﻿ Throughout US history, presidents and senators have worked together to create agreements and

accords on the international scale through treaties. “[The President] He shall have Power,

by and with the Advice and Consent of the Senate, to make Treaties, provided two thirds of

the Senators present concur; and he shall nominate, and by and with the Advice and Consent

of the Senate”(Article II, section 2). Hundreds of these documents are stored on the Library

of Congress website, yet it is often difficult and tedious for historical researchers,

students and teachers alike to effectively analyze trends and quickly navigate from one

large block of text to another. Our project for the Library of Congress challenge is a

data visualization of all US signed treaties passed by Senate from 1949-2017. Using

data downloaded from congress.gov, we converted the data from CSV to JSON format to

make it easier to work with. We then implemented a custom responsive data

visualization(treatySwarmPlot.html) with JavaScript and the D3 library.

The end result was a graph that plotted each treaty as a bubble along a date received by

the president of each treaty to its corresponding treaty topic. Using a program written in

python, we were then able to extract the foreign countries each treaty is signed with which

was challenging due to the many names a given country may go by. The dropdown menu and

autocomplete textbooks allows for the user to filter and optimize the graph to their liking

, or to isolate a specific set of treaties signed with a certain country. Given that the graph

is a data visualization tool, we hope that users may be able to spot trends and understand the

procession of historical events and their us to international legislative counterparts by a

visual, interactive and effective way which would otherwise be tedious and dull. Such trends

include the unprecedented amount of Criminal and Extradition treaties during the mid to late

90s. Exploration of each treaty is simple as the corresponding link to the congress.gov site,

among with additional information, is accessible by hovering the cursor over the treaty bubble.

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https://docs.google.com/document/d/129FxBQP7zEPmbOACtasMv89YpTx5Hb-GvKGTvfwQf2A/edit