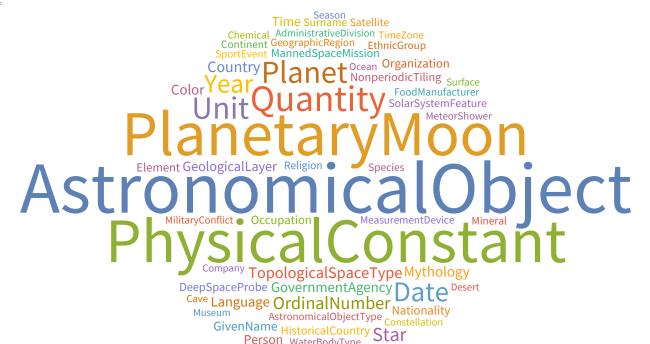
Text Analysis with Wikipedia

Examples of natural language processing text processing of a Wikipedia article for a quick summary.

```
In[@]:= moon = WikipediaData["Moon"];
 In[*]:= Snippet[moon, 5]
Out[0]=
        The Moon is Earth's only natural satellite. It orbits at an average distance of
         384400 km (238900 mi), about 30 times the planet's diameter. The Moon always
         presents the same side to Earth, because gravitational pull has locked its
         rotation to the planet. This results in the lunar day of 29.5 days matching the
         lunar month. The Moon's gravitational pull - and to a lesser extent the Sun's -
 In[⊕]:= contents = TextContents[moon, VerifyInterpretation → True];
         Loading Initialization Data...
         Loading Initialization Data...
 In[*]:= counts = ReverseSort@CountsBy[contents, Type &]
Out[@]=
        Dataset [Association [AstronomicalObject → 463, PlanetaryMoon → 392, PhysicalConstant → 389,
            Quantity \rightarrow 197, Unit \rightarrow 161, Planet \rightarrow 158, Date \rightarrow 133, Year \rightarrow 121, Star \rightarrow 69,
            Ordinal Number \rightarrow 56, \ Topological Space Type \rightarrow 42, \ Country \rightarrow 40, \ Mythology \rightarrow 34,
            Color \rightarrow 32, GovernmentAgency \rightarrow 32, Language \rightarrow 30, GeologicalLayer \rightarrow 27, Time \rightarrow 24,
            Person \rightarrow 23, GivenName \rightarrow 21, Nationality \rightarrow 17, Organization \rightarrow 16, Occupation \rightarrow 16,
            Element \rightarrow 16, DeepSpaceProbe \rightarrow 14, HistoricalCountry \rightarrow 13, NonperiodicTiling \rightarrow 13,
            MannedSpaceMission \rightarrow 12, Food \rightarrow 10, SolarSystemFeature \rightarrow 9, Surname \rightarrow 8, Religion \rightarrow 7,
            Species \rightarrow 7, Satellite \rightarrow 7, Mineral \rightarrow 7, Continent \rightarrow 6, MeasurementDevice \rightarrow 5,
            SportEvent \rightarrow 5, EthnicGroup \rightarrow 5, AstronomicalObjectType \rightarrow 4, FoodManufacturer \rightarrow 4,
            GeographicRegion \rightarrow 4, MeteorShower \rightarrow 3, MilitaryConflict \rightarrow 2, TimeZone \rightarrow 2, Season \rightarrow 2,
            Chemical \rightarrow 2, WaterBodyType \rightarrow 2, MusicWork \rightarrow 1, Company \rightarrow 1, Museum \rightarrow 1, Constellation \rightarrow 1,
            Desert \rightarrow 1, Ocean \rightarrow 1, USState \rightarrow 1, AdministrativeDivision \rightarrow 1, Surface \rightarrow 1, Cave \rightarrow 1],
          TypeSystem`Assoc[TypeSystem`Atom[String], TypeSystem`Atom[Integer],
            TypeSystem`AnyLength], Association[]]
 In[*]:= Show[WordCloud[counts], ImageSize → Full]
```

Out[0]=

Out[0]=



In[@]:= Normal[Select[contents, Type === "Person" &] [All, "String"]]

{Anaxagoras, Aristotle, Archimedes, Seleucus of Seleucia, Ptolemy, Aryabhata, Alhazen, Galileo Galilei, Thomas Harriot, Giovanni Battista Riccioli, Francesco Maria Grimaldi, Wilhelm Beer, Johann Heinrich Mädler, Galileo, Richard Proctor, Grove Karl Gilbert, President John F. Kennedy, Neil Armstrong, Alice Gorman, Virgin Mary, Muhammad, Aristotle, Pliny the Elder}

Person WaterBodyType

MusicWork USState Food

In[a]:= persons = Normal[Select[contents, Type === "Person" &] [All, "Interpretation"]]] Out[0]=

Aristotle Archimedes Seleucus of Seleucia Ptolemy Anaxagoras Aryabhata Alhazen Galileo Galilei Thomas Harriot , Giovanni Riccioli , Francesco Maria Grimaldi Wilhelm Beer Johann Heinrich von Mädler , Galileo Galilei , Richard Anthony Proctor Grove Karl Gilbert John F. Kennedy Neil Armstrong, Alice Gorman, Virgin Mary Muhammad Aristotle, Pliny the Elder

In[@]:= WordCloud[Counts[Flatten@EntityValue[persons, EntityProperty["Person", "Occupation"]]]]

Out[0]=

