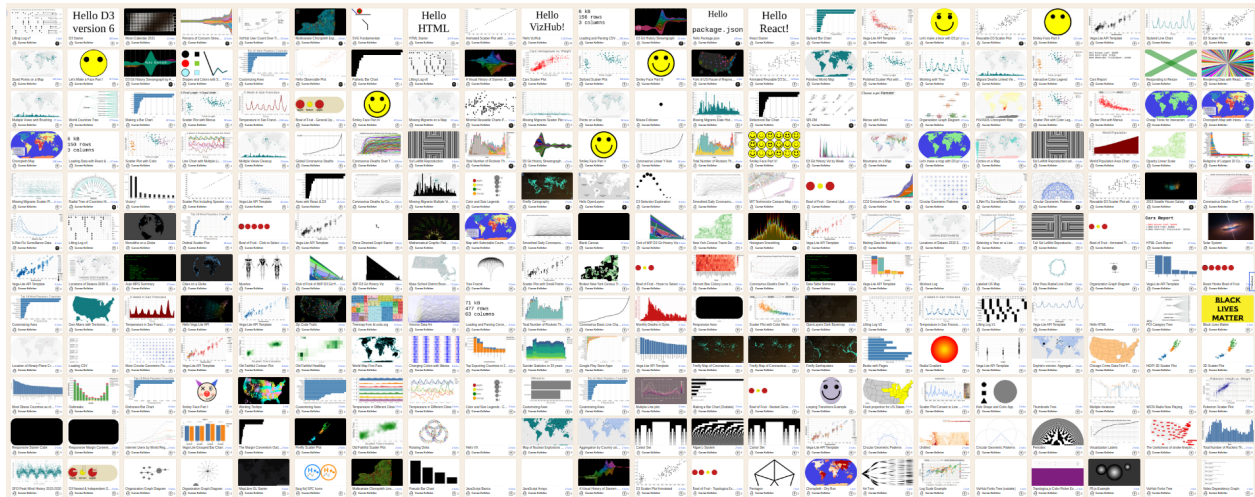# Work Samples

I have operated in the field of data visualization since 2005 and have produced many works. Here is a small sample of these works.


[VizHub Profile](#)

I created VizHub in 2018 and have a number of open source pieces there that have accumulated over the years. Much of the content was generated for the courses I have developed. Much of the content also originated while solving particular problems applicable to client work. Much of the content was also created just for fun. You can poke around and see what pops out: https://vizhub.com/curran

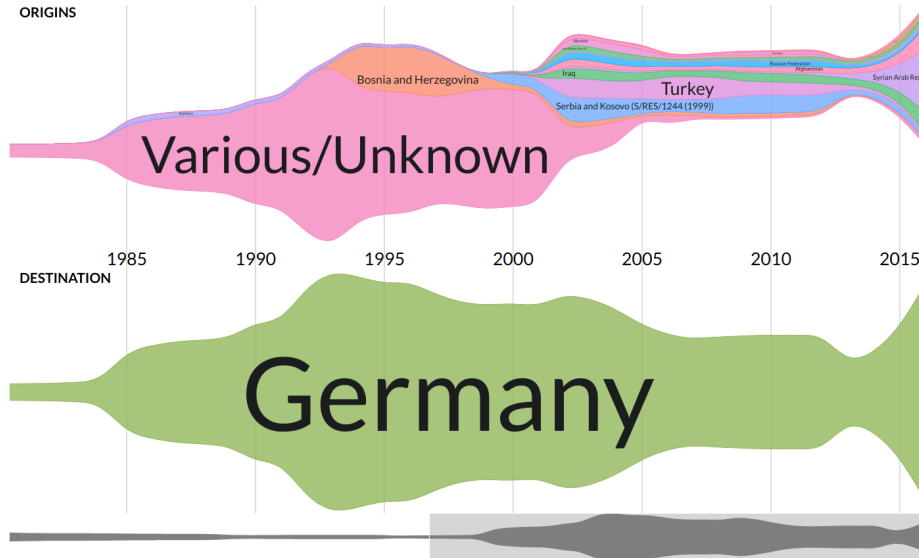Persons of Concern StreamGraph by Origin
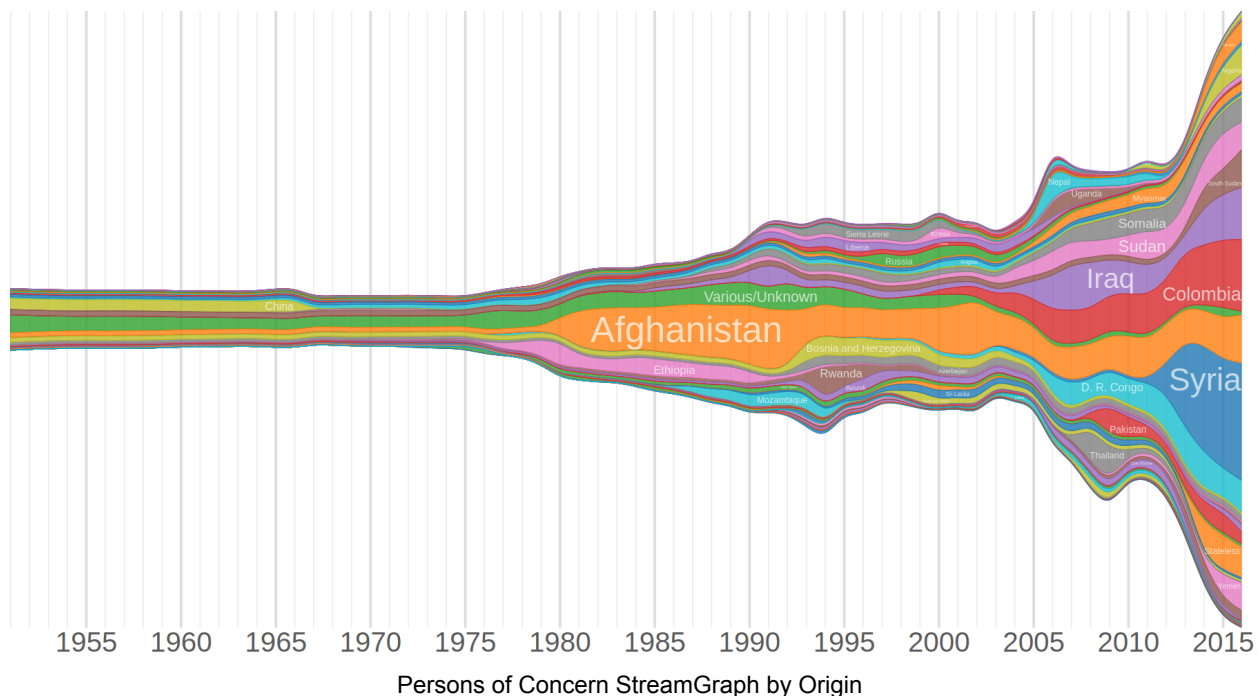
This piece was generated as part of an freelance engagement with the United Nations Refugee Agency (UNHCR) in 2017. It is a visual representation of the UNHCR's historical database of refugees and other persons of concern, based on which country they came from. This piece was a first prototype for a larger interactive dashboard.

[UNHCR Streamgraph Explorer](#)
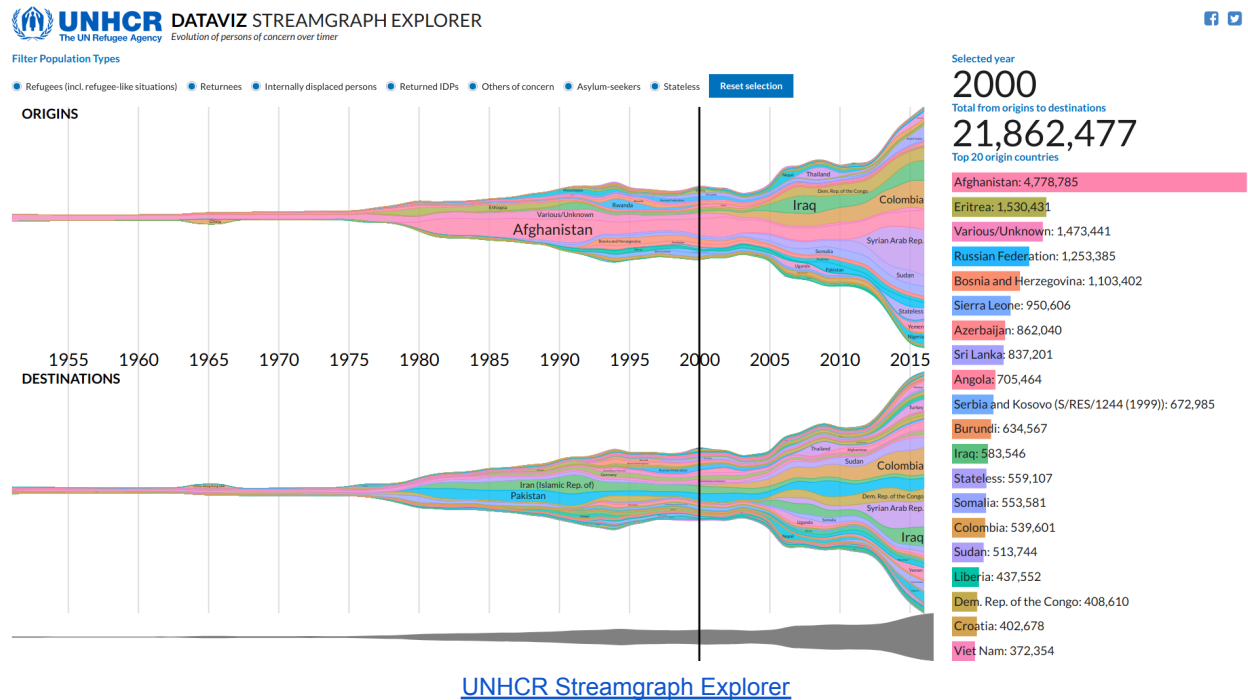
The full interactive dashboard allows you to zoom into specific time spans and drill down into the specific numbers for each year. It also allows you to filter by type of person of concern, toggling inclusion of each group (Refugees, Returnees, Internally displaced persons, Returned IDPs, Asylum seekers, Stateless and Others of concern).

[Filtered view.](#)

This tool also lets you click on an origin or destination to isolate it. For example, clicking on the "Germany" destination layer will show you the origins of people whose destination was Germany. In the screenshot above, the time span was zoomed to isolate only the time span from roughly 1980 to 2016. This tool highlights my particular interest in building visual compositions that include multiple visual "windows" into the same data source, and facilitate exploring the data using various forms of interaction.
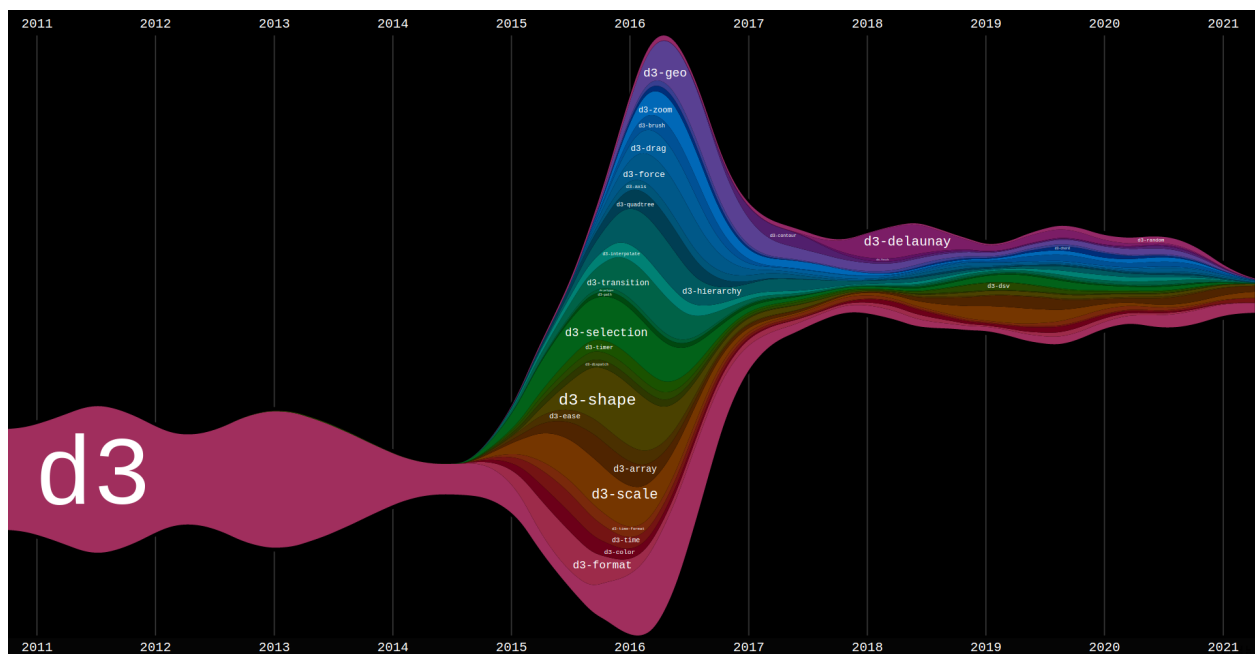
[D3 Git History Streamgraph](#)

This is an experiment in visualizing D3 Git History. Each layer is a D3 repository. The thickness of each layer is the number of commits per week with smoothing applied. This visualization uses a modified Streamgraph technique where the layer order is determined by the time of the first commit. So, as you read the labels from bottom to top, that corresponds to the history of when each repository was introduced. This was a personal side project done for fun.
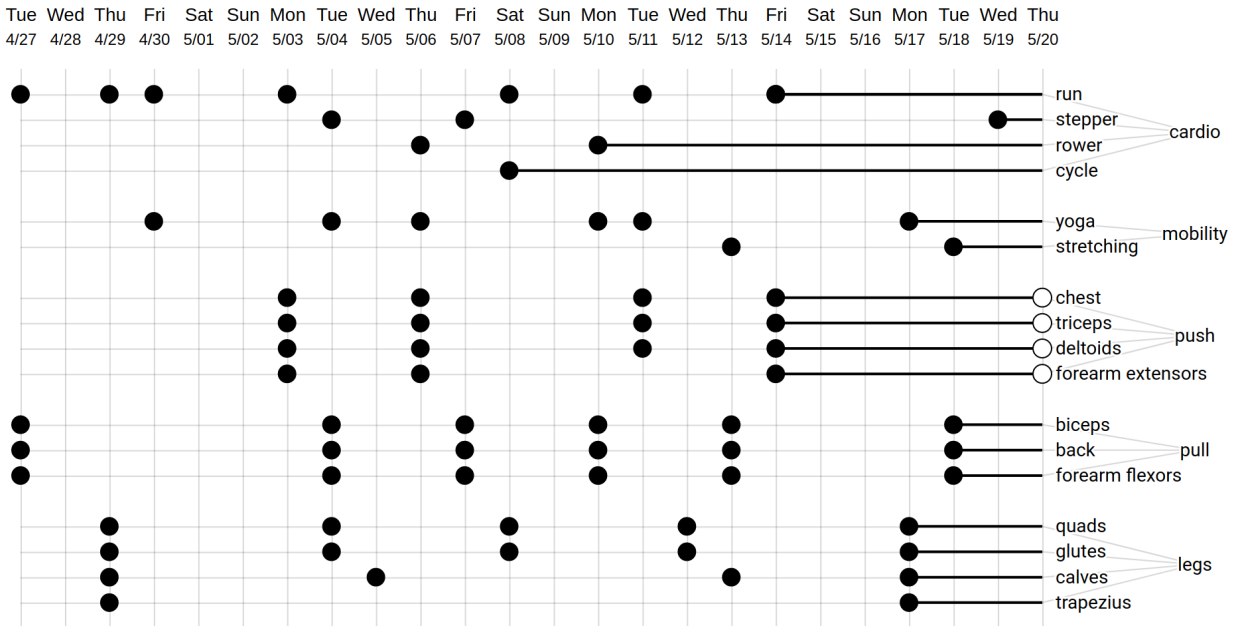

[Lifting Log](#)

A tool to keep track of personal exercise activities. This was created to facilitate a dynamic personal exercise program such that muscles are not overtrained, not undertrained, _and_ there is no need to stick to a fixed split routine. The idea here is that when I feel like exercising, I can look at this to see what muscles I have not exercised for a while, and also which ones I did exercise recently, to inform my decision in terms of what to do next.


[Stamen Fascinator](#)

I designed and built this interactive visual showcase of Stamen's projects. Each circle represents a project. Left to right position represents time. Hovering over a project shows more detail for it, and clicking leads you to the blog post about the project.
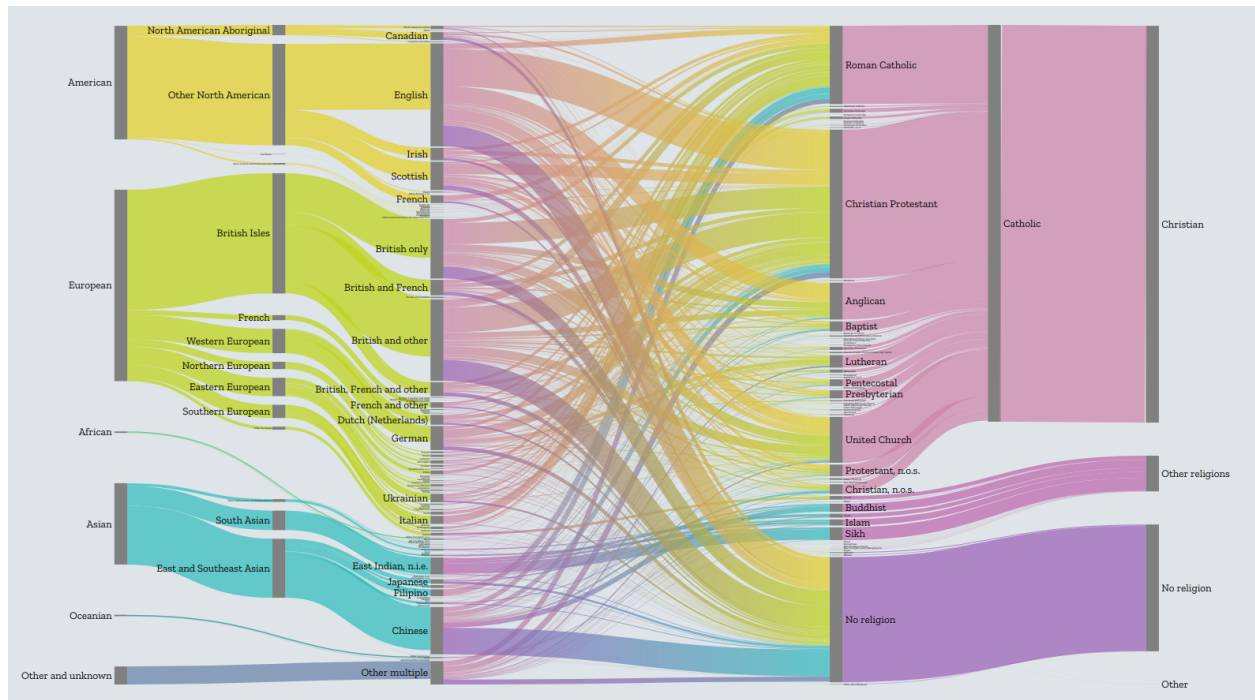
[Max Planck Superdiversity](#)

This 2018 project was done by Stamen, commissioned by the Max Planck Institute. It shows "superdiversity" in Vancouver, Canada by subdividing the population along hierarchies of religion and ancestry. I created the first iteration of this Sankey diagram, and it was subsequently iterated upon by others (designers and developers).
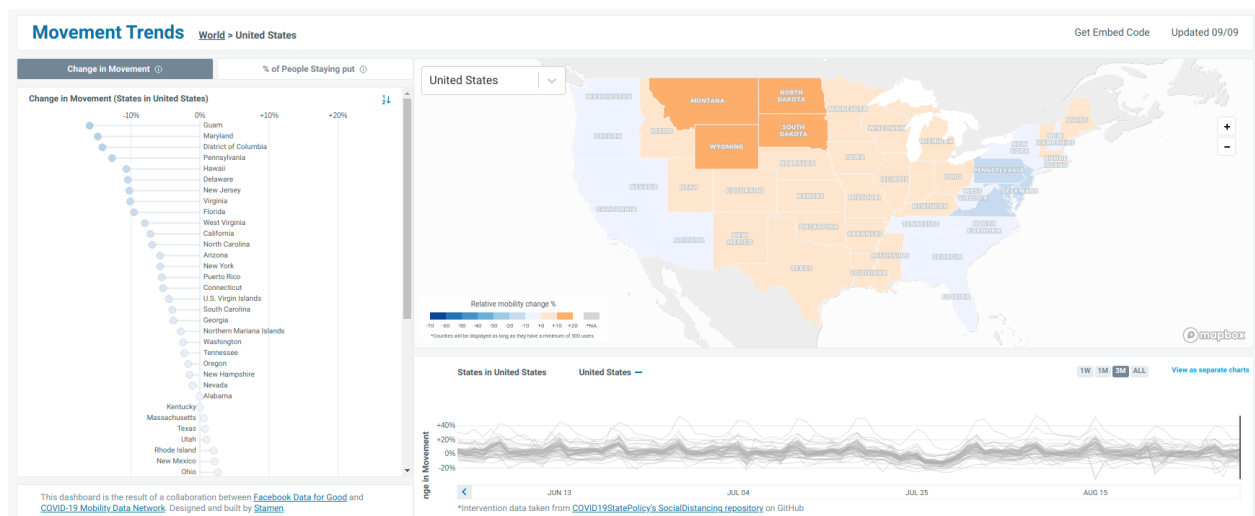
[Facebook Data for Good Mobility Dashboard](#)

Facebook Data for Good Mobility Dashboard surfaces mobility data globally and allows users to explore this data using a variety of interaction techniques. It features multiple linked views with linked highlighting (by hovering on the lollipop chart or line chart). It also features drill-down interactions, so you can view data at various levels of detail (country, state, county or county equivalent.) I developed the visualizations and interactions in this piece, working with a team of designers, cartographers and other developers.