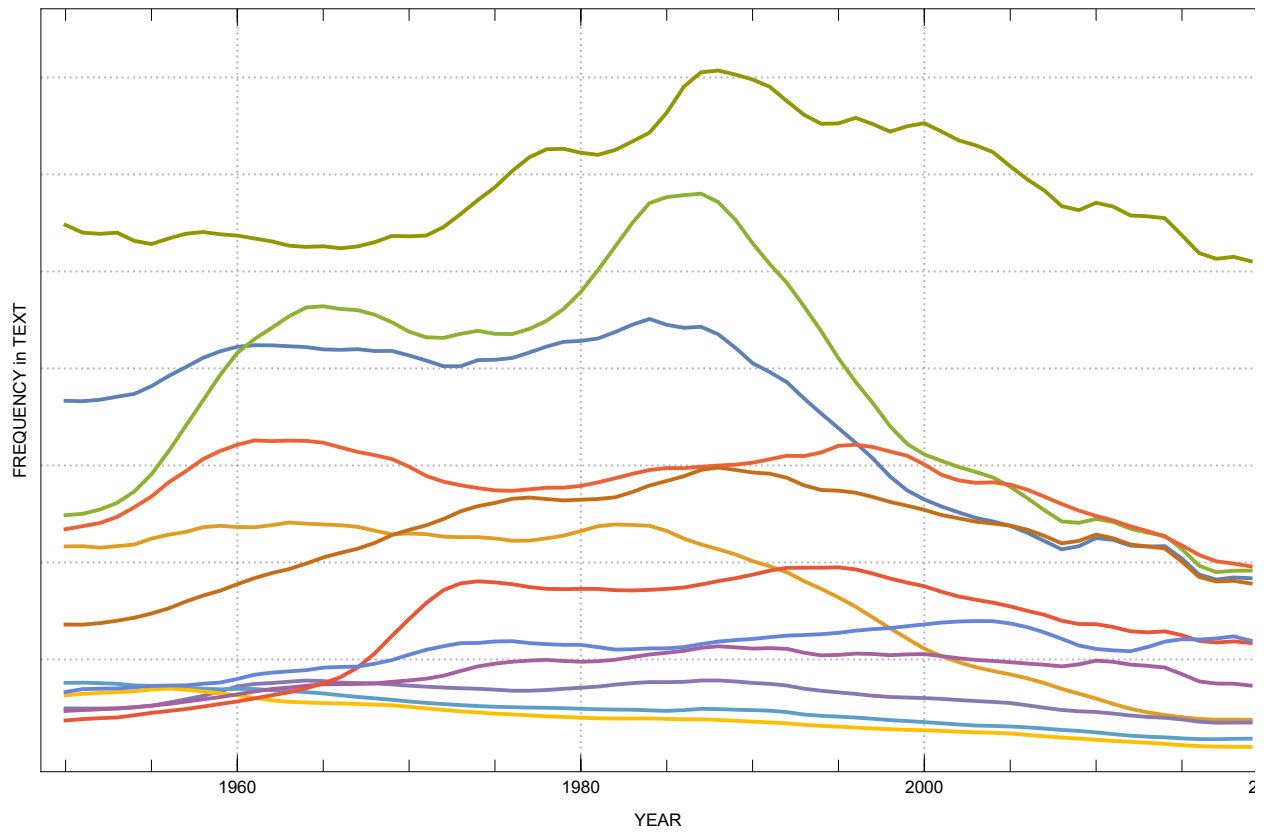
```
In[ ]:= ClearAll@WordFrequencyPlot;

Options[WordFrequencyPlot] = {"YearStart" → 1800, "YearEnd" → Now,
  "Case" → True, "Smooth" → 3, "Scaling" → None, "Style" → Automatic};

WordFrequencyPlot[words_, OptionsPattern[]] :=
  With[{$data = WordFrequencyData[words, "TimeSeries",
    {OptionValue["YearStart"], OptionValue["YearEnd"]},
    IgnoreCase → OptionValue["Case"]]}, DateListPlot[MapThread[Callout,
    {MeanFilter[#, Quantity[OptionValue["Smooth"], "Years"]] & /@ Values[$data], words}],
    ScalingFunctions → OptionValue["Scaling"], PlotRange → All, PlotTheme → "Detailed",
    PlotStyle → OptionValue["Style"], FrameTicks → {Automatic, None},
    ImageSize → 800, FrameLabel → {"YEAR", "FREQUENCY in TEXT"}]]

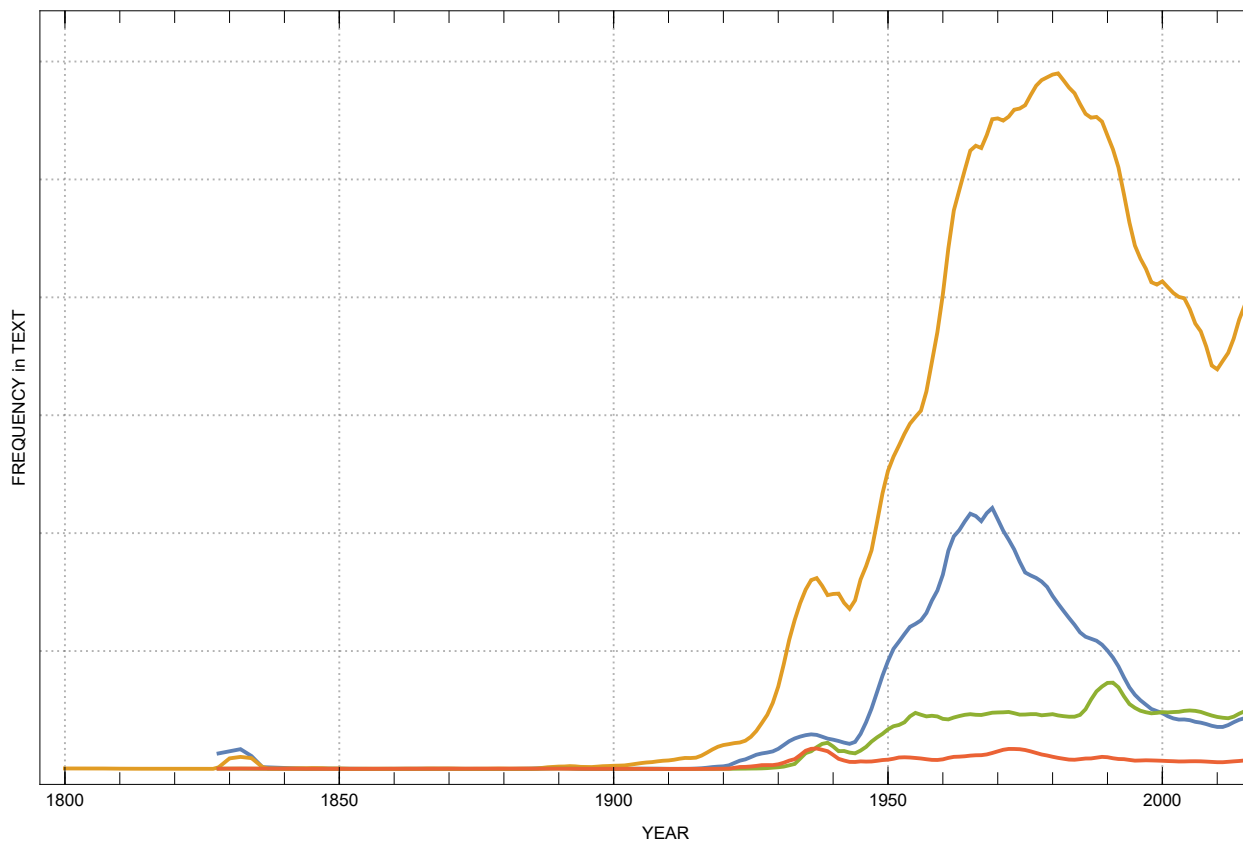
In[ ]:= WordFrequencyPlot[
  {"chemistry", "geology", "physics", "mathematics", "astronomy", "biology", "botany",
    "zoology", "genetics", "medicine", "ecology", "anthropology"}, "YearStart" → 1950]
```

Out[]:=



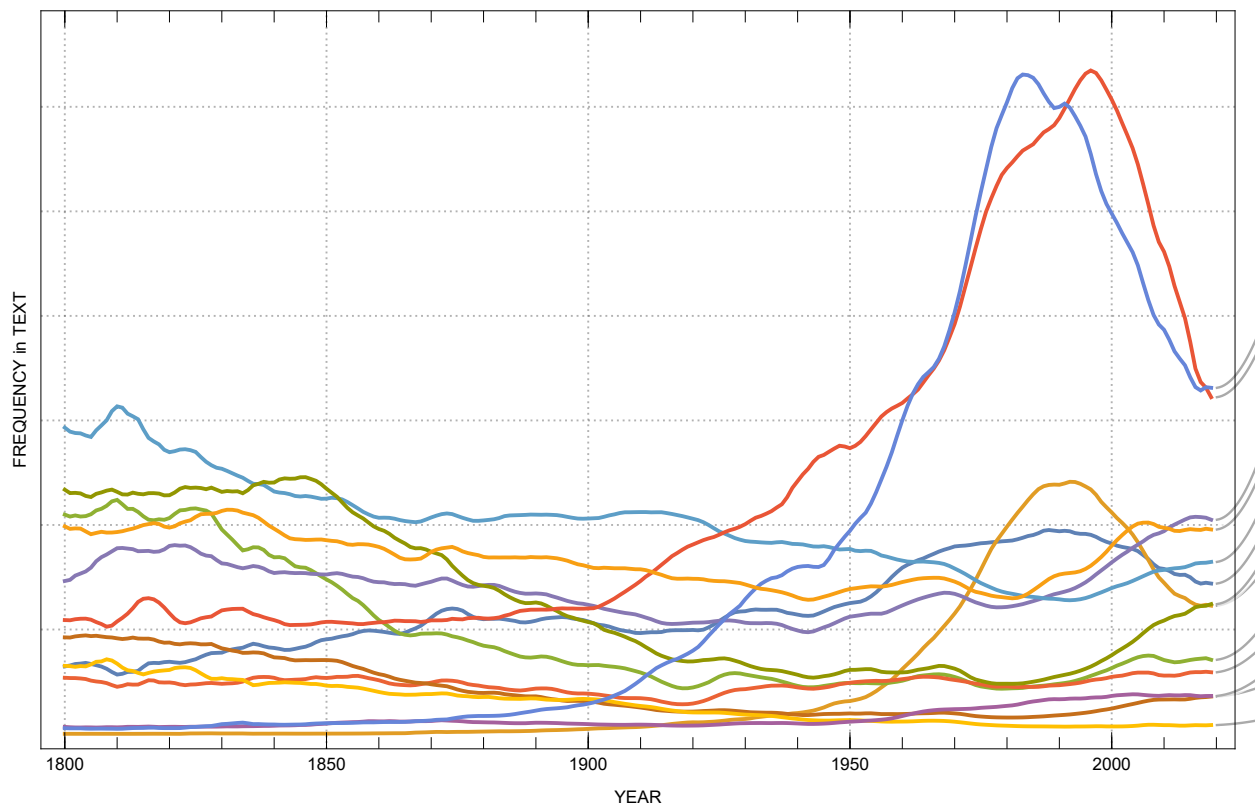
In[]:= WordFrequencyPlot[{"Leninism", "Marxism", "Stalinism", "Trotskyism"}]

Out[8]=



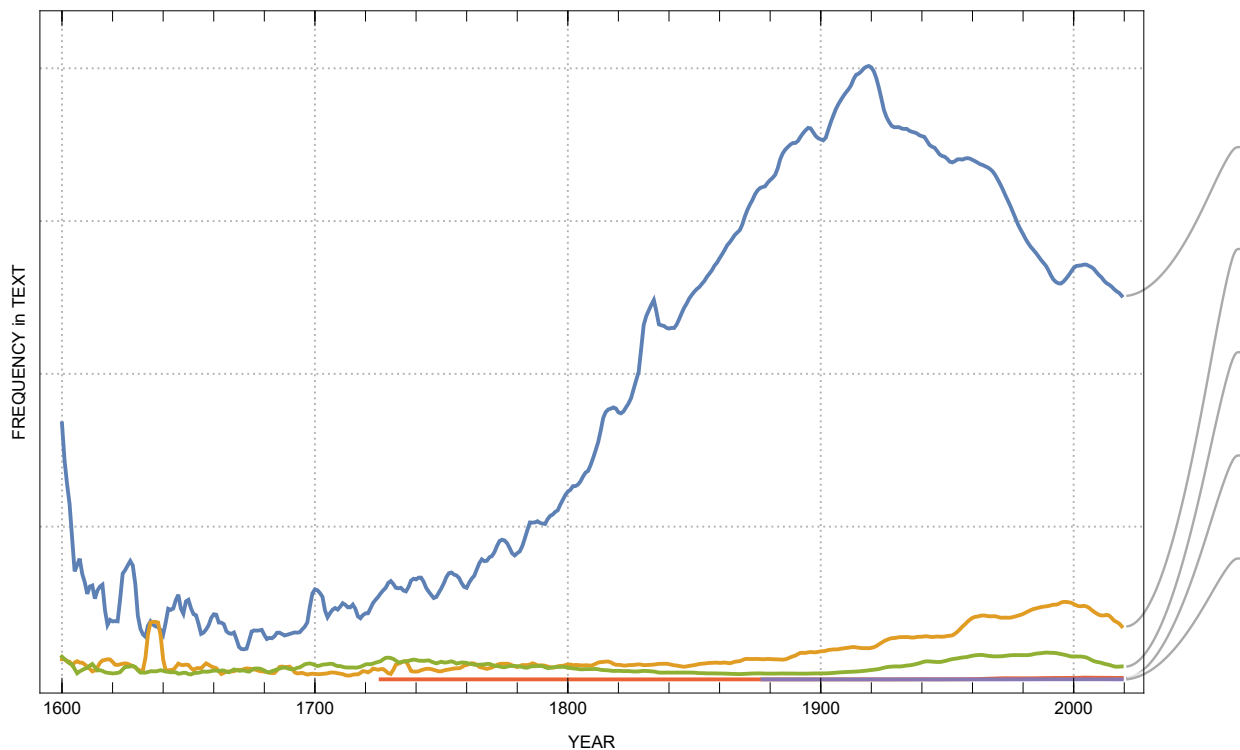
```
In[8]:= WordFrequencyPlot[{"science", "technology" | "tech", "religion", "philosophy", "sense",
    "wisdom", "reason", "wit", "logic", "truth", "information", "data", "knowledge"}]
```

Out[*n*]=



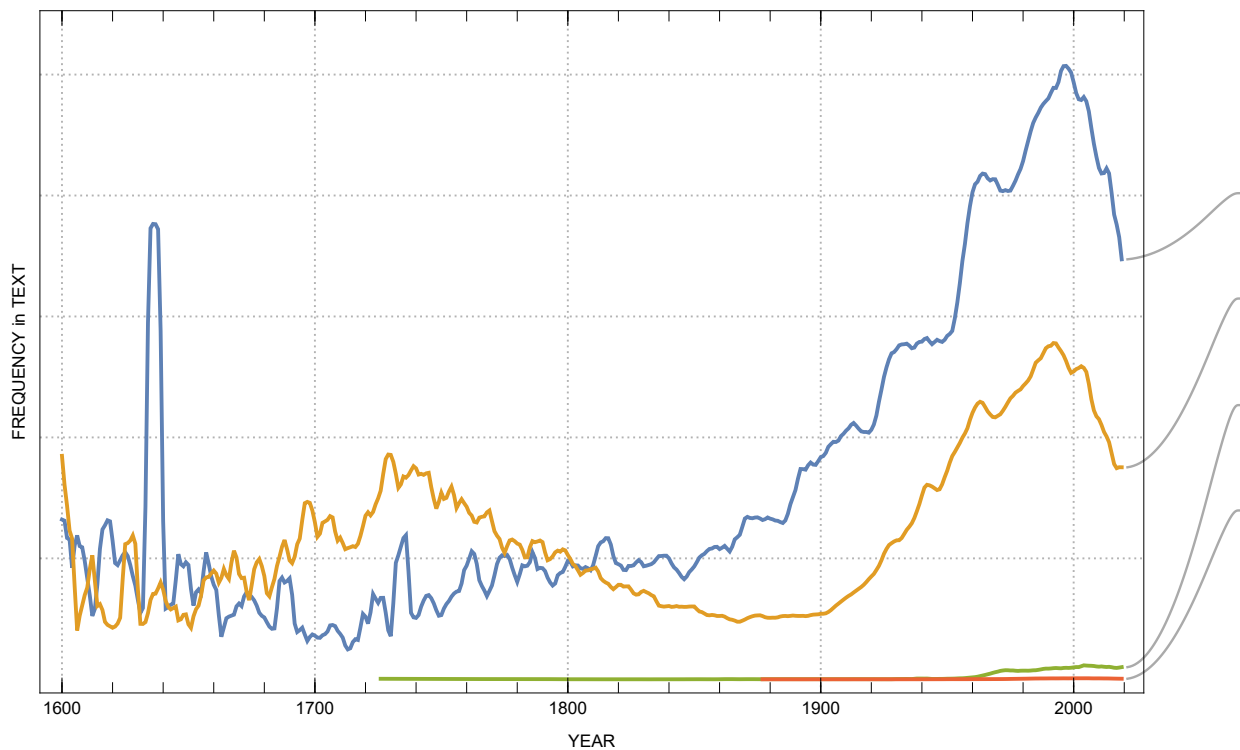
```
In[n]:= WordFrequencyPlot[{"fact", "math" | "mathematics", "computation",  
    "morphism" | "functor", "multiway" | "multicomputation"}, "YearStart" → 1600]
```

Out[8]=



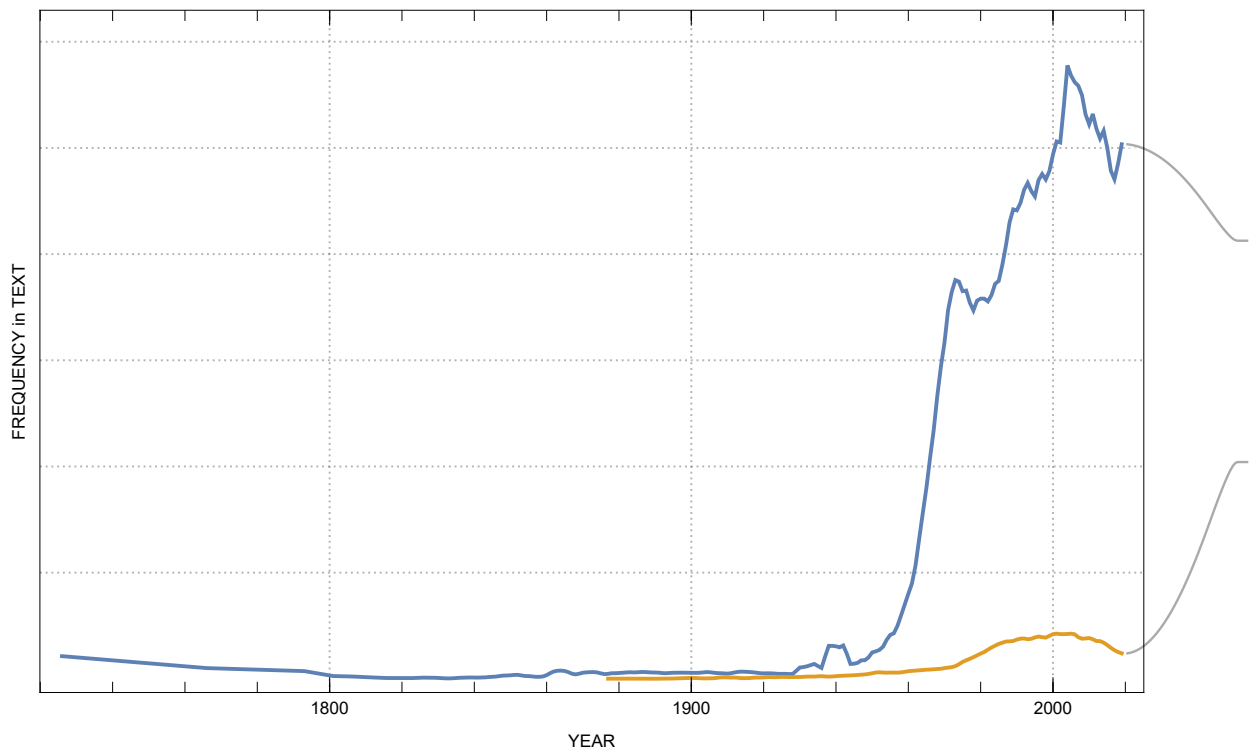
```
In[9]:= WordFrequencyPlot[{"math" | "mathematics", "compute" | "computation",  
  "morphism" | "functor", "multiway" | "multicomputation"}, "YearStart" -> 1600]
```

Out[9]=



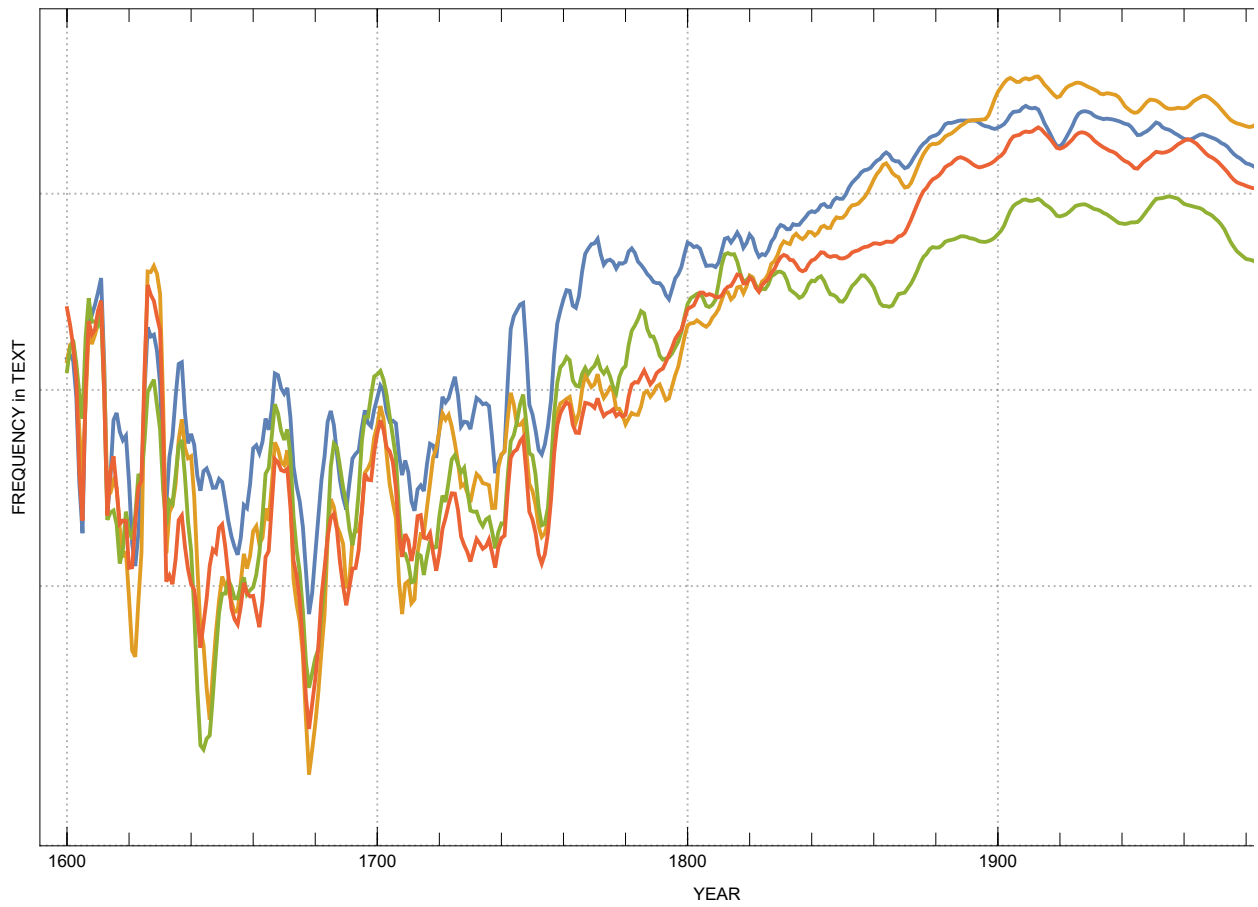
```
In[ ]:= WordFrequencyPlot[
  {"morphism" | "functor", "multiway" | "multicomputation"}, "YearStart" → 1600]
```

```
Out[ ]:=
```



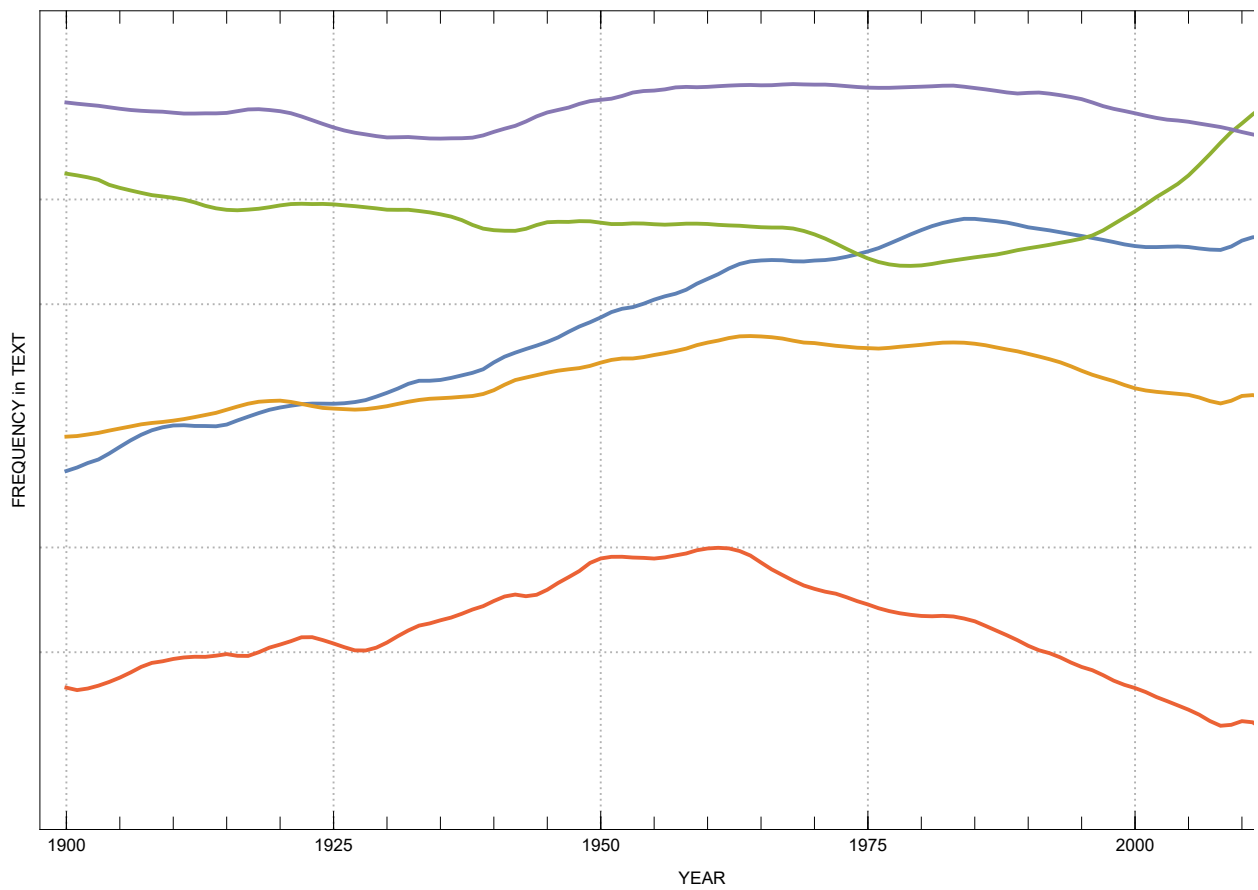
```
In[ ]:= WordFrequencyPlot[{"North", "South", "East", "West"}, "YearStart" → 1600, "Scaling" → "Log"]
```

Out[]=



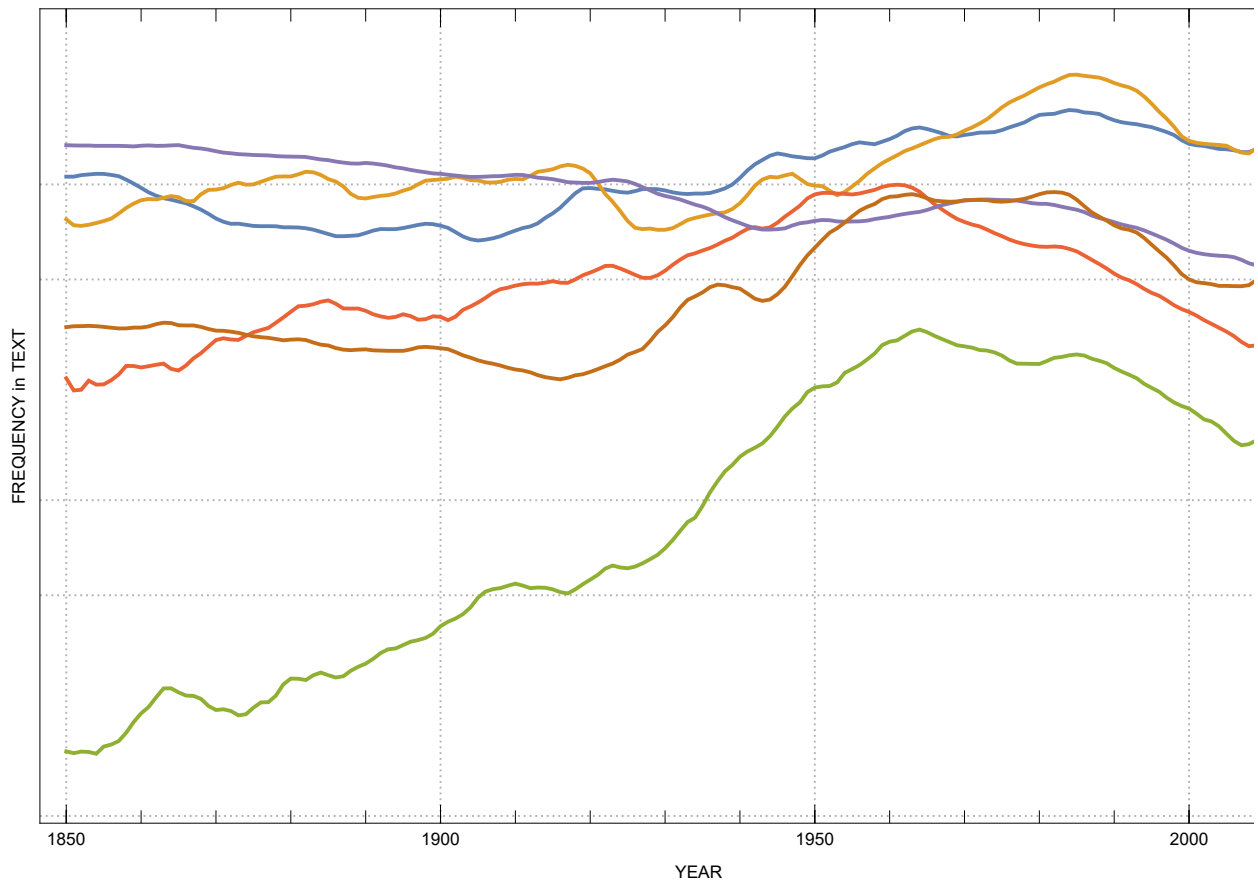
```
In[ ]:= WordFrequencyPlot[{"stress", "strain", "moment", "deflection", "force"},
  "YearStart" -> 1900, "Scaling" -> "Log"]
```

Out[*n*]=



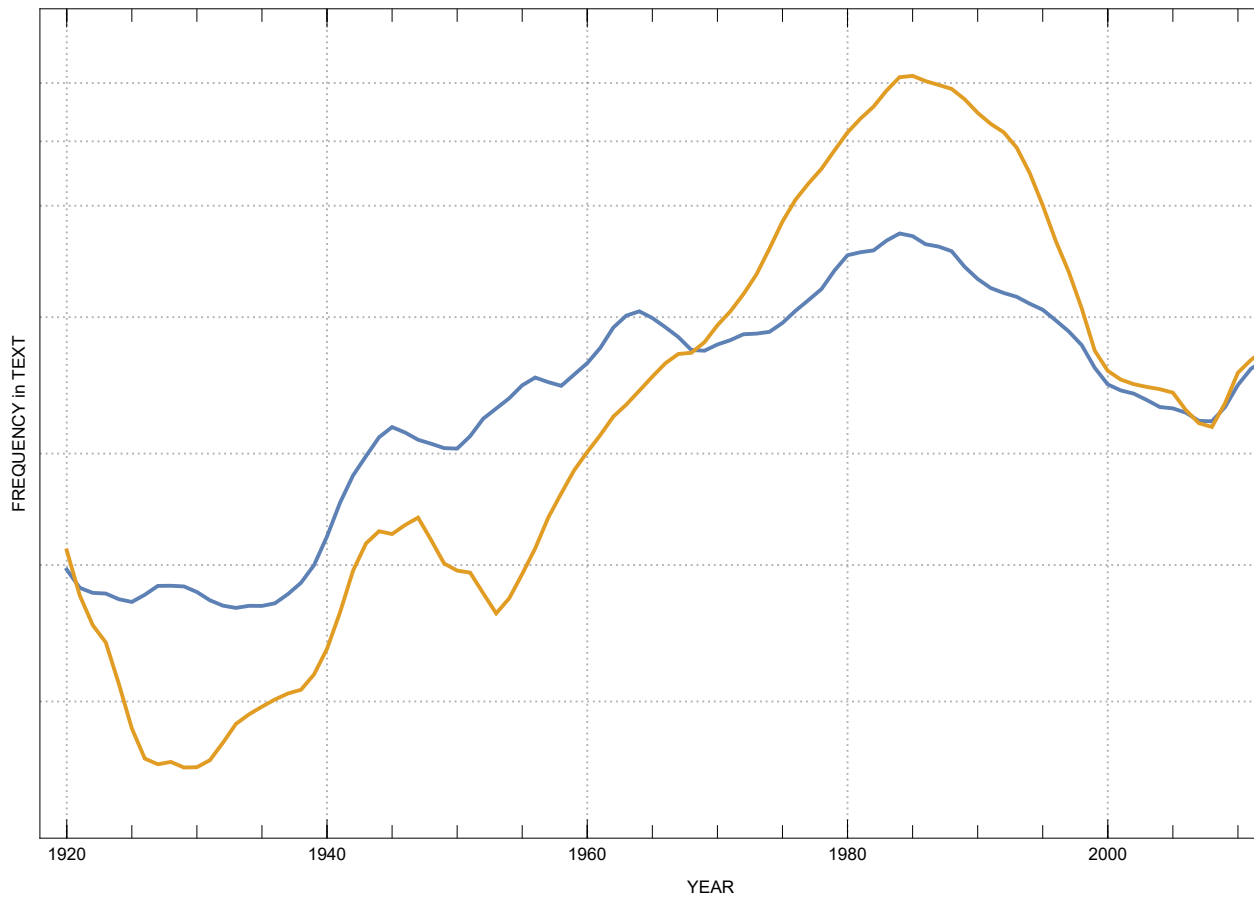
```
In[n]:= WordFrequencyPlot[{"fatigue", "fracture", "buckling", "deflection", "yielding", "creep"},
  "YearStart" -> 1850, "Scaling" -> "Log"]
```


Out[]:=



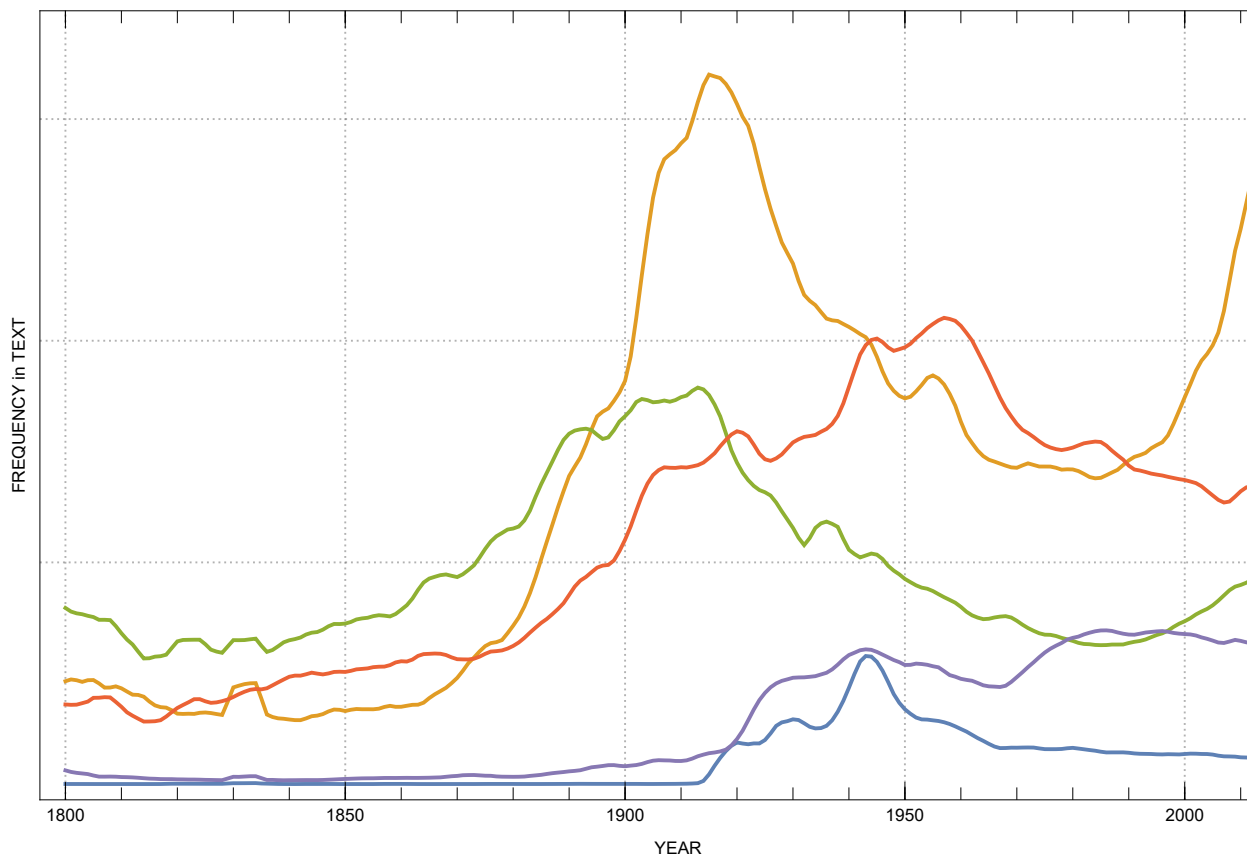
In[]:= WordFrequencyPlot[{"fatigue", "fracture"}, "YearStart" → 1920, "Scaling" → "Log"]

Out[]:=



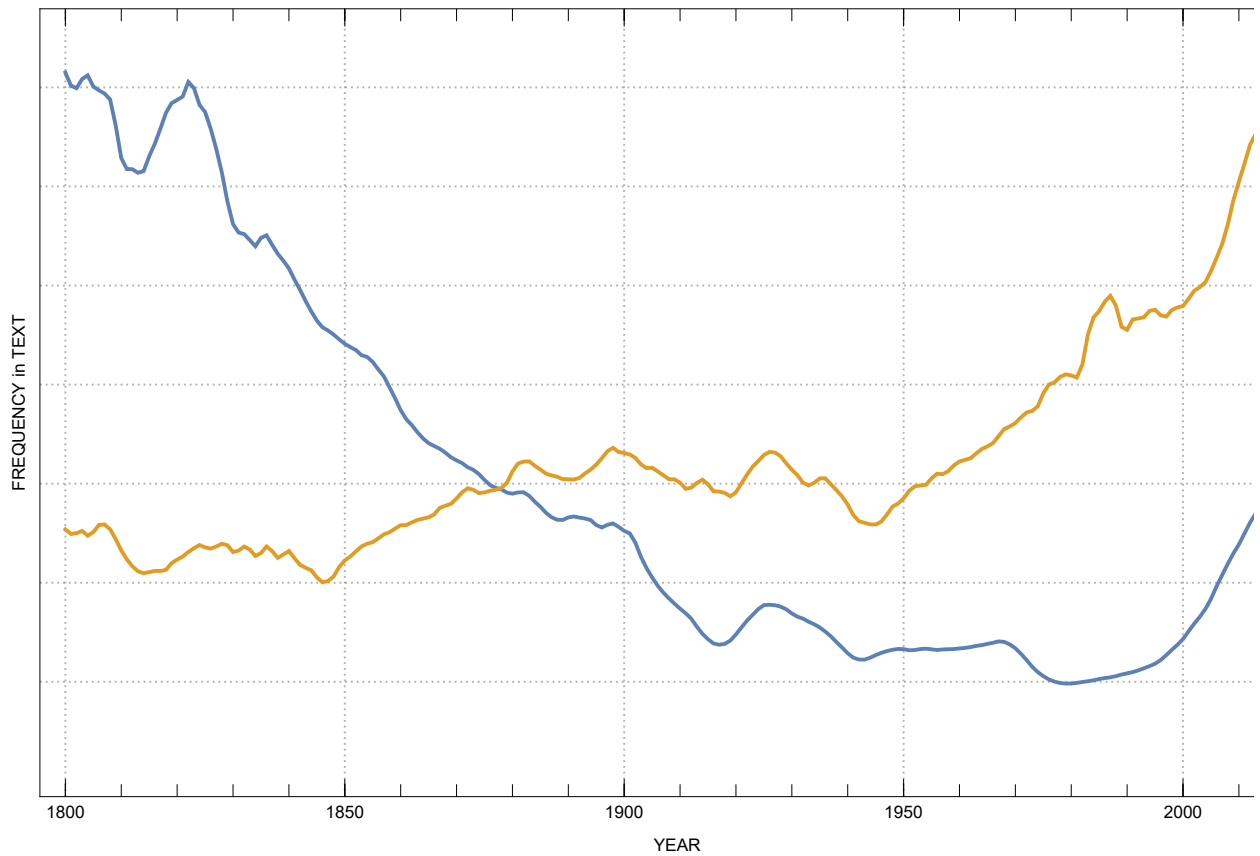
In[]:= WordFrequencyPlot[{"airplane", "car", "train", "speed", "bus"}]

Out[*]=



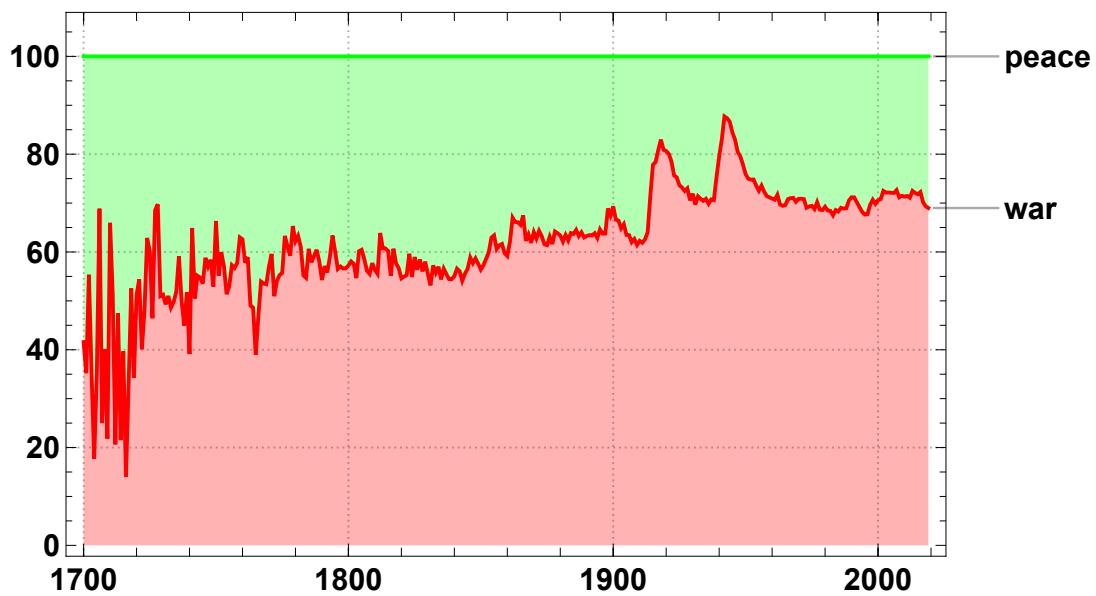
In[*]:= WordFrequencyPlot[{"curiosity", "cat"}]

Out[]=



```
In[ ]:= StackedDateListPlot[MapThread[Callout,
  {Values[WordFrequencyData[{"war", "peace"}, "TimeSeries"]], {"war", "peace"}},
  PlotRange -> All, PlotLayout -> "Percentile", ImageSize -> Large,
  PlotStyle -> {Red, Green}, LabelStyle -> Directive[Bold, 16], PlotTheme -> "Detailed"]
```

Out[]=

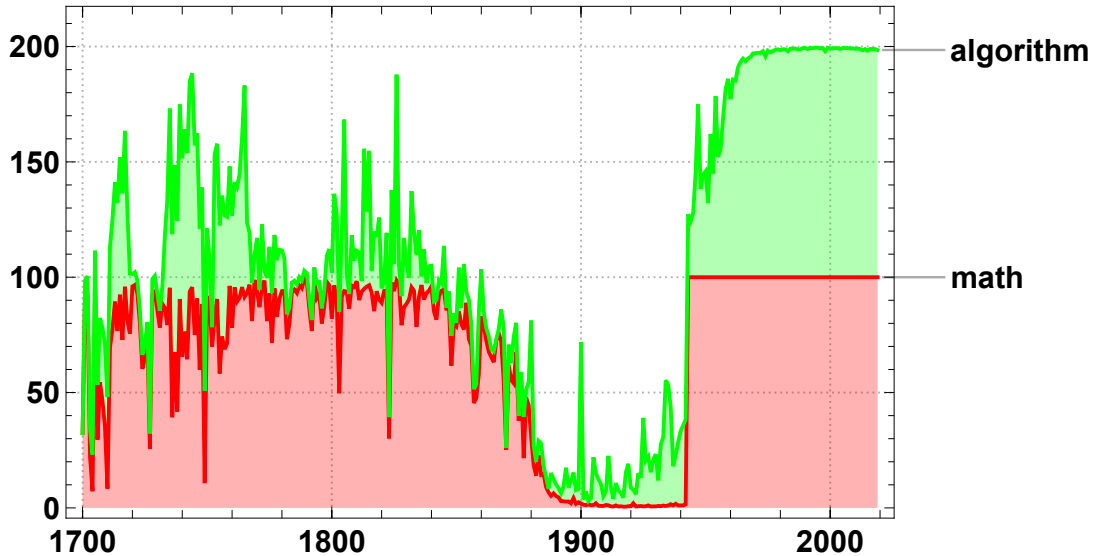


```

In[ ]:= StackedDateListPlot[
  MapThread[Callout, {Values[WordFrequencyData[{"math", "algorithm"}, "TimeSeries"]],
    {"math", "algorithm"}}], PlotRange → All, PlotLayout → "Percentile", ImageSize → Large,
  PlotStyle → {Red, Green}, LabelStyle → Directive[Bold, 16], PlotTheme → "Detailed"]

```

Out[]:=



Detailed Investigation

Navigation Instrument

History of aircraft.

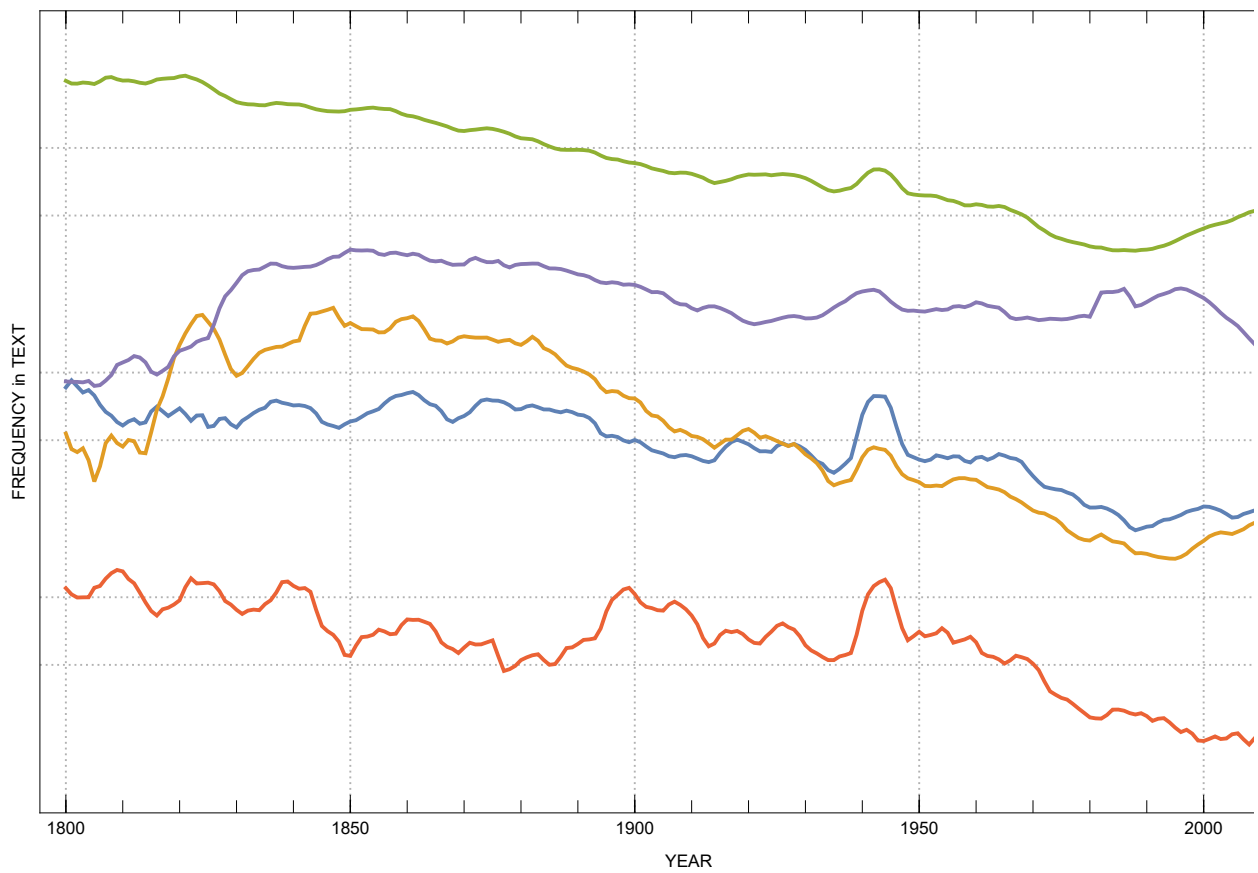
```

In[ ]:= WordFrequencyPlot[
  {"sextant", "chronometer", "compass", "pelorus", "almanac"}, "Scaling" → "Log"]

(*BlipduringWorldWarII*)

```

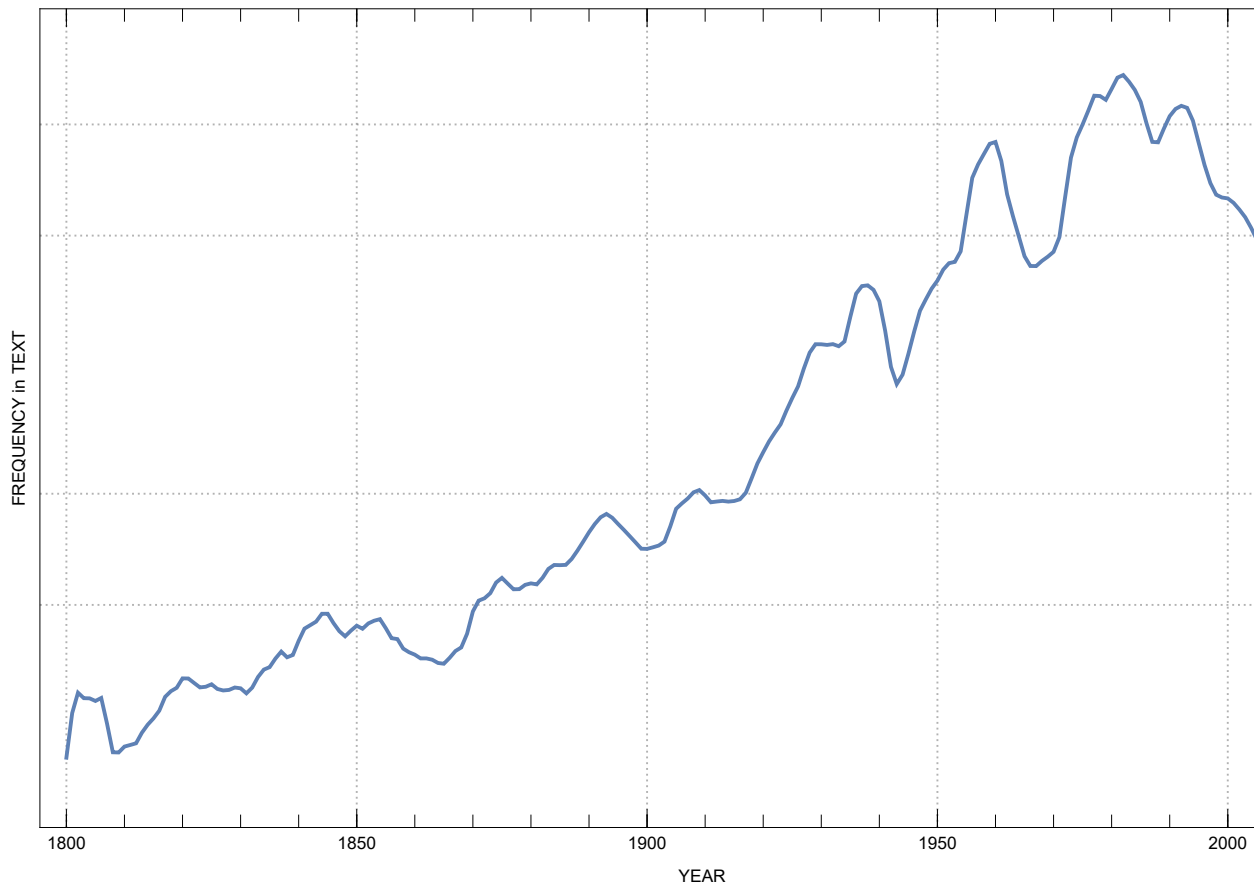
Out[]:=



Recession Frequency

```
In[ ]:= WordFrequencyPlot[{"recession"}, "Scaling" → "Log"]
```

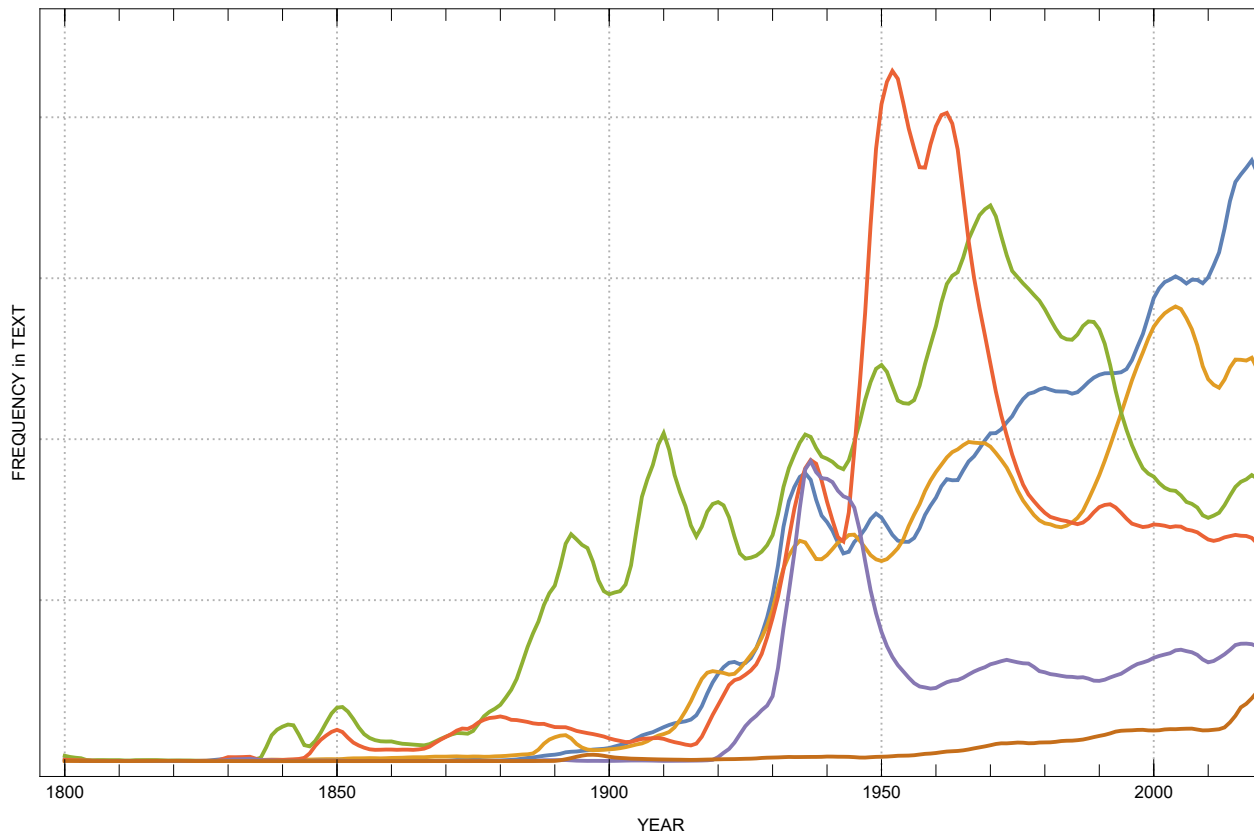
Out[]:=



World Powers

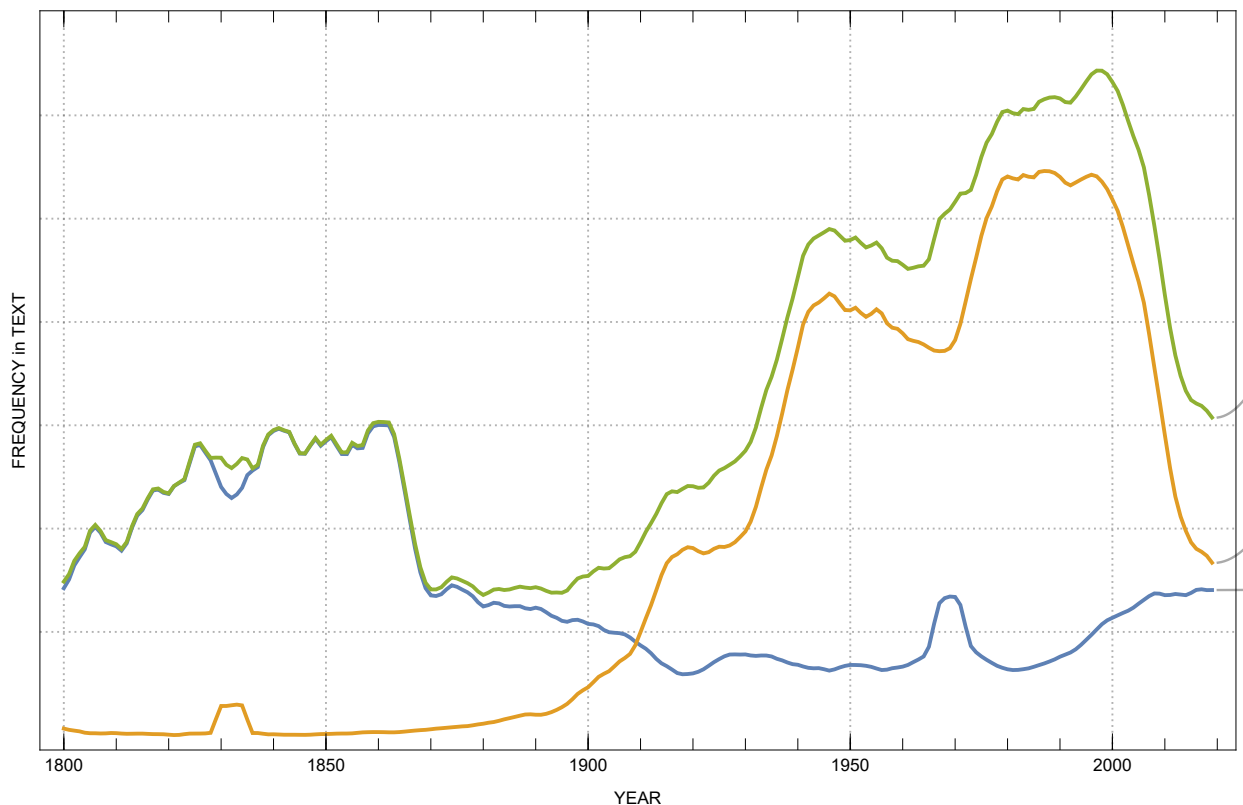
```
In[ ]:= WordFrequencyPlot[  
  {"capitalism", "nationalism", "socialism", "communism", "fascism", "populism"}]
```

Out[]:=



```
In[ ]:= WordFrequencyPlot[{"slave", "employee", "slave" | "employee"}]
```

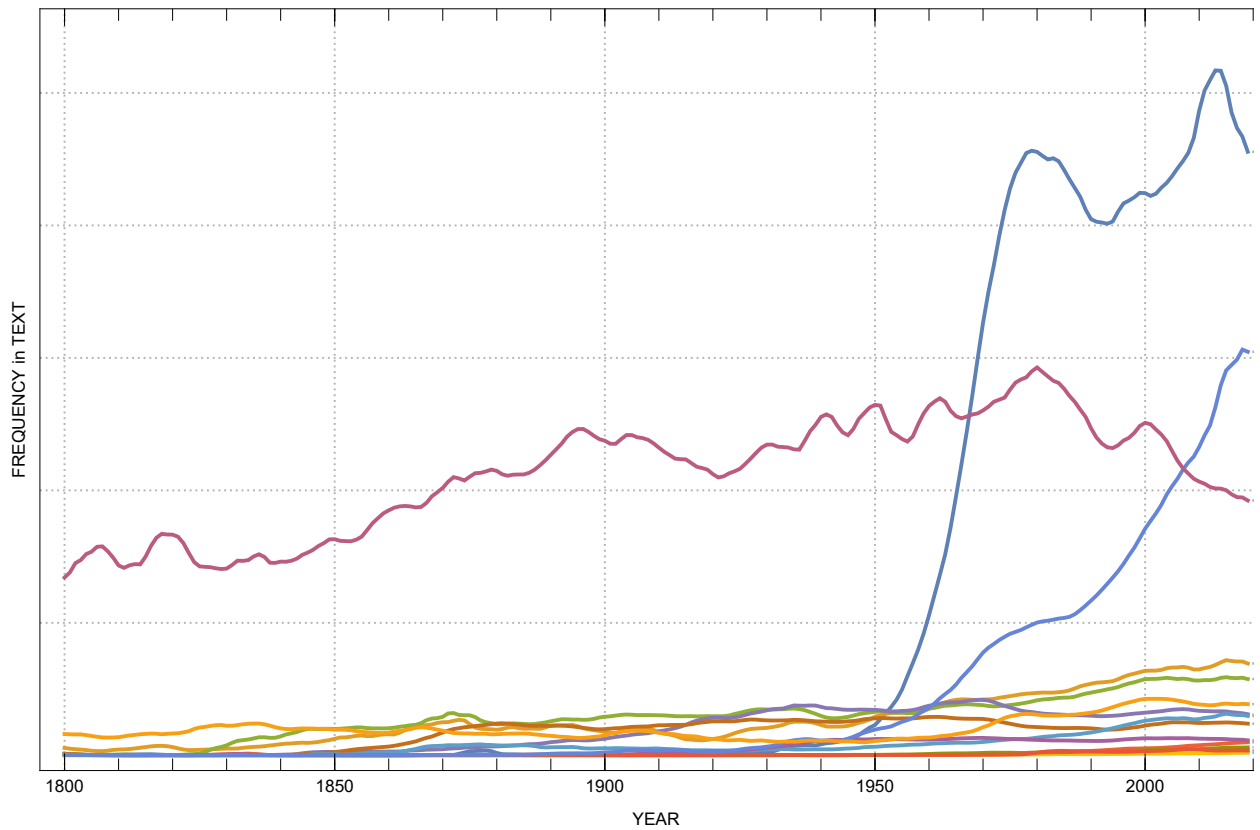

Out[]:=



Philosophy Of Thought

```
In[ ]:= WordFrequencyPlot[{"behavioral", "dialectic", "utilitarian", "deontological",
    "idealistic", "materialistic", "positivist", "negativa", "legalistic",
    "ontic", "creationist", "normative", "prescriptive", "descriptive"}]
```

Out[]:=



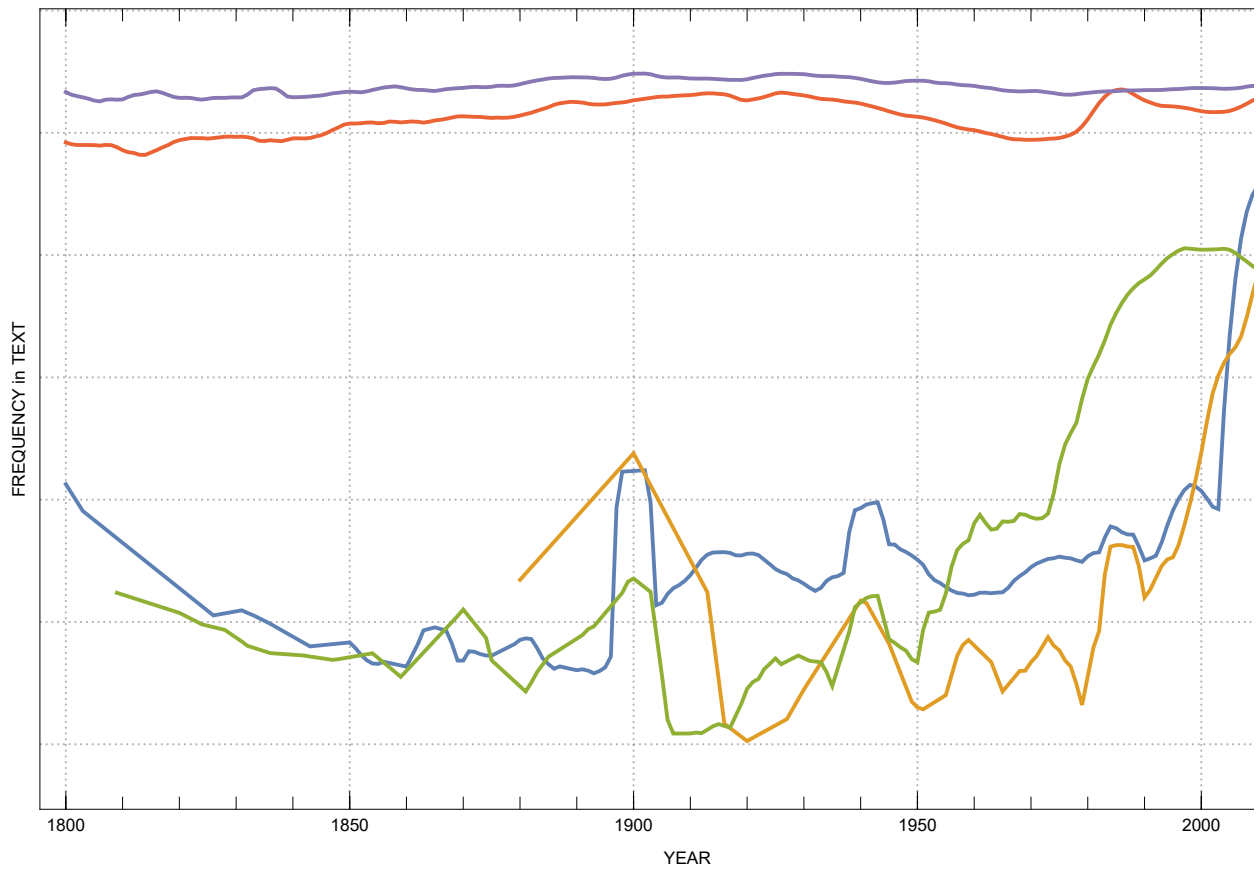
In[]:= WordFrequencyPlot["trigonometry", "calculator", "differential"]

Out[]:=

WordFrequencyPlot[trigonometry, calculator, differential]

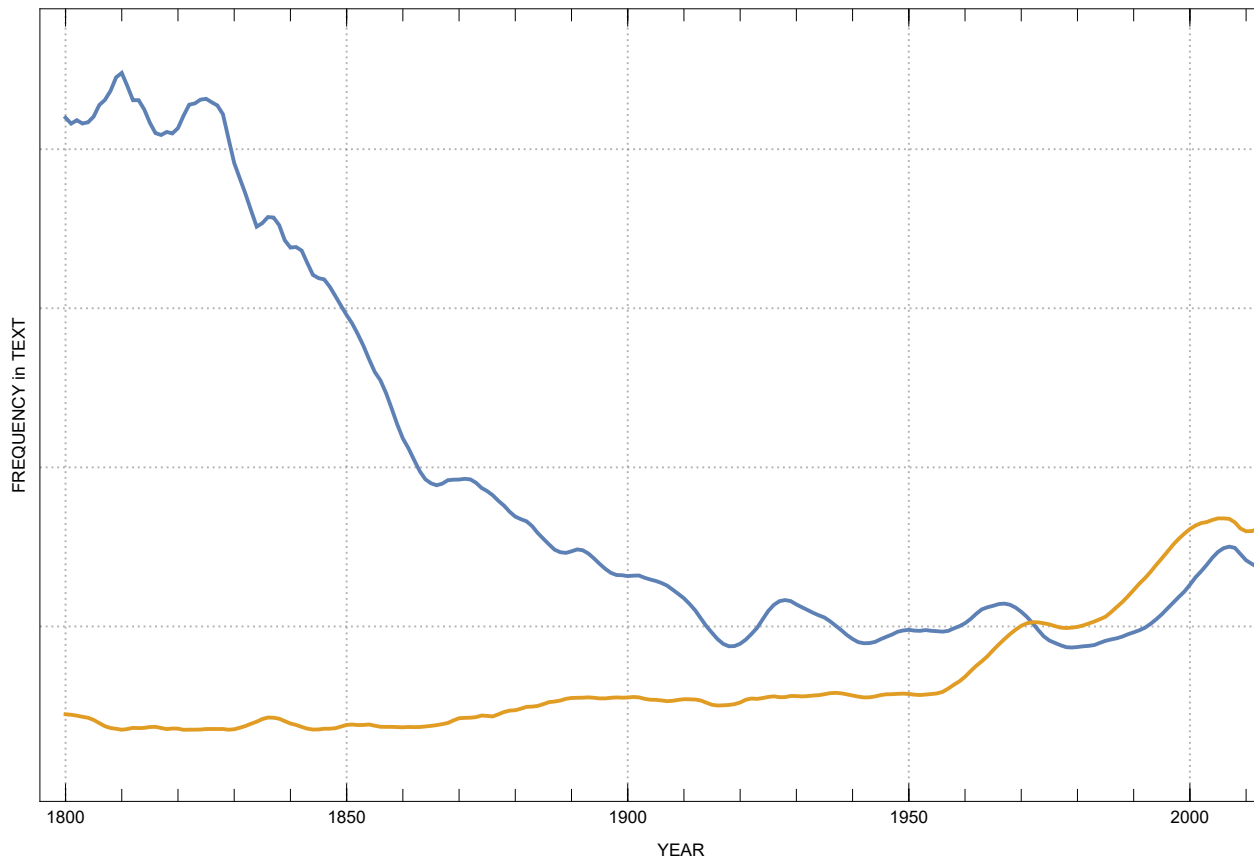
In[]:= WordFrequencyPlot[{"iPhone", "Smartphone", "Samsung", "Apple", "Orange"}, "Scaling" → "Log"]

Out[]:=



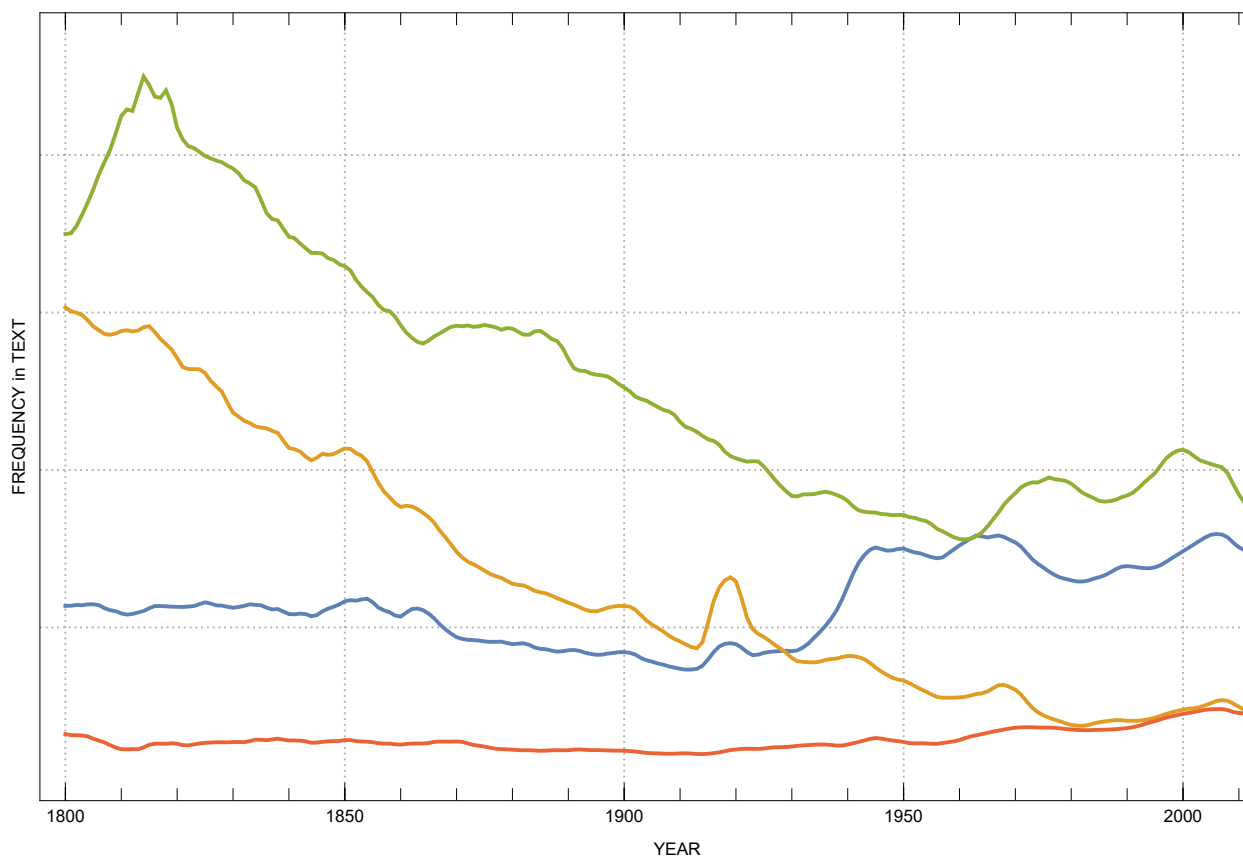
In[]:= WordFrequencyPlot[{"religion", "politics"}]

Out[]:=



In[]:= WordFrequencyPlot[{"freedom", "liberty", "justice", "equality"}]

Out[8]=



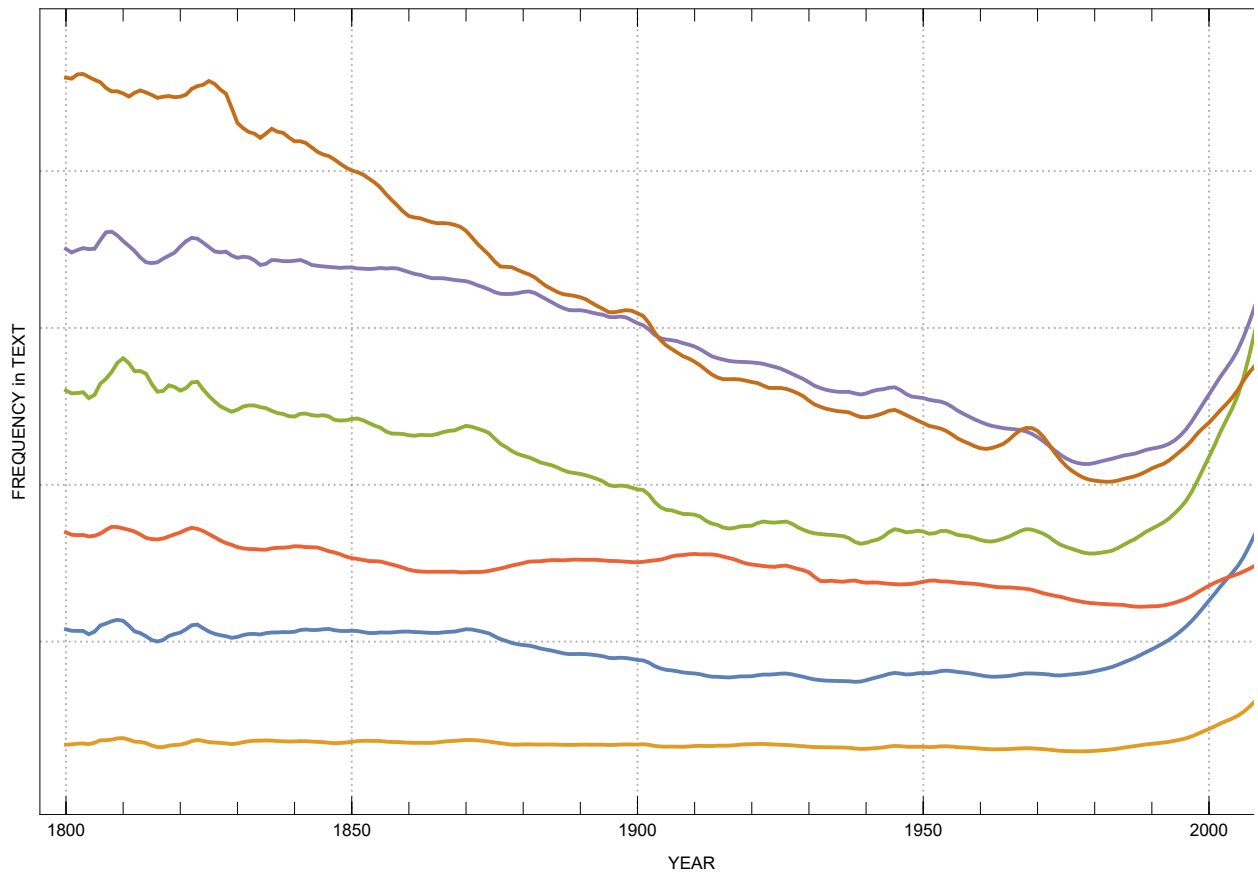
5W1H

When and who were critical questions. The internet hints at questions of what becoming more important (concerns over facts).

Also, this suggests that feature orthogonality is very important.

In[9]:= `WordFrequencyPlot[{"how", "why", "what", "where", "when", "who"}]`

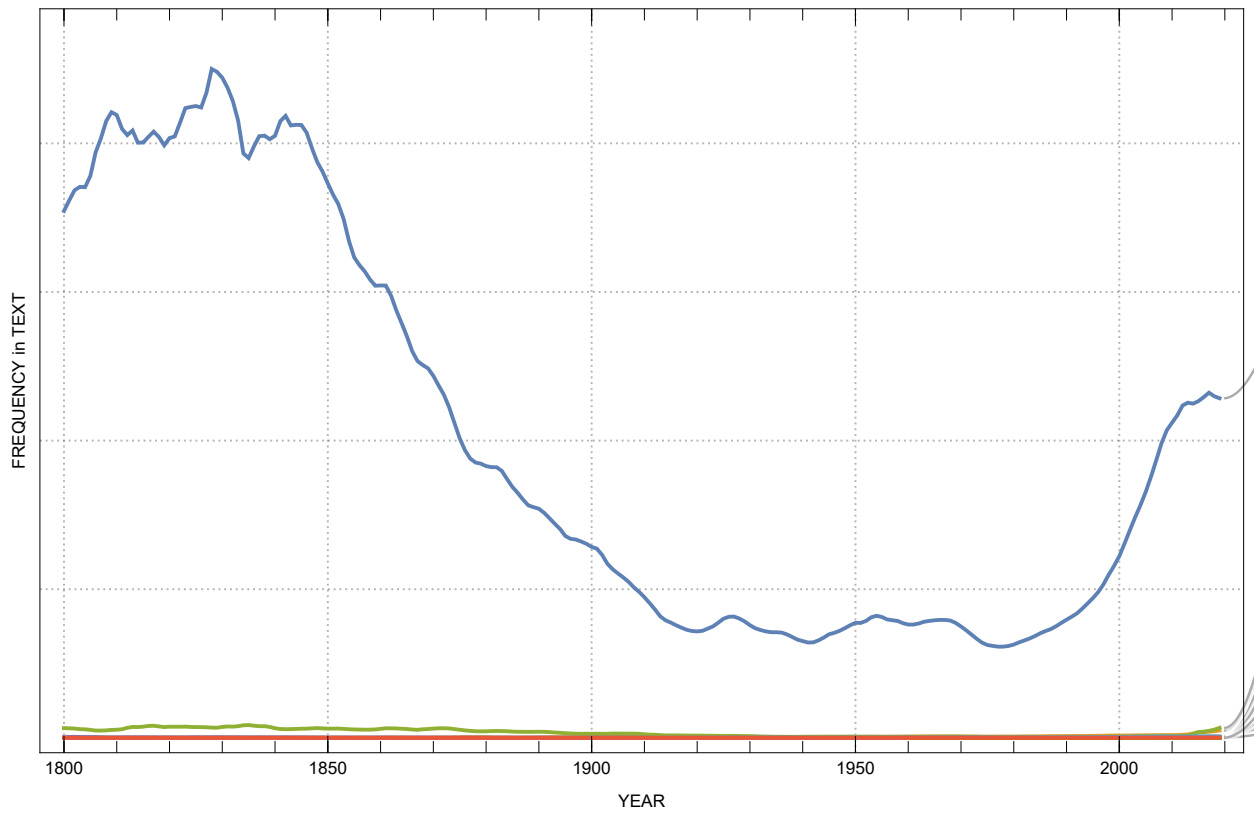
Out[]:=



Names of Abrahmic God

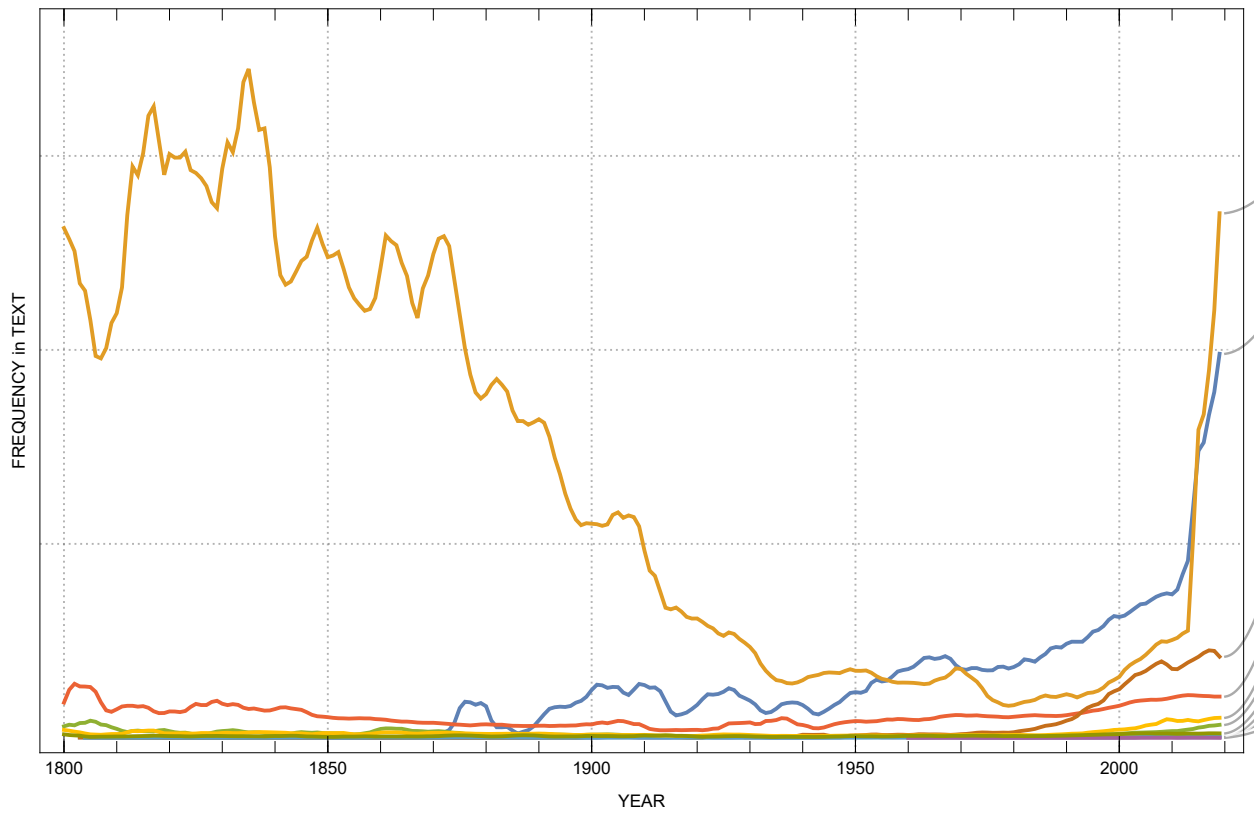
```
In[ ]:= WordFrequencyPlot[{"God", "Yahweh", "Jehovah", "Shaddai",
    "Abba", "JHWH", "YHWH", "Ehyeh", "Adonai", "Tzevaot", "Tetragrammaton"}]
```

Out[]:=



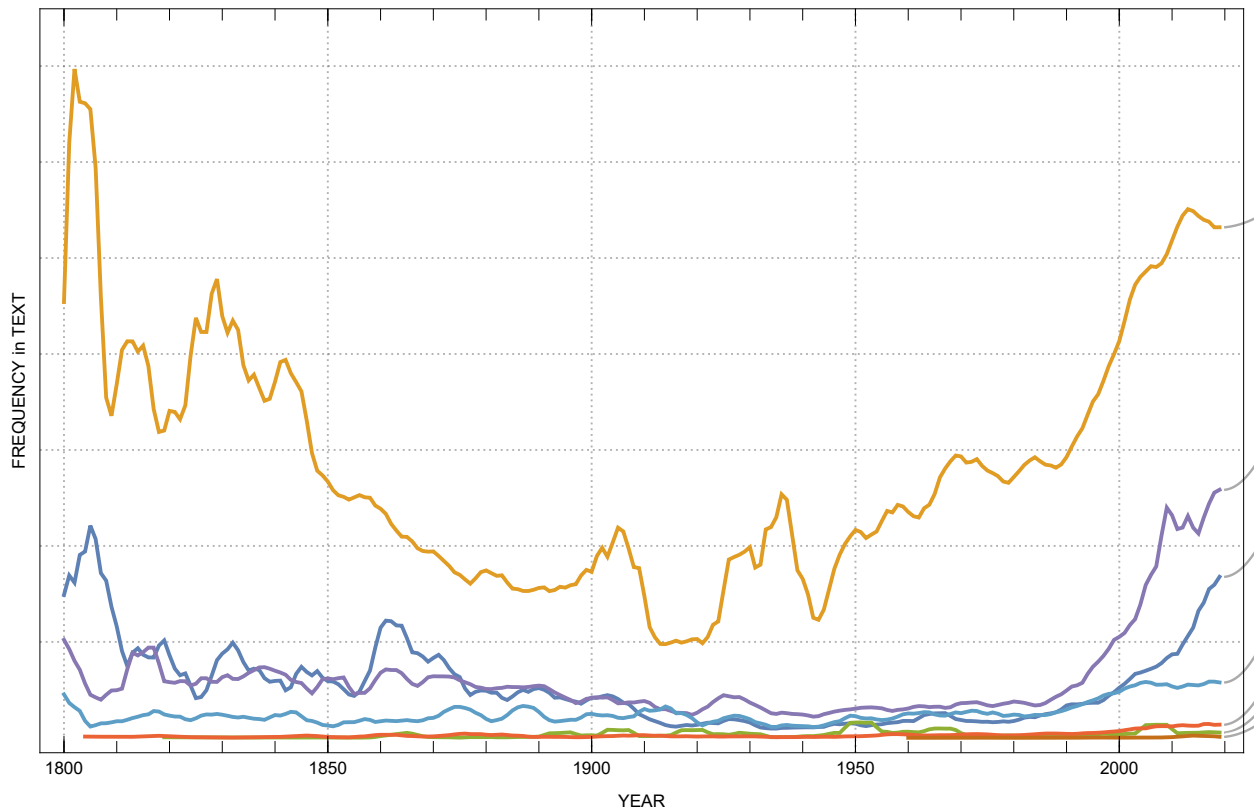
```
In[ ]:= WordFrequencyPlot[{"Yahweh", "Jehovah", "Shaddai", "Abba",
    "JHWH", "YHWH", "Ehyeh", "Adonai", "Tzevaot", "Tetragrammaton"}]
```

Out[]:=



```
In[ ]:= WordFrequencyPlot[
  {"Shaddai", "Abba", "JHWH", "Ehyeh", "Adonai", "Tzevaot", "Tetragrammaton"}]
```

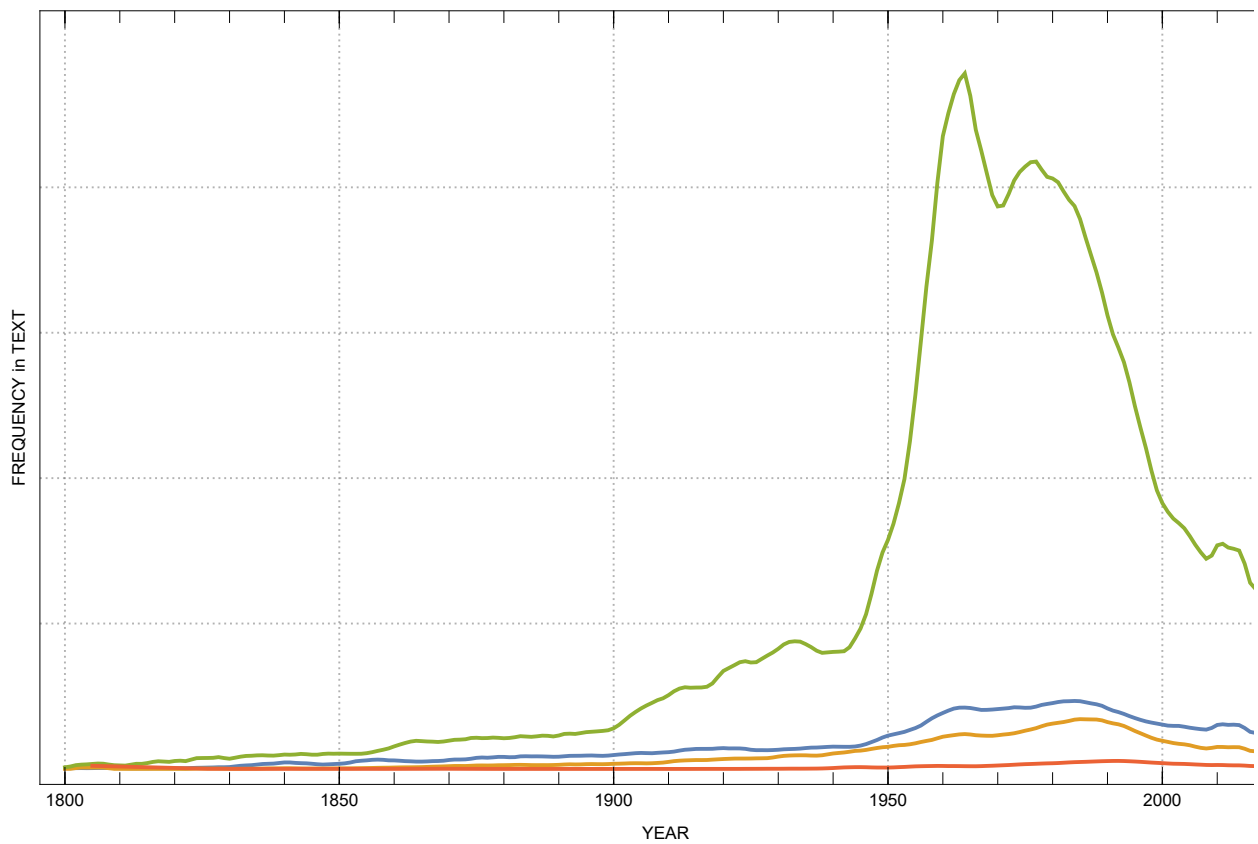

Out[]:=



Heat Transfer

In[]:= WordFrequencyPlot[{"conduction", "convection", "radiation", "advection"}]

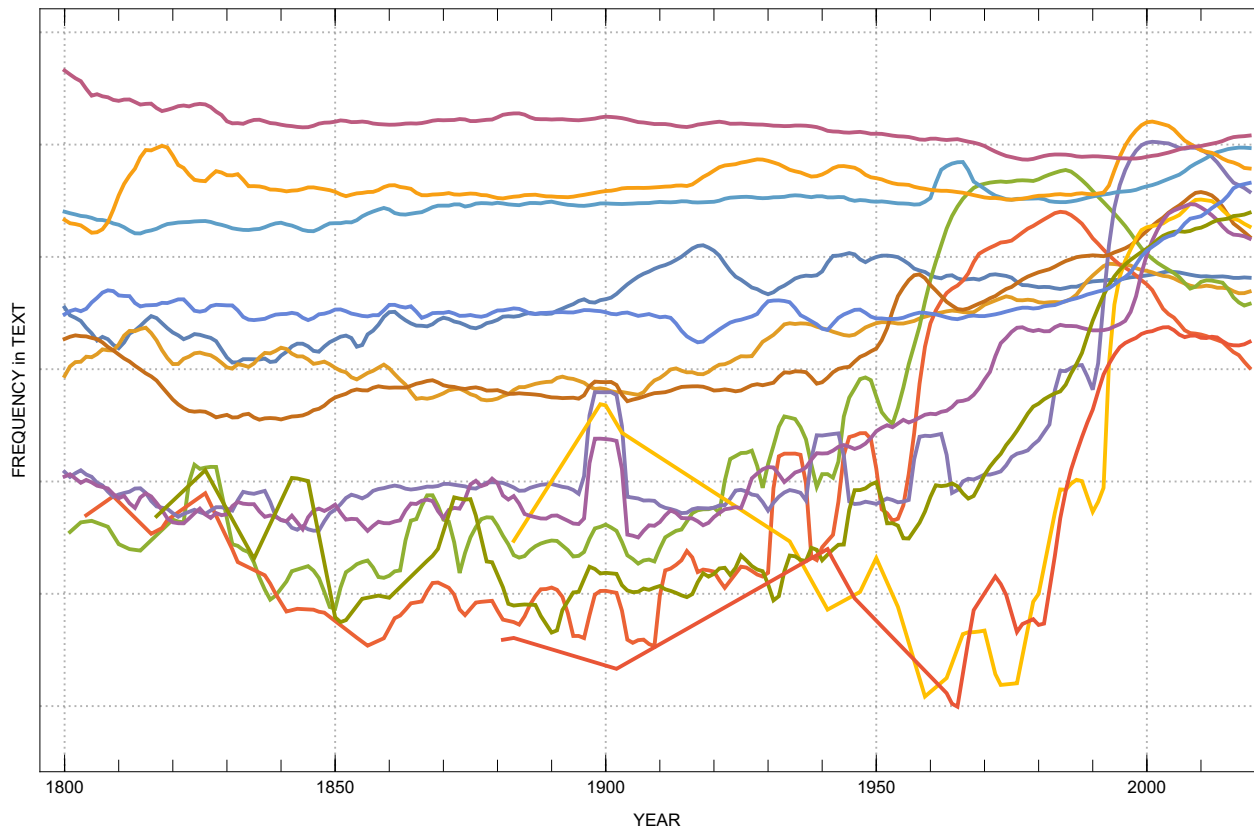
Out[]:=



Mathematical Computing

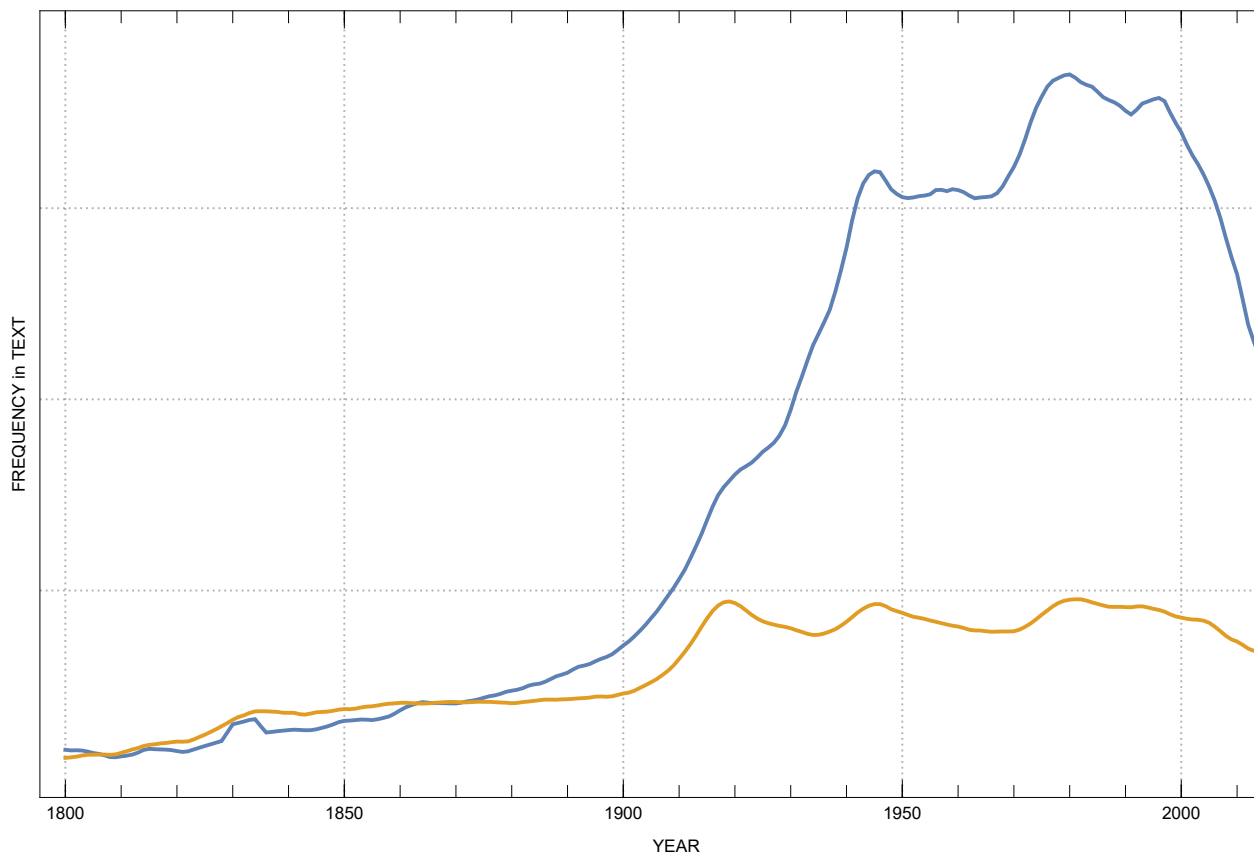
```
In[ ]:= WordFrequencyPlot[{"Wolfram", "Mathematica", "Fortran", "Cobol", "HTML", "CSS", "Ruby",
    "JavaScript", "PHP", "Matlab", "LabVIEW", "Python", "Java", "Swift"}, "Scaling" → "Log"]
```

Out[]:=



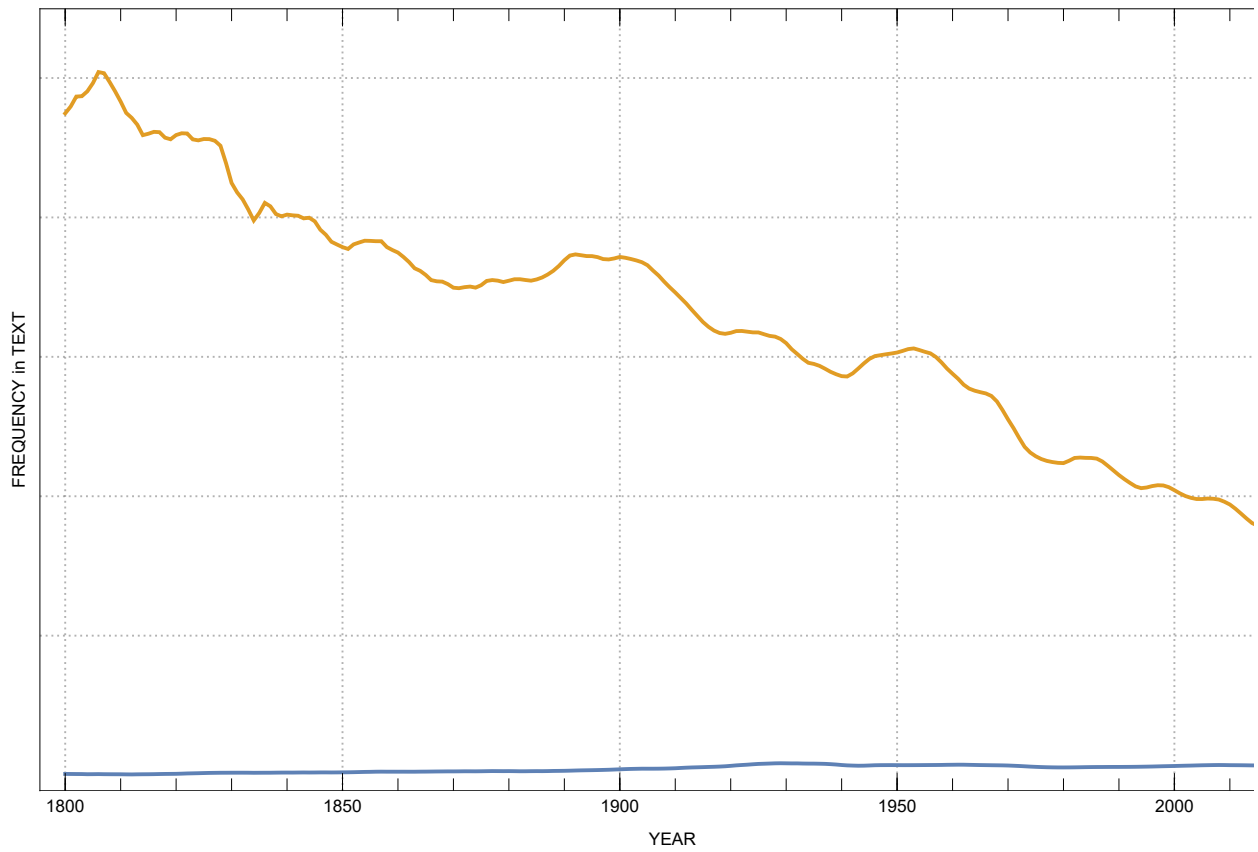
In[]:= WordFrequencyPlot[{"effective", "efficient"}]

Out[]:=



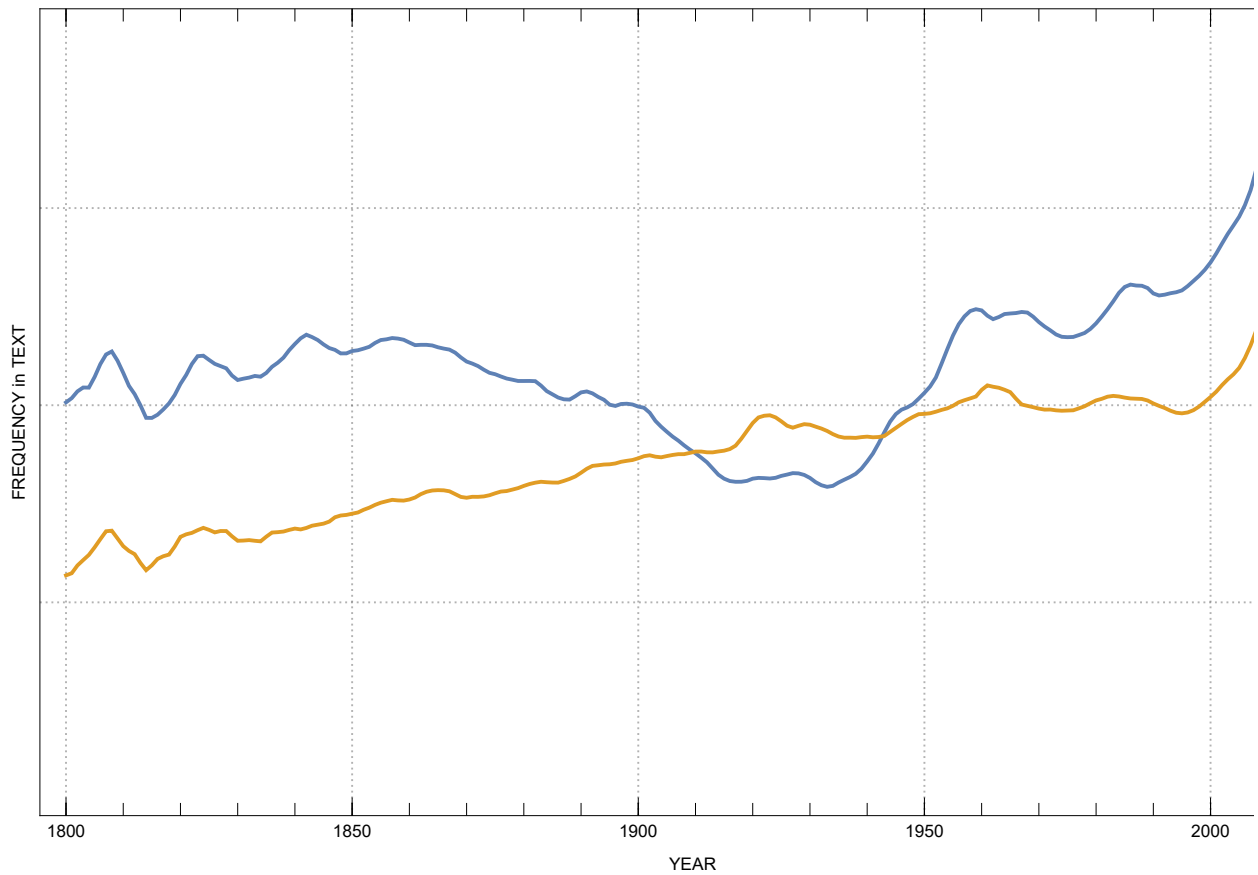
In[]:= WordFrequencyPlot[{"mediocre", "excellent"}]

Out[*n*]:=



In[*n*]:= WordFrequencyPlot[{"fast", "slow"}]

Out[]:=

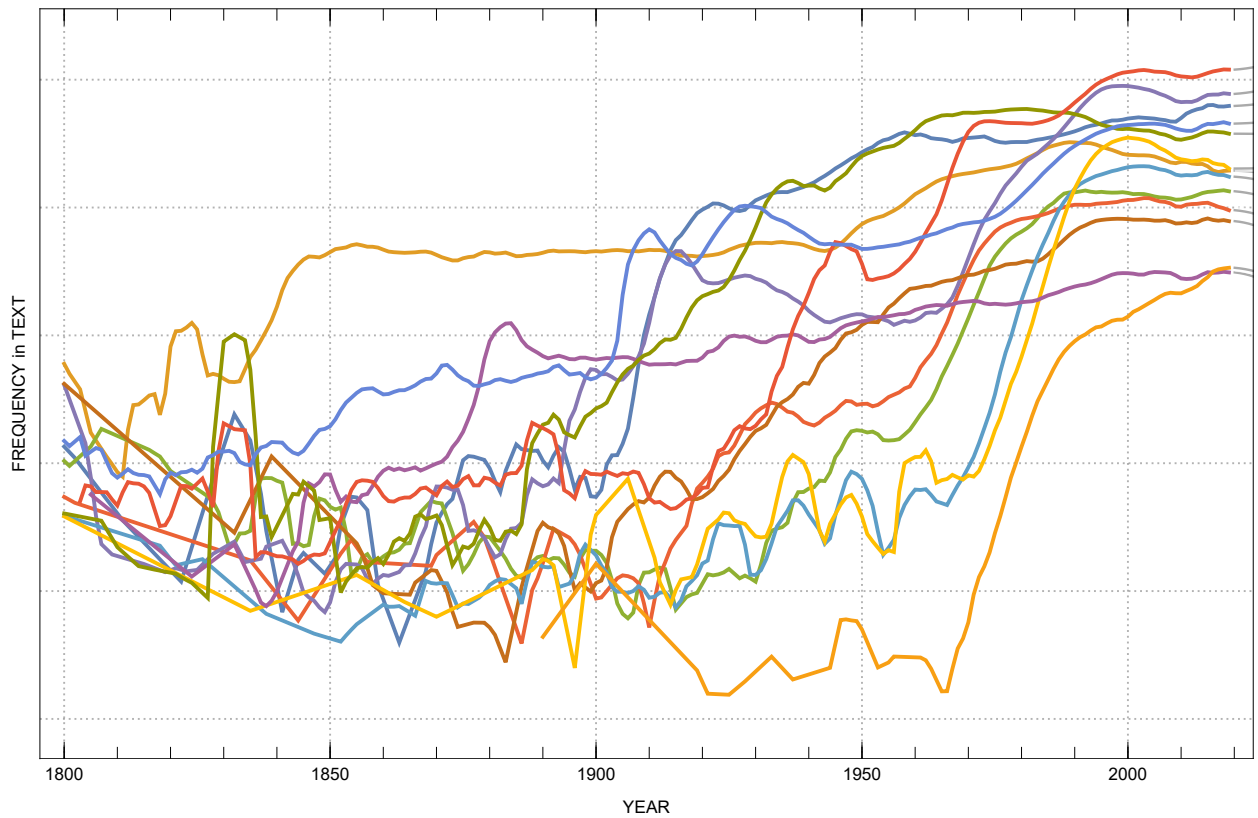


```

In[ ]:= WordFrequencyPlot[{"psychoanalysis", "formalism", "semiotics", "structuralism",
  "feminism", "historicism", "deconstruction", "postmodernism", "aestheticism",
  "Marxism", "racism", "modernism", "narratology"}, "Scaling" → "Log"]

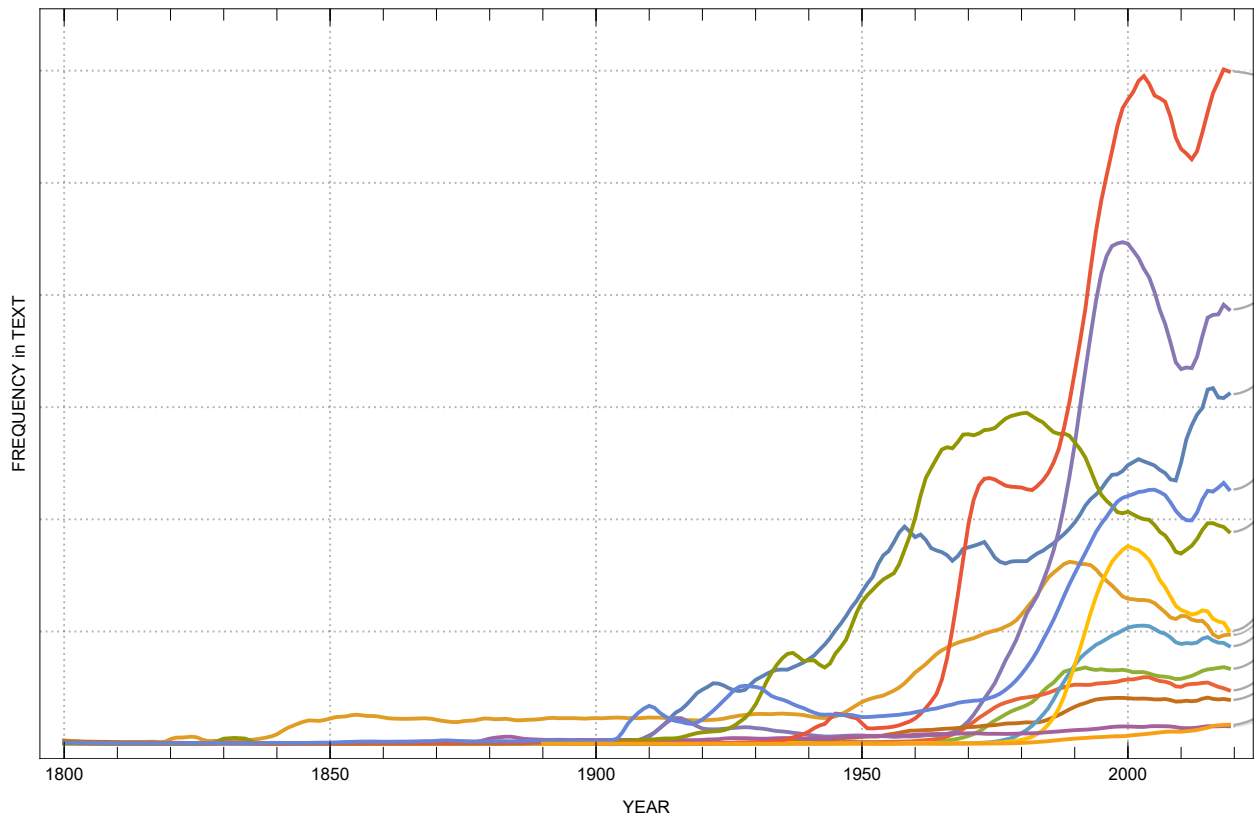
```

Out[]:=



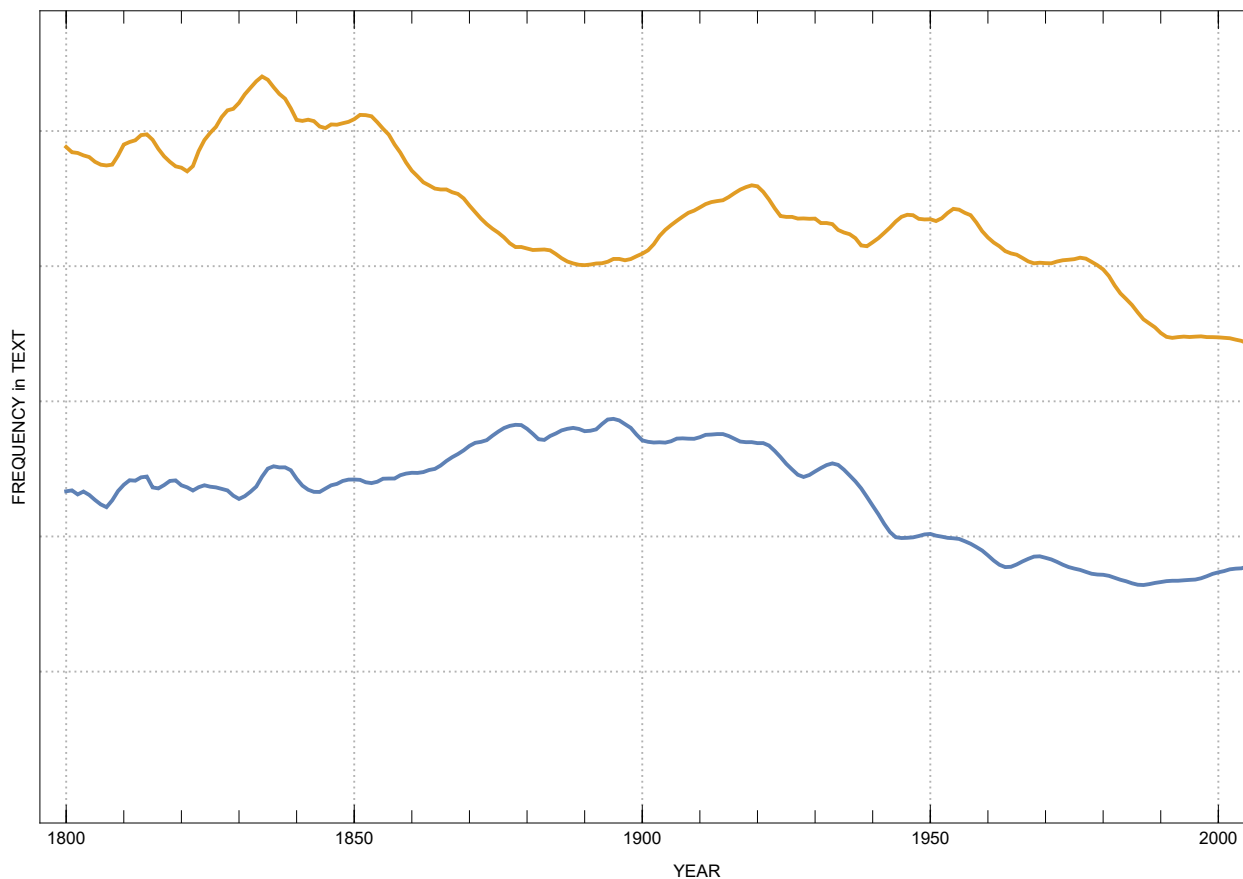
```
In[ ]:= WordFrequencyPlot[{"psychoanalysis", "formalism", "semiotics",
  "structuralism", "feminism", "historicism", "deconstruction", "postmodernism",
  "aestheticism", "Marxism", "racism", "modernism", "narratology"}]
```

Out[]:=



In[]:= WordFrequencyPlot[{"money", "power"}]

Out[]=



```
In[ ]:= wordlist = {"psychoanalysis", "formalism", "semiotics",
    "structuralism", "feminism", "historicism", "deconstruction",
    "postmodernism", "aestheticism", "Marxism", "racism", "modernism"};

worddef = Map[WordDefinition, wordlist];

wordtable = Transpose[{wordlist, worddef}] // TableForm

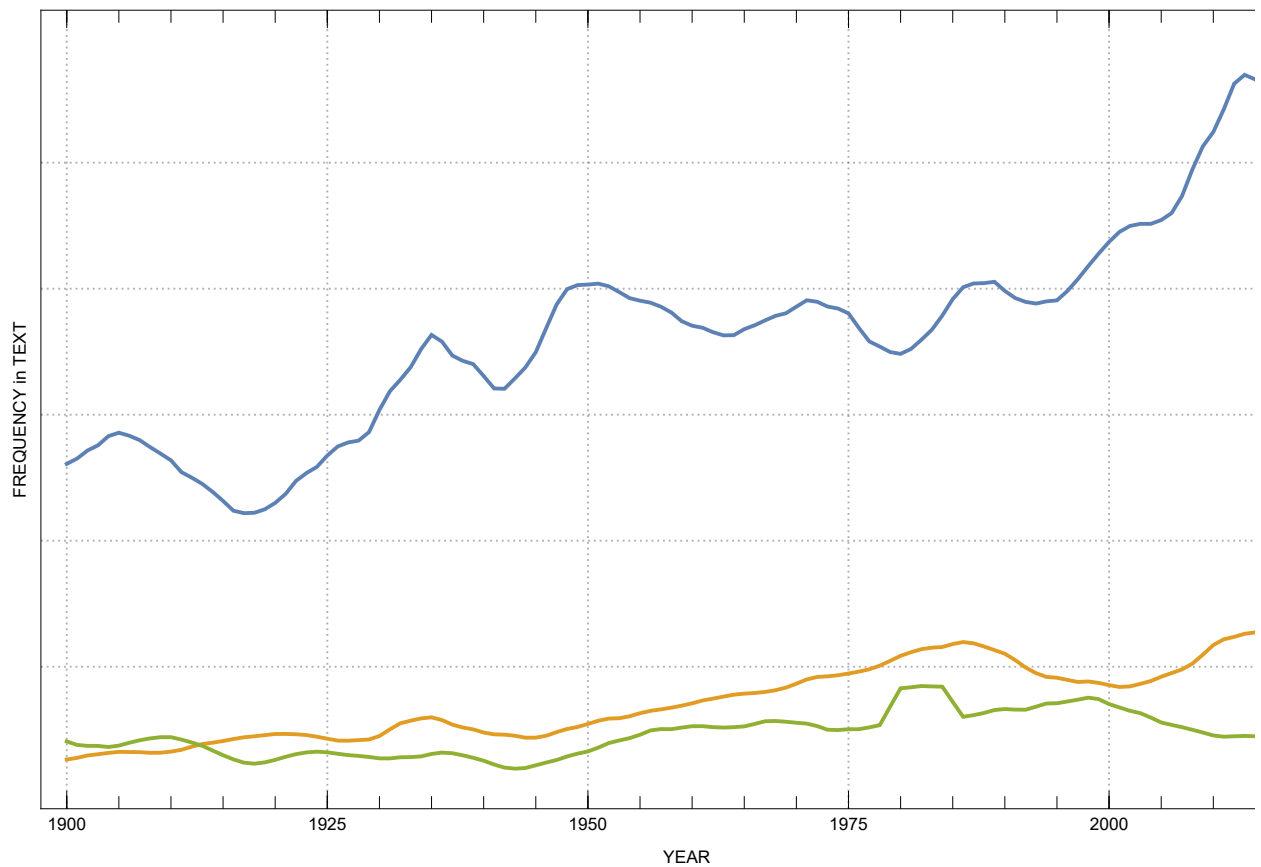
(* (*Specifytheexportdirectoryandfilename*)
exportDirectory="C:\\Users\\yujie\\OneDrive\\Desktop";
exportFileName="word_table.png";
(*Exportthetableasanimage*)
Export[FileNameJoin[{exportDirectory,exportFileName}],wordtable,ImageResolution->600];*)
```

Out[]//TableForm=

psychoanalysis	a set of techniques for exploring underlying motives and a method of treating
formalism	the practice of scrupulous adherence to prescribed or external forms
semiotics	the doctrine that formal structure rather than content is what should be (philosophy) the philosophical theory that formal (logical or mathematical)
structuralism	(philosophy) a philosophical theory of the functions of signs and symbols a sociological theory based on the premise that society comes before individuals
feminism	an anthropological theory that there are unobservable social structures and linguistics defined as the analysis of formal structures in a text or discourse
historicism	the movement aimed at equal rights for women
deconstruction	a doctrine that advocates equal rights for women
postmodernism	a theory that social and cultural events are determined by history
aestheticism	a philosophical theory of criticism (usually of literature or film) that
Marxism	genre of art and literature and especially architecture in reaction against
racism	Missing[UnknownWord]
modernism	the economic and political theories of Karl Marx and Friedrich Engels the
	discriminatory or abusive behavior towards members of another race
	the prejudice that members of one race are intrinsically superior to members
	practices typical of contemporary life or thought
	genre of art and literature that makes a self-conscious break with previous
	the quality of being current or of the present

In[]:= WordFrequencyPlot[{"racing", "F1", "prix"}, "YearStart" → 1900]

Out[]:=



```

wordlist = {"psychoanalysis", "formalism", "semiotics",
            "structuralism", "feminism", "historicism", "deconstruction",
            "postmodernism", "aestheticism", "Marxism", "racism", "modernism"};

worddef = Map[WordDefinition, wordlist];

wordtable = Transpose[{wordlist, worddef}] // TableForm

(*(*Specifytheexportdirectoryandfilename*)
exportDirectory="C:\\Users\\yujie\\OneDrive\\Desktop";
exportFileName="word_table.png";
(*Exportthetableasanimage*)
Export[FileNameJoin[{exportDirectory,exportFileName}],wordtable,ImageResolution->600];*)

```

```

In[*]:= wordtable =
  TableForm[Transpose[{wordlist, Map[WordDefinition, {"psychoanalysis", "formalism",
    "semiotics", "structuralism", "feminism", "historicism", "deconstruction",
    "postmodernism", "aestheticism", "Marxism", "racism", "modernism"}]}]]

```

```

Out[*]//TableForm=

```

psychoanalysis	a set of techniques for exploring underlying motives and a method of treating
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	discriminatory or abusive behavior towards members of another race
	the prejudice that members of one race are intrinsically superior to members of another
	practices typical of contemporary life or thought
	genre of art and literature that makes a self-conscious break with previous
	the quality of being current or of the present