

Data Science History

<https://www.wolframalpha.com/docs/timeline>

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In[ ]:= Manipulate[DiscoveryBarChart[year],
  {{year, 1994.3799999999999}, Dynamic[range], 2010}, {{range, 1900},
  {1900 → "last century", 1000 → "last millenium", -20000 → "all of history"}},
Initialization → {DiscoveryBarChart[year_] := Labeled[BarChart[
  RotateRight[(Length[Select[#1, #1 < year &]] & ) /@ $ByCountry[[All, 2]] + 0.01,
  ChartBaseStyle → EdgeForm[{Black, Opacity[0.5]}],
  LabelingFunction → "RadialCallout", BaseStyle → {10, FontFamily → "Helvetica"},
  ImageSize → 300, PlotRange → {0, 80},
  PlotLabel → Style[Row[{ToString[Abs[Round[year]]],
  Style[If[year ≥ 0, " AD", " BC"], Gray]}], Bold, 15],
  ChartStyle → RotateRight[$Colors[[All, 2]]], $ColorLegend, Right],
$ByCountry =
  {"Babylon" → {-3500, -3000, -2500, -2150, -1800, -1790, -1700, -500}, "Greece" →
  {-600, -500, -400, -387, -350, -325, -300, -250, -200, -100, 125, 150},
  "Europe" → {550, 1030, 1202, 1230, 1300, 1350,
  1450, 1453, 1582, 1595, 1623, 1627, 1637, 1684, 1688, 1750, 1795,
  1801, 1817, 1837, 1850, 1865, 1869, 1879, 1889, 1910, 1954,
  1993}, "UK" → {1086, 1538, 1602, 1604, 1614, 1654,
  1659, 1662, 1665, 1668, 1686, 1687, 1753, 1755, 1768, 1786, 1796,
  1802, 1830, 1837, 1839, 1847, 1849, 1852, 1860, 1872, 1880,
  1898, 1900, 1910, 1935, 1936, 1937, 1946, 1953, 1954, 1966},
  "US" → {1732, 1785, 1790, 1792, 1844, 1865, 1867, 1868,
  1873, 1876, 1877, 1878, 1878, 1879, 1882, 1886, 1890, 1898,
  1906, 1907, 1913, 1913, 1921, 1926, 1931, 1932,
  1935, 1935, 1936, 1939, 1940, 1940, 1942, 1942, 1945, 1947, 1950,
  1950, 1955, 1955, 1957, 1957, 1960, 1960, 1960, 1962, 1963,
  1963, 1963, 1963, 1964, 1966, 1967, 1968, 1975,
  1980, 1980, 1973, 1973, 1973, 1974, 1985, 1982, 1983, 1984, 1988,
  1989, 1990, 1991, 1991, 1995, 1996, 1998, 2000, 2000, 2001,
  2002, 2003, 2004, 2004, 2009}, "Other" → {-20000, -15000, -2200, -1250, -1150,
  -400, -45, 78, 80, 105, 200, 340, 530, 825, 960, 1403, 1755, 1830, 1994}},
$Colors =
  {"Babylon" → RGBColor[0.5293202105745022, 0.49782558937972077, 0.6742046234836347],
  "Greece" → RGBColor[0.3193865873197528, 0.6416113527122912, 0.6651560234988937],
  "Europe" → RGBColor[0.5401235980773632, 0.6334782940413519, 0.2349279011215381],
  "UK" → RGBColor[0.9275959411001755, 0.49364461738002596, 0.],
  "US" → RGBColor[0.7828030823224231, 0.23186083772030214, 0.],
  "Other" → RGBColor[0.6696879530022125, 0.6696879530022125, 0.6696879530022125]},
$ColorLegend =
  Grid[{{Graphics[{EdgeForm[None], RGBColor[0.5293202105745022, 0.49782558937972077,
```

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0.6742046234836347], Rectangle[{0, 0}], ImageSize → {10, 10},
BaselinePosition → Scaled[-0.08]], Style["Ancient Babylon"]}}, {Graphics[{EdgeForm[
None], RGBColor[0.3193865873197528, 0.6416113527122912, 0.6651560234988937],
Rectangle[{0, 0}], ImageSize → {10, 10},
BaselinePosition → Scaled[-0.08]], Style["Ancient Greece"]}},
{Graphics[{EdgeForm[None], RGBColor[0.5401235980773632,
0.6334782940413519, 0.2349279011215381], Rectangle[{0, 0}],
ImageSize → {10, 10}, BaselinePosition → Scaled[-0.08]],
Style["Continental Europe"]}},
{Graphics[{EdgeForm[None], RGBColor[0.9275959411001755, 0.49364461738002596, 0.],
Rectangle[{0, 0}], ImageSize → {10, 10},
BaselinePosition → Scaled[-0.08]], Style["Britain"]}}, {Graphics[{EdgeForm[None],
RGBColor[0.7828030823224231, 0.23186083772030214, 0.], Rectangle[{0, 0}],
ImageSize → {10, 10}, BaselinePosition → Scaled[-0.08]], Style["United States"]}},
{Graphics[{EdgeForm[None], RGBColor[0.6696879530022125,
0.6696879530022125, 0.6696879530022125], Rectangle[{0, 0}],
ImageSize → {10, 10}, BaselinePosition → Scaled[-0.08]],
Style[Style["other", GrayLevel[0.5]]]}},
Alignment → Left, BaseStyle → FontFamily → "Helvetica", Spacings → 0.4]]]

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Out[]=

