

Timeline Analysis

Analysis of conflicts discussed based on a podcast transcript

We can import Wikipedia data of human history.

```
In[*]:= webpage = WikipediaData["human history"];
```

In[*]:= contents = TextContents[webpage, VerifyInterpretation → True]

Out[*]=

String	Type
Africa	Continent
Africa	EthnicGroup
Africa	GeographicRegion
Africa	GovernmentAgency
300,000 years	Quantity
years	Unit
Africa	Continent
Africa	EthnicGroup
Africa	GeographicRegion
Africa	GovernmentAgency
Ice	Cave
Earth	Planet
Ice	Cave
Ice	GovernmentAgency
12	Time
12,000 years	Quantity
years	Unit
Agricultural Revolution	MilitaryConflict
river	WaterBodyType
Bronze	Color
⏏ ⏏ rows 1–20 of 2117 ⏏ ⏏	

We can then find how many historical countries there are.

```
In[ ]:= counts = ReverseSort@CountsBy[contents, #Type &]
```

```
Out[ ]:=
```

Species	19
AdministrativeDivision	18
City	16
Organization	15
TopologicalSpaceType	12
Island	11
Ocean	10
Occupation	9
Mineral	9
PhysicalConstant	8
River	7
Surname	5
AstronomicalObjectType	5
Time	5
Book	4
Element	4
Plant	4
WaterBodyType	4
Cave	4
HistoricalEvent	3

Historical entries are then compiled as interpreted entities.

This code is copied and modified from Vitaly Kaurov of Wolfram Research without his permission.

The source of the code is here: <https://community.wolfram.com/groups/-/m/t/852277>

The only thing I did is to modify the code so that a more curated selection of historical countries is done.

The Wikipedia page for human history is selected.

This is because the Wikipedia page provides a better curation, as opposed to using a randomly sampling of events.

```
In[ ]:= hc = Normal[Select[contents, #Type === "HistoricalCountry" &] [[All, "Interpretation"]]]
```

```
Out[ ]:=
```

```
{ Indus Valley civilization (3000 BC - 1500 BC) , Sumer (5300 BC - 1940 BC) ,
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Lower Egypt (4000 BC - 3100 BC) , Indus Valley civilization (3000 BC - 1500 BC) ,
 Akkad (2330 BC - 2200 BC) , Minoan civilization (2700 BC - 1450 BC) , Moche (100 AD - 800 AD) ,
 Nazca (300 BC - 800 AD) , Nazca (300 BC - 800 AD) , Teotihuacan Empire (50 AD - 750 AD) ,
 Persian Empire (728 BC - 330 BC) , Persian Empire (728 BC - 330 BC) ,
 Macedonia (807 BC - 168 BC) , Media (625 BC - 549 BC) , Assyria (2000 BC - 612 BC) ,
 Scythia (700 BC - 100 AD) , Babylonia (1830 BC - 1530 BC) , Assyria (2000 BC - 612 BC) ,
 Media (625 BC - 549 BC) , Media (625 BC - 549 BC) , Persian Empire (728 BC - 330 BC) ,
 Parthia (245 BC - 224 AD) , Delian League (478 BC - 404 BC) , Delian League (478 BC - 404 BC) ,
 Macedonia (807 BC - 168 BC) , Maurya Empire (322 BC - 185 BC) ,
 Gupta Empire (320 AD - 550 AD) , Chola Empire (848 AD - 1279) ,
 Pandyan Kingdom (300 BC - 920 AD) , Roman Republic (509 BC - 27 BC) ,
 Western Roman Empire (395 AD - 476 AD) , Byzantine Empire (395 AD - 1453) ,
 Byzantine Empire (395 AD - 1453) , Ottoman Empire (1299 - 1923) ,
 Byzantine Empire (395 AD - 1453) , Roman Empire (27 BC - 395 AD) , StateHan (403 BC - 230 BC) ,
 StateHan (403 BC - 230 BC) , Axum (100 AD - 940 AD) , Zapotec (525 BC - 1527) ,
 Teotihuacan Empire (50 AD - 750 AD) , Roman Republic (509 BC - 27 BC) ,
 Roman Empire (27 BC - 395 AD) , Roman Empire (27 BC - 395 AD) , StateHan (403 BC - 230 BC) ,
 Three Kingdoms (220 AD - 280 AD) , Roman Republic (509 BC - 27 BC) ,
 Roman Empire (27 BC - 395 AD) , Western Roman Empire (395 AD - 476 AD) ,
 Roman Empire (27 BC - 395 AD) , Byzantine Empire (395 AD - 1453) ,
 Roman Empire (27 BC - 395 AD) , Holy Roman Empire (962 AD - 1806) ,
 Three Kingdoms (220 AD - 280 AD) , Western Roman Empire (395 AD - 476 AD) ,
 Ottoman Empire (1299 - 1923) , Aztec Empire (1428 - 1521) , Inca Empire (1438 - 1533) ,
 Byzantine Empire (395 AD - 1453) , Byzantine Empire (395 AD - 1453) ,
 Byzantine Empire (395 AD - 1453) , Seljuk Empire (1037 AD - 1194 AD) ,
 Ottoman Empire (1299 - 1923) , Byzantine Empire (395 AD - 1453) ,
 Rashidun Caliphate (632 AD - 661 AD) , Seljuk Empire (1037 AD - 1194 AD) ,
 Umayyad Caliphate (661 AD - 750 AD) , Samanid Empire (819 AD - 999 AD) ,

Timurid Empire (1363 - 1506) , Western Roman Empire (395 AD - 476 AD) ,
 Roman Republic (509 BC - 27 BC) , Frankish Empire (450 AD - 843 AD) ,
 Frankish Empire (450 AD - 843 AD) , Crusader States (1098 AD - 1489) ,
 Kingdom of Lithuania (1251 - 1263) , Axum (100 AD - 940 AD) , Songhai (1375 - 1591) ,
 Great Zimbabwe (1220 - 1450) , Gupta Empire (320 AD - 550 AD) , Chola Empire (848 AD - 1279) ,
 Tibet (1912 - 1950) , Ashikaga Shogunate (1338 - 1573) , Three Kingdoms (220 AD - 280 AD) ,
 Goguryeo (37 BC - 668 AD) , Baekje (18 BC - 660 AD) , Silla (57 BC - 935 AD) ,
 Silla (57 BC - 935 AD) , Baekje (18 BC - 660 AD) , Goguryeo (37 BC - 668 AD) ,
 Unified Silla (668 AD - 935 AD) , Balhae (698 AD - 926 AD) , Goguryeo (37 BC - 668 AD) ,
 Goguryeo (37 BC - 668 AD) , Historical Korea (918 AD - 1897) , Historical Korea (918 AD - 1897) ,
 Mongol Empire (1206 - 1368) , Mongol Empire (1206 - 1368) , Funan (68 AD - 550 AD) ,
 Khmer Empire (802 AD - 1431) , Sukhothai Kingdom (1238 - 1438) , Srivijaya (250 AD - 1350) ,
 Champa (192 AD - 1832) , Majapahit (1293 - 1527) , Malacca Sultanate (1402 - 1511) ,
 Cahokia (650 AD - 1400) , Teotihuacan Empire (50 AD - 750 AD) ,
 Aztec Empire (1428 - 1521) , Inca Empire (1438 - 1533) , Inca Empire (1438 - 1533) ,
 Cusco (1195 AD - 1438) , Inca Empire (1438 - 1533) , Ottoman Empire (1299 - 1923) ,
 Safavid Empire (1501 - 1736) , Qajar Empire (1794 - 1925) , Safavid Empire (1501 - 1736) ,
 Mughal Empire (1526 - 1858) , Safavid Empire (1501 - 1736) , Russian Empire (1721 - 1917) ,
 Timurid Empire (1363 - 1506) , Polish-Lithuanian Commonwealth (1569 - 1795) ,
 Songhai (1375 - 1591) , Ethiopian Empire (1000 AD - 1974) , Ashanti Empire (1670 - 1902) ,
 Mughal Empire (1526 - 1858) , Mughal Empire (1526 - 1858) , Mughal Empire (1526 - 1858) ,
 British India (1858 - 1947) , Kingdom of Benin (1440 - 1897) , Historical Korea (918 AD - 1897) ,
 Malacca Sultanate (1402 - 1511) , French Indochina (1887 - 1953) ,
 Kingdom of Hawaii (1795 - 1893) , Aztec Empire (1428 - 1521) , Inca Empire (1438 - 1533) ,
 United Kingdom of Great Britain (1707 - 1801) , French Indochina (1887 - 1953) ,
 Dutch East Indies (1800 - 1942) , Ottoman Empire (1299 - 1923) ,
 Austria-Hungary (1867 - 1918) , Assyria (2000 BC - 612 BC) , Assyria (2000 BC - 612 BC) ,
 Ottoman Empire (1299 - 1923) , Union of Soviet Socialist Republics (1922 - 1991) ,

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North Vietnam (1945 - 1976) , Union of Soviet Socialist Republics (1922 - 1991) ,
Union of Soviet Socialist Republics (1922 - 1991) , Union of Soviet Socialist Republics (1922 - 1991) }

```

Now we identify the start dates and end dates of the historical countries.

```

In[ ]:= startend = DeleteMissing[
  EntityValue[hc, {"Entity", EntityProperty["HistoricalCountry", "StartDate"],
    EntityProperty["HistoricalCountry", "EndDate"]}], 1, 2];
startend = DeleteCases[startend, {_, _, _Alternatives}]

```

Out[]:=

```

{ { Indus Valley civilization (3000 BC - 1500 BC) , Year: -3000 , Year: -1500 } ,
  { Sumer (5300 BC - 1940 BC) , Year: -5300 , Year: -1940 } ,
  { Lower Egypt (4000 BC - 3100 BC) , Year: -4000 , Year: -3100 } ,
  { Indus Valley civilization (3000 BC - 1500 BC) , Year: -3000 , Year: -1500 } ,
  { Akkad (2330 BC - 2200 BC) , Year: -2330 , Year: -2200 } ,
  { Minoan civilization (2700 BC - 1450 BC) , Year: -2700 , Year: -1450 } ,
  { Moche (100 AD - 800 AD) , Year: 100 , Year: 800 } ,
  { Nazca (300 BC - 800 AD) , Year: -300 , Year: 800 } ,
  { Nazca (300 BC - 800 AD) , Year: -300 , Year: 800 } ,
  { Teotihuacan Empire (50 AD - 750 AD) , Year: 50 , Year: 750 } ,
  { Persian Empire (728 BC - 330 BC) , Year: -728 , Year: -330 } ,
  { Persian Empire (728 BC - 330 BC) , Year: -728 , Year: -330 } ,
  { Macedonia (807 BC - 168 BC) , Year: -807 , Year: -168 } ,
  { Media (625 BC - 549 BC) , Year: -625 , Year: -549 } ,
  { Assyria (2000 BC - 612 BC) , Year: -2000 , Year: -612 } ,
  { Scythia (700 BC - 100 AD) , Year: -700 , Year: 100 } ,
  { Babylonia (1830 BC - 1530 BC) , Year: -1830 , Year: -1530 } ,
  { Assyria (2000 BC - 612 BC) , Year: -2000 , Year: -612 } ,
  { Media (625 BC - 549 BC) , Year: -625 , Year: -549 } ,
  { Media (625 BC - 549 BC) , Year: -625 , Year: -549 } ,
  { Persian Empire (728 BC - 330 BC) , Year: -728 , Year: -330 } ,
  { Parthia (245 BC - 224 AD) , Year: -245 , Year: 224 } ,

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{ Delian League (478 BC - 404 BC) , Year: -478 , Year: -404 } ,

{ Delian League (478 BC - 404 BC) , Year: -478 , Year: -404 } ,

{ Macedonia (807 BC - 168 BC) , Year: -807 , Year: -168 } ,

{ Maurya Empire (322 BC - 185 BC) , Year: -322 , Year: -185 } ,

{ Gupta Empire (320 AD - 550 AD) , Year: 320 , Year: 550 } ,

{ Chola Empire (848 AD - 1279) , Year: 848 , Year: 1279 } ,

{ Pandyan Kingdom (300 BC - 920 AD) , Year: -300 , Year: 920 } ,

{ Roman Republic (509 BC - 27 BC) , Year: -509 , Wed 16 Jan -27 } ,

{ Western Roman Empire (395 AD - 476 AD) , Year: 395 , Year: 476 } ,

{ Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,

{ Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,

{ Ottoman Empire (1299 - 1923) , Year: 1299 , Mon 29 Oct 1923 } ,

{ Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,

{ Roman Empire (27 BC - 395 AD) , Wed 16 Jan -27 , Year: 395 } ,

{ StateHan (403 BC - 230 BC) , Year: -403 , Year: -230 } ,

{ StateHan (403 BC - 230 BC) , Year: -403 , Year: -230 } ,

{ Axum (100 AD - 940 AD) , Year: 100 , Year: 940 } ,

{ Zapotec (525 BC - 1527) , Year: -525 , Year: 1527 } ,

{ Teotihuacan Empire (50 AD - 750 AD) , Year: 50 , Year: 750 } ,

{ Roman Republic (509 BC - 27 BC) , Year: -509 , Wed 16 Jan -27 } ,

{ Roman Empire (27 BC - 395 AD) , Wed 16 Jan -27 , Year: 395 } ,

{ Roman Empire (27 BC - 395 AD) , Wed 16 Jan -27 , Year: 395 } ,

{ StateHan (403 BC - 230 BC) , Year: -403 , Year: -230 } ,

{ Three Kingdoms (220 AD - 280 AD) , Year: 220 , Year: 280 } ,

{ Roman Republic (509 BC - 27 BC) , Year: -509 , Wed 16 Jan -27 } ,

{ Roman Empire (27 BC - 395 AD) , Wed 16 Jan -27 , Year: 395 } ,

{ Western Roman Empire (395 AD - 476 AD) , Year: 395 , Year: 476 } ,

{ Roman Empire (27 BC - 395 AD) , Wed 16 Jan -27 , Year: 395 } ,

{ Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,
 { Roman Empire (27 BC - 395 AD) , Wed 16 Jan -27 , Year: 395 } ,
 { Holy Roman Empire (962 AD - 1806) , Sun 2 May 962 , Thu 6 Nov 1806 } ,
 { Three Kingdoms (220 AD - 280 AD) , Year: 220 , Year: 280 } ,
 { Western Roman Empire (395 AD - 476 AD) , Year: 395 , Year: 476 } ,
 { Ottoman Empire (1299 - 1923) , Year: 1299 , Mon 29 Oct 1923 } ,
 { Aztec Empire (1428 - 1521) , Year: 1428 , Sat 13 Aug 1521 } ,
 { Inca Empire (1438 - 1533) , Year: 1438 , Year: 1533 } ,
 { Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,
 { Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,
 { Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,
 { Seljuk Empire (1037 AD - 1194 AD) , Year: 1037 , Year: 1194 } ,
 { Ottoman Empire (1299 - 1923) , Year: 1299 , Mon 29 Oct 1923 } ,
 { Byzantine Empire (395 AD - 1453) , Year: 395 , Sun 29 May 1453 } ,
 { Rashidun Caliphate (632 AD - 661 AD) , Year: 632 , Year: 661 } ,
 { Seljuk Empire (1037 AD - 1194 AD) , Year: 1037 , Year: 1194 } ,
 { Umayyad Caliphate (661 AD - 750 AD) , Year: 661 , Year: 750 } ,
 { Samanid Empire (819 AD - 999 AD) , Year: 819 , Year: 999 } ,
 { Timurid Empire (1363 - 1506) , Year: 1363 , Year: 1506 } ,
 { Western Roman Empire (395 AD - 476 AD) , Year: 395 , Year: 476 } ,
 { Roman Republic (509 BC - 27 BC) , Year: -509 , Wed 16 Jan -27 } ,
 { Frankish Empire (450 AD - 843 AD) , Year: 450 , Year: 843 } ,
 { Frankish Empire (450 AD - 843 AD) , Year: 450 , Year: 843 } ,
 { Crusader States (1098 AD - 1489) , Year: 1098 , Year: 1489 } ,
 { Kingdom of Lithuania (1251 - 1263) , Mon 17 Jul 1251 , Year: 1263 } ,
 { Axum (100 AD - 940 AD) , Year: 100 , Year: 940 } ,
 { Songhai (1375 - 1591) , Year: 1375 , Year: 1591 } ,
 { Great Zimbabwe (1220 - 1450) , Year: 1220 , Year: 1450 } ,

{ Gupta Empire (320 AD - 550 AD) , Year: 320 , Year: 550 } ,
 { Chola Empire (848 AD - 1279) , Year: 848 , Year: 1279 } ,
 { Tibet (1912 - 1950) , Year: 1912 , Year: 1950 } ,
 { Ashikaga Shogunate (1338 - 1573) , Mon 11 Aug 1338 , Sun 2 Sep 1573 } ,
 { Three Kingdoms (220 AD - 280 AD) , Year: 220 , Year: 280 } ,
 { Goguryeo (37 BC - 668 AD) , Year: -37 , Year: 668 } ,
 { Baekje (18 BC - 660 AD) , Year: -18 , Wed 18 Jul 660 } ,
 { Silla (57 BC - 935 AD) , Year: -57 , Year: 935 } ,
 { Silla (57 BC - 935 AD) , Year: -57 , Year: 935 } ,
 { Baekje (18 BC - 660 AD) , Year: -18 , Wed 18 Jul 660 } ,
 { Goguryeo (37 BC - 668 AD) , Year: -37 , Year: 668 } ,
 { Unified Silla (668 AD - 935 AD) , Year: 668 , Year: 935 } ,
 { Balhae (698 AD - 926 AD) , Year: 698 , Mon 14 Jan 926 } ,
 { Goguryeo (37 BC - 668 AD) , Year: -37 , Year: 668 } ,
 { Goguryeo (37 BC - 668 AD) , Year: -37 , Year: 668 } ,
 { Historical Korea (918 AD - 1897) , Year: 918 , Year: 1897 } ,
 { Historical Korea (918 AD - 1897) , Year: 918 , Year: 1897 } ,
 { Mongol Empire (1206 - 1368) , Year: 1206 , Year: 1368 } ,
 { Mongol Empire (1206 - 1368) , Year: 1206 , Year: 1368 } ,
 { Funan (68 AD - 550 AD) , Year: 68 , Year: 550 } ,
 { Khmer Empire (802 AD - 1431) , Year: 802 , Year: 1431 } ,
 { Sukhothai Kingdom (1238 - 1438) , Year: 1238 , Year: 1438 } ,
 { Srivijaya (250 AD - 1350) , Year: 250 , Year: 1350 } ,
 { Champa (192 AD - 1832) , Year: 192 , Year: 1832 } ,
 { Majapahit (1293 - 1527) , Fri 20 Nov 1293 , Year: 1527 } ,
 { Malacca Sultanate (1402 - 1511) , Year: 1402 , Year: 1511 } ,
 { Cahokia (650 AD - 1400) , Year: 650 , Year: 1400 } ,
 { Teotihuacan Empire (50 AD - 750 AD) , Year: 50 , Year: 750 } ,

{ Aztec Empire (1428 - 1521) , Year: 1428 , Sat 13 Aug 1521 } ,
 { Inca Empire (1438 - 1533) , Year: 1438 , Year: 1533 } ,
 { Inca Empire (1438 - 1533) , Year: 1438 , Year: 1533 } ,
 { Cusco (1195 AD - 1438) , Year: 1195 , Year: 1438 } ,
 { Inca Empire (1438 - 1533) , Year: 1438 , Year: 1533 } ,
 { Ottoman Empire (1299 - 1923) , Year: 1299 , Mon 29 Oct 1923 } ,
 { Safavid Empire (1501 - 1736) , Year: 1501 , Year: 1736 } ,
 { Qajar Empire (1794 - 1925) , Year: 1794 , Year: 1925 } ,
 { Safavid Empire (1501 - 1736) , Year: 1501 , Year: 1736 } ,
 { Mughal Empire (1526 - 1858) , Wed 21 Apr 1526 , Sun 20 Jun 1858 } ,
 { Safavid Empire (1501 - 1736) , Year: 1501 , Year: 1736 } ,
 { Russian Empire (1721 - 1917) , Wed 22 Oct 1721 , Wed 7 Nov 1917 } ,
 { Timurid Empire (1363 - 1506) , Year: 1363 , Year: 1506 } ,
 { Polish-Lithuanian Commonwealth (1569 - 1795) , Tue 1 Jul 1569 , Sat 24 Oct 1795 } ,
 { Songhai (1375 - 1591) , Year: 1375 , Year: 1591 } ,
 { Ethiopian Empire (1000 AD - 1974) , Year: 1000 , Year: 1974 } ,
 { Ashanti Empire (1670 - 1902) , Year: 1670 , Jan 1902 } ,
 { Mughal Empire (1526 - 1858) , Wed 21 Apr 1526 , Sun 20 Jun 1858 } ,
 { Mughal Empire (1526 - 1858) , Wed 21 Apr 1526 , Sun 20 Jun 1858 } ,
 { Mughal Empire (1526 - 1858) , Wed 21 Apr 1526 , Sun 20 Jun 1858 } ,
 { British India (1858 - 1947) , Mon 2 Aug 1858 , Fri 15 Aug 1947 } ,
 { Kingdom of Benin (1440 - 1897) , Year: 1440 , Year: 1897 } ,
 { Historical Korea (918 AD - 1897) , Year: 918 , Year: 1897 } ,
 { Malacca Sultanate (1402 - 1511) , Year: 1402 , Year: 1511 } ,
 { French Indochina (1887 - 1953) , Mon 17 Oct 1887 , Mon 9 Nov 1953 } ,
 { Kingdom of Hawaii (1795 - 1893) , Year: 1795 , Tue 17 Jan 1893 } ,
 { Aztec Empire (1428 - 1521) , Year: 1428 , Sat 13 Aug 1521 } ,
 { Inca Empire (1438 - 1533) , Year: 1438 , Year: 1533 } ,

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{ United Kingdom of Great Britain (1707 - 1801) , Sun 1 May 1707 , Thu 1 Jan 1801 } ,
{ French Indochina (1887 - 1953) , Mon 17 Oct 1887 , Mon 9 Nov 1953 } ,
{ Dutch East Indies (1800 - 1942) , Wed 1 Jan 1800 , Mar 1942 } ,
{ Ottoman Empire (1299 - 1923) , Year: 1299 , Mon 29 Oct 1923 } ,
{ Austria-Hungary (1867 - 1918) , Sat 30 Mar 1867 , Thu 31 Oct 1918 } ,
{ Assyria (2000 BC - 612 BC) , Year: -2000 , Year: -612 } ,
{ Assyria (2000 BC - 612 BC) , Year: -2000 , Year: -612 } ,
{ Ottoman Empire (1299 - 1923) , Year: 1299 , Mon 29 Oct 1923 } ,
{ Union of Soviet Socialist Republics (1922 - 1991) , Sat 30 Dec 1922 , Thu 26 Dec 1991 } ,
{ North Vietnam (1945 - 1976) , Sun 2 Sep 1945 , Fri 2 Jul 1976 } ,
{ Union of Soviet Socialist Republics (1922 - 1991) , Sat 30 Dec 1922 , Thu 26 Dec 1991 } ,
{ Union of Soviet Socialist Republics (1922 - 1991) , Sat 30 Dec 1922 , Thu 26 Dec 1991 } ,
{ Union of Soviet Socialist Republics (1922 - 1991) , Sat 30 Dec 1922 , Thu 26 Dec 1991 }

```

We can then plot a timeline of all the historical countries mentioned in this notebook.

```

In[ ]:= TimelinePlot[Association@@
  Thread[EntityValue[startend[All, 1], "Name"] → (Interval /@ startend[All, 2 ;; 3])],
  Filling → Below, FillingStyle → Directive[Opacity[.2], Orange],
  PerformanceGoal → "Speed", ImageSize → Full]

```

```
Out[ ]:=
```

