

# *World Forests and Deforestation*

# Context



Deforestation gained interests in the last decades with the environmental awareness provoked the industrial revolution. One can visualize shocking pictures of the burning Amazonian forest. Detractors may argue that such images are overwhelming, focusing only on one part of the world and manipulating therefore the public opinion.

Within this project, we will bring some insights in the forest areas evolution in the world and over the last 30 years. Figures will objectivily show the evolution of the forests areas.

# Data



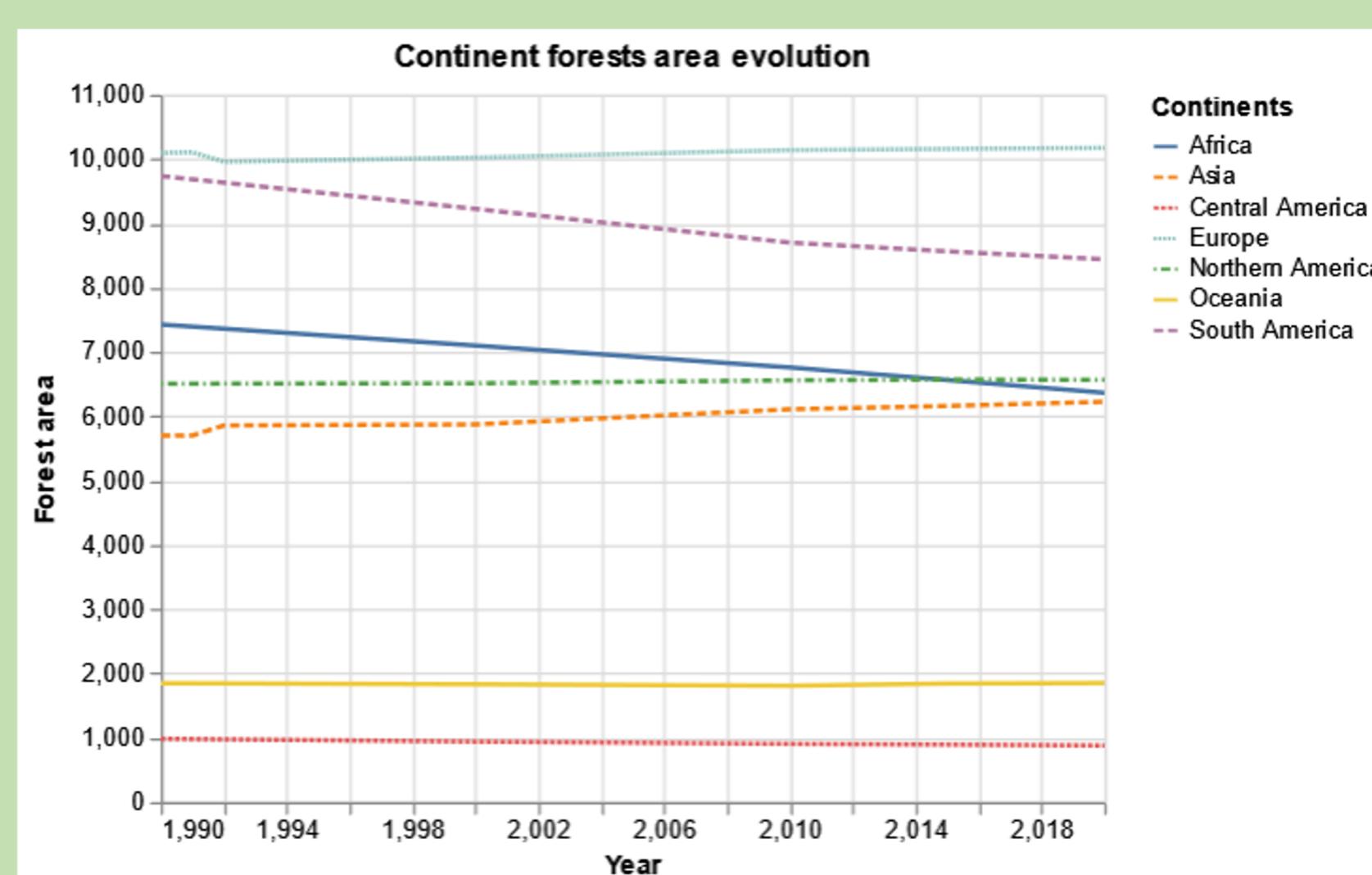
For the purpose of our project, we use .csv files from the website <https://ourworldindata.org/forests-and-deforestation>. There are multiple .csv files : forest-area-km.csv, forest-area-as-share-of-land-area.csv, share-global-forest.csv, Annual-change-forest-area.csv.

Furthermore, we computed some additional metrics. In brief, the main indicators are : surface areas, densities, forests area variations and 1990-forest-area-baselines. The latter is especially interesting for country forest area comparisons

# Overview

As of 2019, forests account for 38% of habitable land area, which represents 26% of the total land area. Share of forest have decreased by 4% over the last 30 years, as we can observe on the chart. 4.2% may seem small figures, but it still is 1,8 millions of km<sup>2</sup> (3 times the France area). Moreover, it hides evolutions that are different depending on the continents. Indeed, Asia gained 9.2% while Africa and South America respectively lost 16.7% and 15.3%.

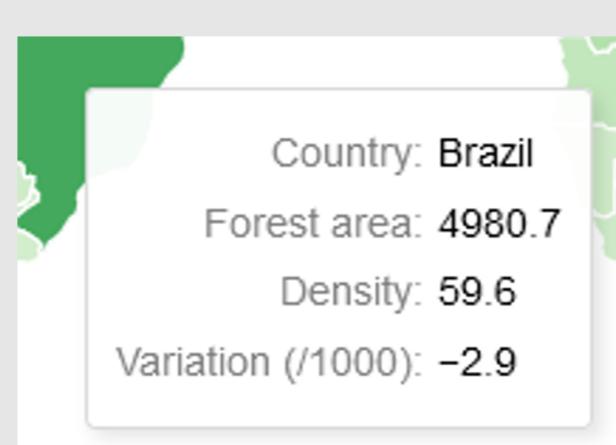
According to 'Our world in data', this marks 'a significant change from the past: global forest area has reduced significantly due to the expansion of agriculture. Today half of global habitable land is used for farming. The area used for livestock farming in particular is equal in area to the world's forests.'



# Detailed views & Interactions

# Exploring

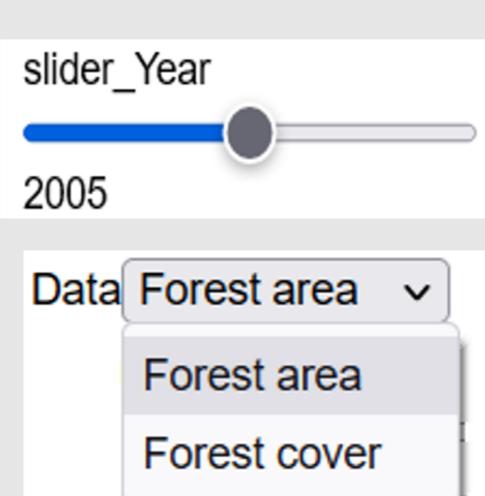
The world map initially shows the forest area per country. The value is encoded using the color, which can vary from light to dark green. Hovering on a country makes a tooltip appears, containing some descriptive information.



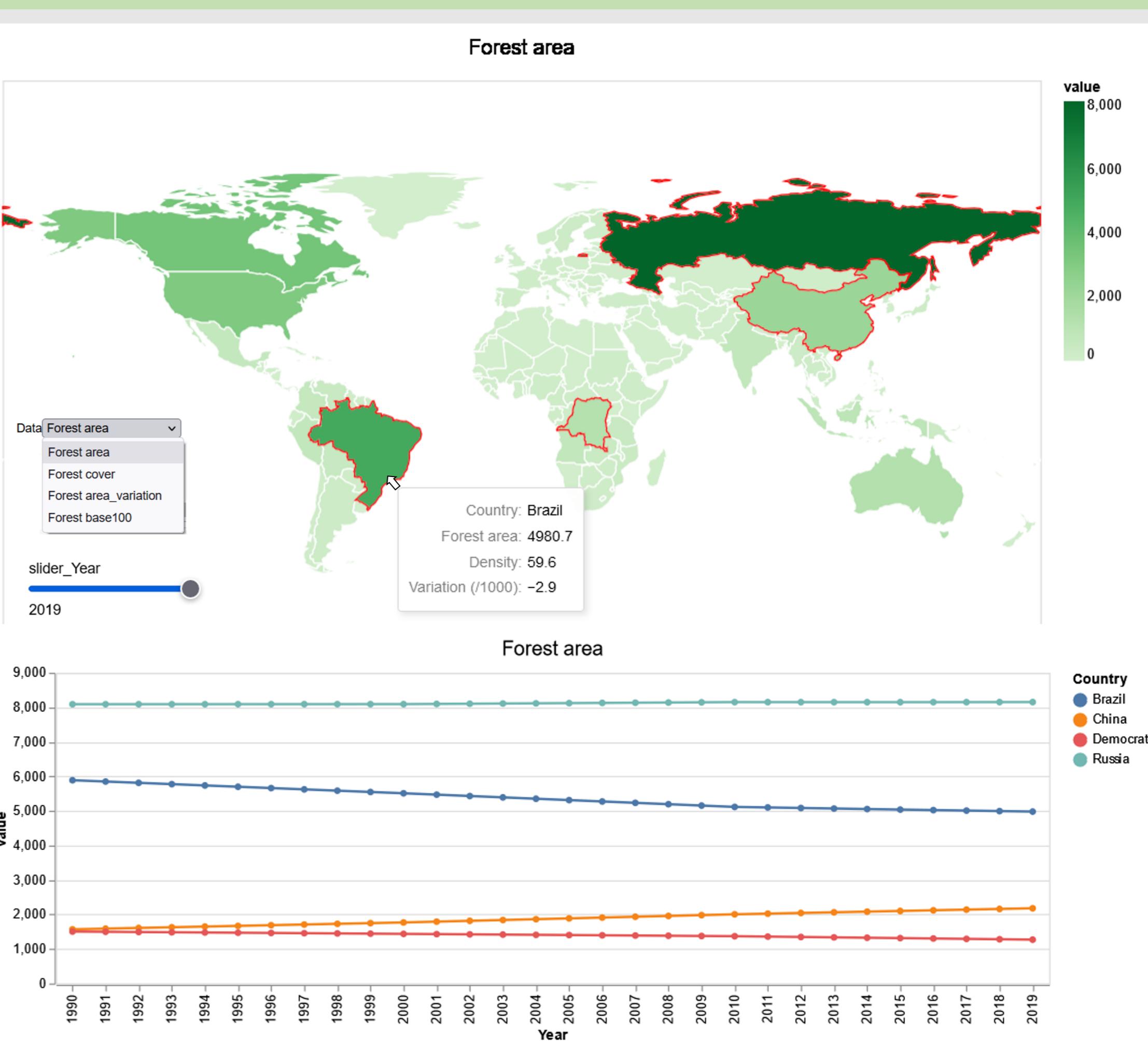
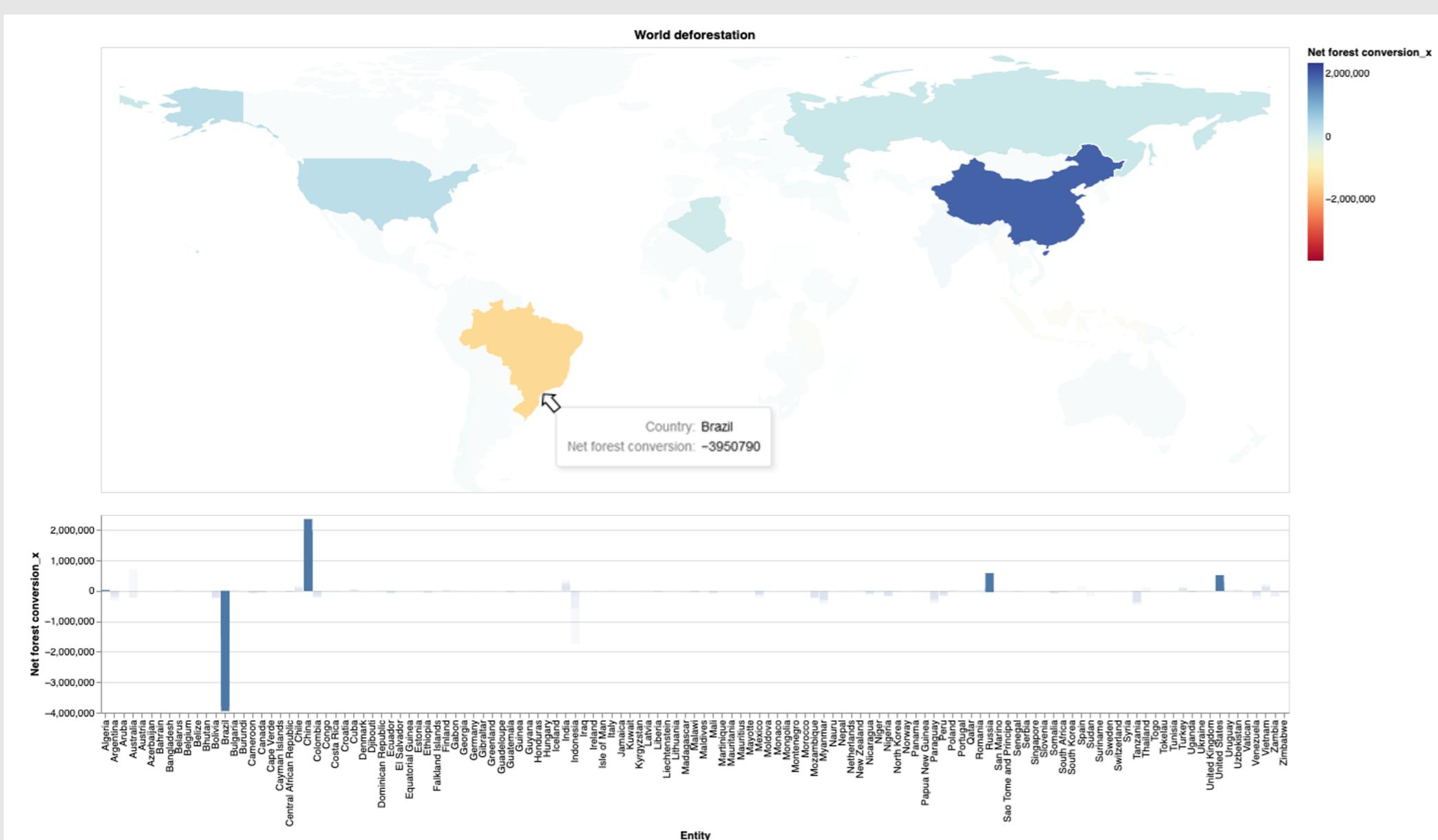
# Analyzing

When clicking on the country, the borders are highlighted in red. Moreover, the chart on the bottom shows the evolution of the forest over the last 30 years. For comparison purposes, several countries can be selected.

Furthermore, the year displayed on the world map can be changed using a time slider. Last but not least, a dropdown list enable the view of other types of data, such as the forest density, the area yearly variation and a 1990-area-baseline. Changing the data type and/or the year yield in the updates of all charts.



Finally, a dedicated chart shows the deforestation or reforestation according to the countries. The countries in a warm color are deforesting, while the countries in cold colors are in a process of reforestation.



The graph below displays for the selected year the countries having the biggest forest areas. This filter enable the reader to complete the big picture and get the main figures.

