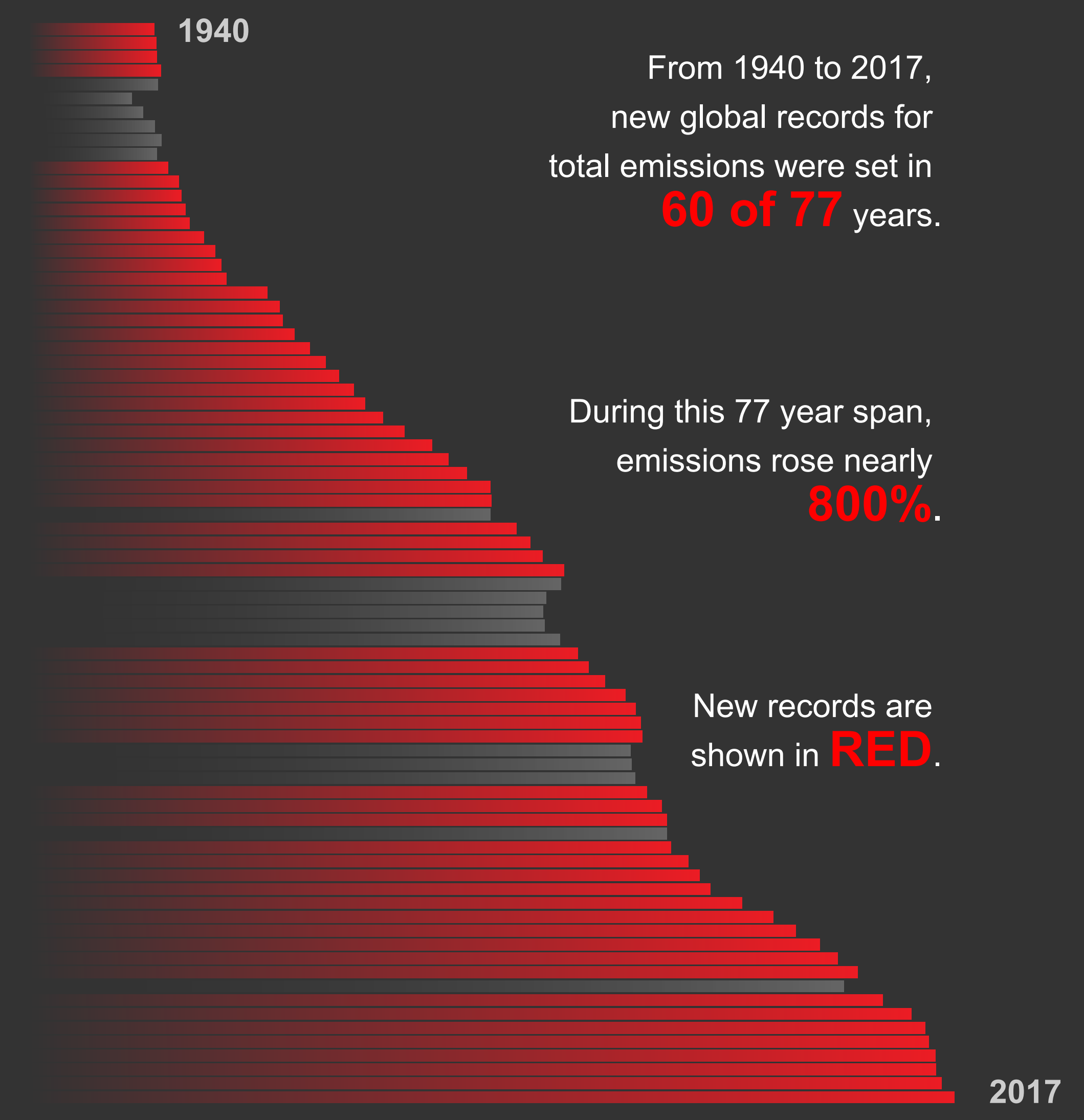
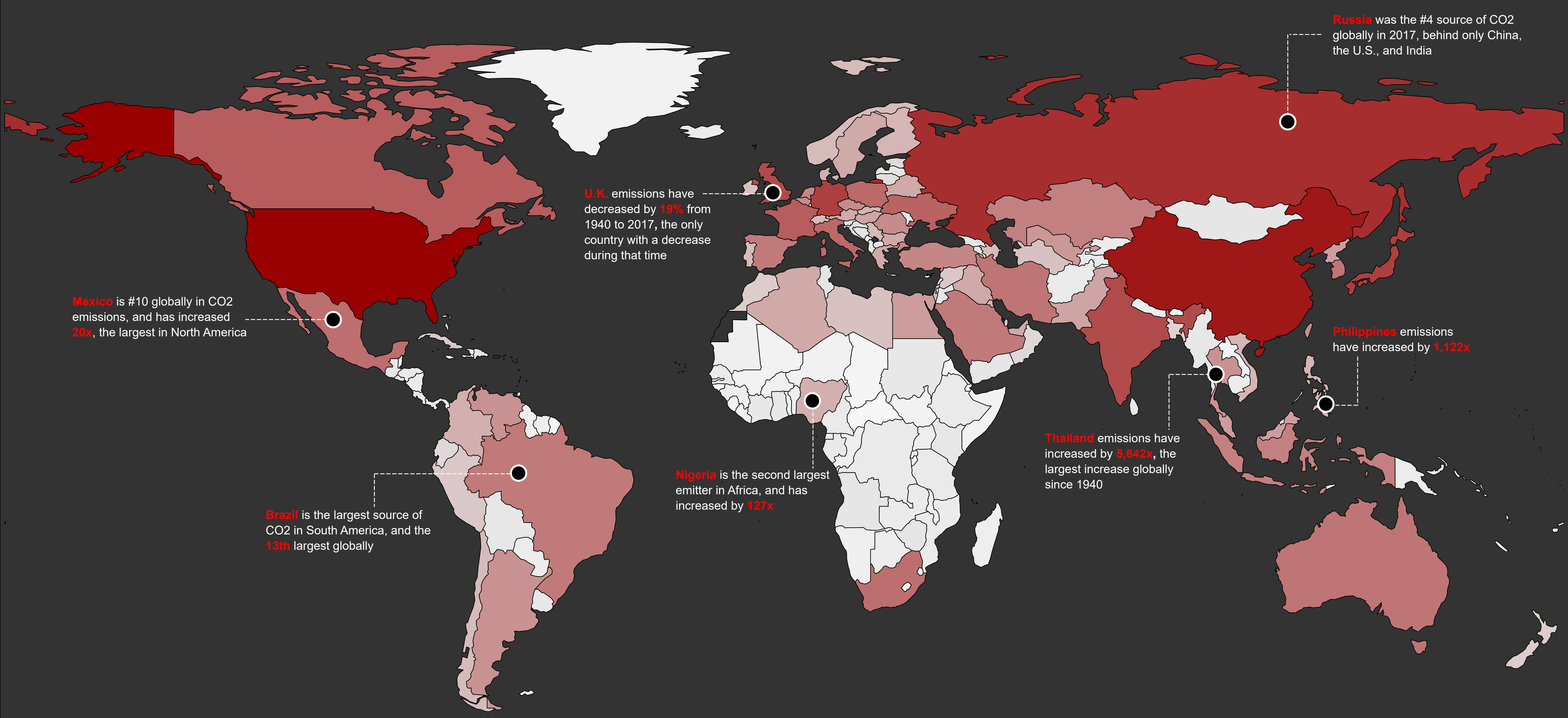


# A Compounding Problem: The Atmospheric Impacts of Global Industrialization

Source: <http://www.globalcarbonatlas.org/en/CO2-emissions>

## Greenhouse Gas Emissions (CO2) from 1940 to 2017



## Narrative

Carbon Dioxide (CO2) is an important component to global climate change, as increased levels of CO2 attribute to increasing global temperatures. CO2 restricts the ability of solar energy to be reflected back into space, and has been imperically linked to global warming.

While CO2 emission is a natural occuring process, human activity such as deforestation, land use changes, burning of fossil fuels, and idustrial farming have been shown to increase the amount of CO2 present in the atmosphere, thus contributing to global warming.

## Questions

- How have global CO2 emissions changed since the World War II era?
- How are CO2 emissions distributed by country and/or geographic region?
- Which countries and/or regions show the highest rate of change from 1940 to 2017?
- Which countries and/or regions are responsible for the majority of CO2 emissions?

## Data Description

Data was obtained from the Global Carbon Atlas, which lists CO2 metric tonnes emitted by country and region, dating back to 1751. However, below histogram shows the infrequency of early observations, so data was constrained to 1940 - 2017, which coincides with the end of WWII and boom in global industrial expansion.

For map visual, data was normalized with *rescale*. Various subsetting and aggregation performed in R.

