



?????.PNG



-

```
[
  {year: 1884,change: -0.28,},
  {year: 1885,change: -0.32,},
  {year: 1886,change: -0.31,},
  {year: 1887,change: -0.33,},
  {year: 1888,change: -0.2,},
  {year: 1889,change: -0.12,},
  {year: 1890,change: -0.37,},
  {year: 1891,change: -0.24,},
  {year: 1892,change: -0.27,},
  {year: 1893,change: -0.3,},
  {year: 1894,change: -0.31,},
  {year: 1895,change: -0.21,},
  {year: 1896,change: -0.15,},
  {year: 1897,change: -0.11,},
  {year: 1898,change: -0.28,},
  {year: 1899,change: -0.16,},
  {year: 1900,change: -0.09,},
  {year: 1901,change: -0.15,},
  {year: 1902,change: -0.27,},
  {year: 1903,change: -0.35,},
  {year: 1904,change: -0.44,},
```

```
{year: 1905,change: -0.28,},
{year: 1906,change: -0.23,},
{year: 1907,change: -0.4,},
{year: 1908,change: -0.43,},
{year: 1909,change: -0.47,},
{year: 1910,change: -0.42,},
{year: 1911,change: -0.44,},
{year: 1912,change: -0.35,},
{year: 1913,change: -0.34,},
{year: 1914,change: -0.16,},
{year: 1915,change: -0.11,},
{year: 1916,change: -0.34,},
{year: 1917,change: -0.4,},
{year: 1918,change: -0.26,},
{year: 1919,change: -0.22,},
{year: 1920,change: -0.27,},
{year: 1921,change: -0.21,},
{year: 1922,change: -0.28,},
{year: 1923,change: -0.24,},
{year: 1924,change: -0.28,},
{year: 1925,change: -0.21,},
{year: 1926,change: -0.1,},
{year: 1927,change: -0.21,},
{year: 1928,change: -0.21,},
{year: 1929,change: -0.36,},
{year: 1930,change: -0.15,},
{year: 1931,change: -0.09,},
{year: 1932,change: -0.17,},
{year: 1933,change: -0.28,},
{year: 1934,change: -0.14,},
{year: 1935,change: -0.2,},
{year: 1936,change: -0.15,},
{year: 1937,change: -0.03,},
{year: 1938,change: -0.03,},
{year: 1939,change: -0.03,},
{year: 1940,change: 0.08,},
{year: 1941,change: 0.12,},
{year: 1942,change: 0.09,},
{year: 1943,change: 0.13,},
{year: 1944,change: 0.25,},
```

{year: 1945,change: 0.12,},
{year: 1946,change: -0.04,},
{year: 1947,change: -0.05,},
{year: 1948,change: -0.09,},
{year: 1949,change: -0.09,},
{year: 1950,change: -0.18,},
{year: 1951,change: -0.07,},
{year: 1952,change: 0.01,},
{year: 1953,change: 0.08,},
{year: 1954,change: -0.13,},
{year: 1955,change: -0.15,},
{year: 1956,change: -0.2,},
{year: 1957,change: 0.04,},
{year: 1958,change: 0.07,},
{year: 1959,change: 0.03,},
{year: 1960,change: -0.02,},
{year: 1961,change: 0.05,},
{year: 1962,change: 0.03,},
{year: 1963,change: 0.06,},
{year: 1964,change: -0.2,},
{year: 1965,change: -0.1,},
{year: 1966,change: -0.05,},
{year: 1967,change: -0.02,},
{year: 1968,change: -0.07,},
{year: 1969,change: 0.07,},
{year: 1970,change: 0.02,},
{year: 1971,change: -0.09,},
{year: 1972,change: 0.01,},
{year: 1973,change: 0.15,},
{year: 1974,change: -0.07,},
{year: 1975,change: -0.02,},
{year: 1976,change: -0.11,},
{year: 1977,change: 0.18,},
{year: 1978,change: 0.07,},
{year: 1979,change: 0.17,},
{year: 1980,change: 0.27,},
{year: 1981,change: 0.33,},
{year: 1982,change: 0.13,},
{year: 1983,change: 0.3,},
{year: 1984,change: 0.15,},

```
{year: 1985,change: 0.12,},
{year: 1986,change: 0.19,},
{year: 1987,change: 0.33,},
{year: 1988,change: 0.41,},
{year: 1989,change: 0.28,},
{year: 1990,change: 0.44,},
{year: 1991,change: 0.43,},
{year: 1992,change: 0.23,},
{year: 1993,change: 0.24,},
{year: 1994,change: 0.32,},
{year: 1995,change: 0.46,},
{year: 1996,change: 0.35,},
{year: 1997,change: 0.48,},
{year: 1998,change: 0.64,},
{year: 1999,change: 0.42,},
{year: 2000,change: 0.42,},
{year: 2001,change: 0.55,},
{year: 2002,change: 0.63,},
{year: 2003,change: 0.62,},
{year: 2004,change: 0.55,},
{year: 2005,change: 0.69,},
{year: 2006,change: 0.63,},
{year: 2007,change: 0.66,},
{year: 2008,change: 0.54,},
{year: 2009,change: 0.64,},
{year: 2010,change: 0.71,},
{year: 2011,change: 0.6,},
{year: 2012,change: 0.63,},
{year: 2013,change: 0.65,},
{year: 2014,change: 0.74,},
{year: 2015,change: 0.87,},
{year: 2016,change: 0.99,},
]
```

• 

40, 40, 60, 60

• ? Geom



???line?

??	???
??	year*change
??	??
??	smooth

????area?

??	???
??	year*change
??	???
??	#ffffff

• RegionFilter

 -  (#FF4D4F)

??	???
??????	??
????	min,max
????	max,0
??	#FF4D4F

 -  (#18a1cd)

??	???
??????	??
????	min,0
????	max,min
??	#18a1cd

Revision #2

Created 18 December 2019 22:39:28 by ???

Updated 19 December 2019 18:45:33 by ???