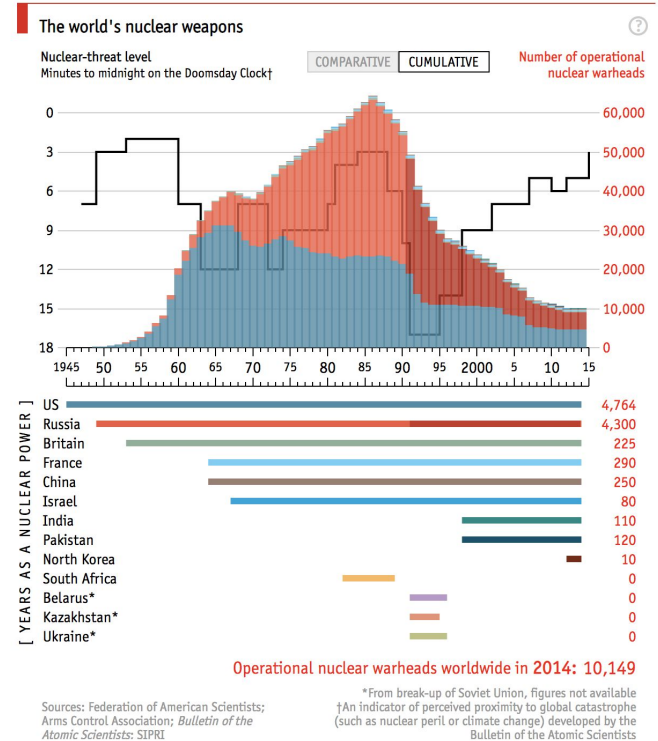

Assignment 2 - A Thousand Suns

Adrian Crockett (DVIA - Fall 2018)

Initial Inspiration

- **Data fields:** Used minutes to midnight as an proxy for risk
- **2nd panel:** I liked the TRUE/FALSE nature of the panel - see the smaller countries in particular for an interesting pattern



Used Excel as Home Base to perform...

- **Data transformations:** Used Excel to perform data entry (for new data sets), manipulations and corralling, this equated to around 40% of the time
- **Rapid prototyping:** Used Excel as a rapid prototyping tool, to try out different visual variations - this equated to around 30% of the time
- **Formula builder:** Leveraged Excel formula building to build out code for P5 to minimize human intervention, simplification and speed - this equated to around 10% of the time

Data Fields

I focused on four main data sets, two of which were provided:

- **Community:** Atomic treaties - when were the treaties signed [Panel 1]
- **Who's listening:** Year by year testing for each country TRUE/FALSE [Panel 2]
- **How Big:** Atmospheric & underground testing - total count across all testing countries [Panel 3]
- **End Risk:** Minutes to midnight [Panel 4]

The idea was to read down the panels - gaining more insights with each subsequent panel

Panel 1 - Community: Atomic treaties

Indicator of the month and year for each of the 43 treaties

- **Marker:** Tried a circle, simple point and combination thereof: selected the point
- **Drop line:** Light drop line to connect the panels, this was dropped behind all other charting elements

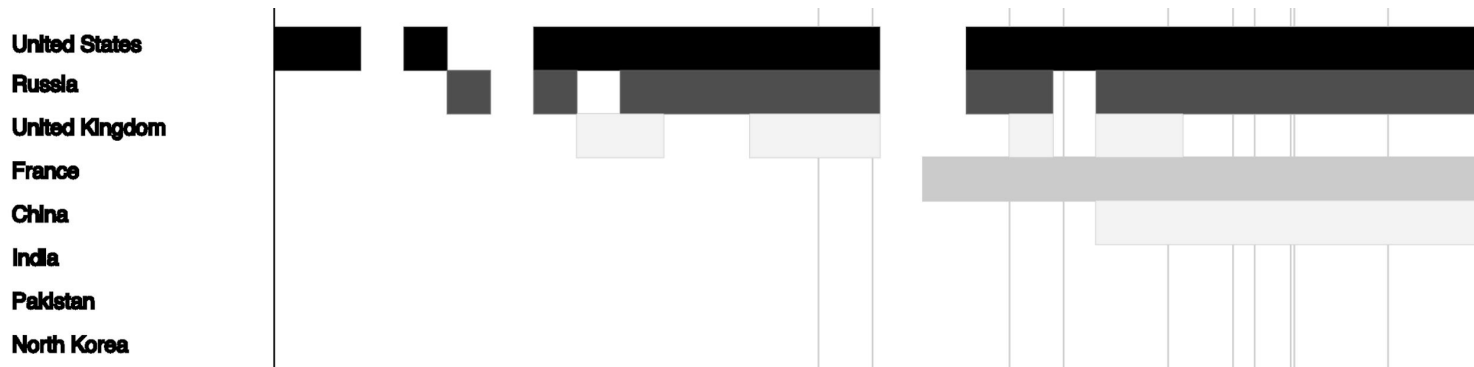
Nuclear treaties



Panel 2 - Who's listening: Year by year testing

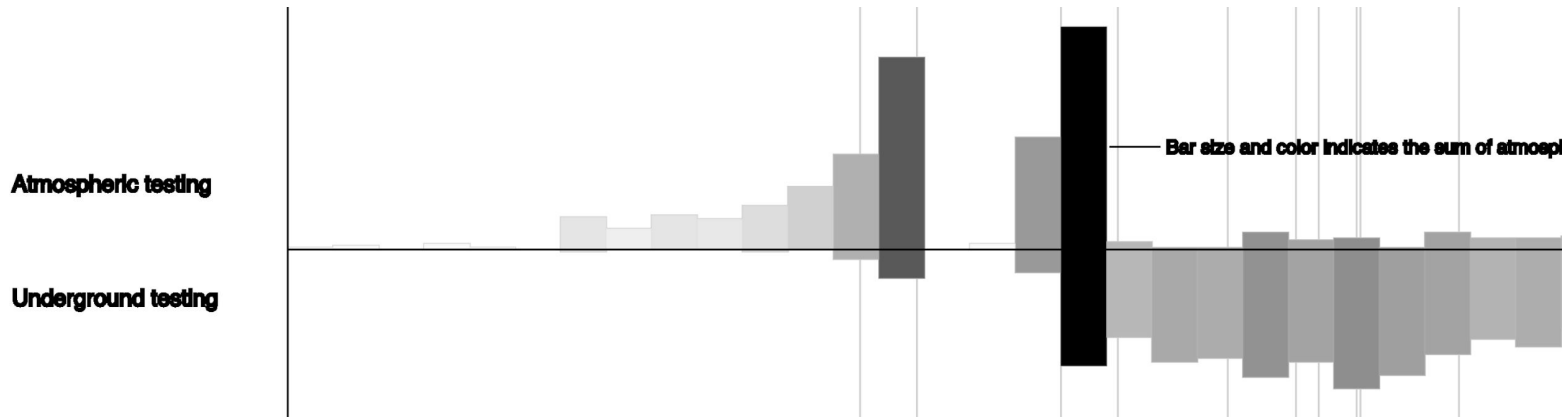
Indicator of years in which each country was active in nuclear testing ($>0 = \text{TRUE}$)

- **Bar length:** Selected for an active year (see ON & OFF patterns)
- **Bar color:** Black indicates the largest tester, and color is then scaled down for the total number of tests for each country



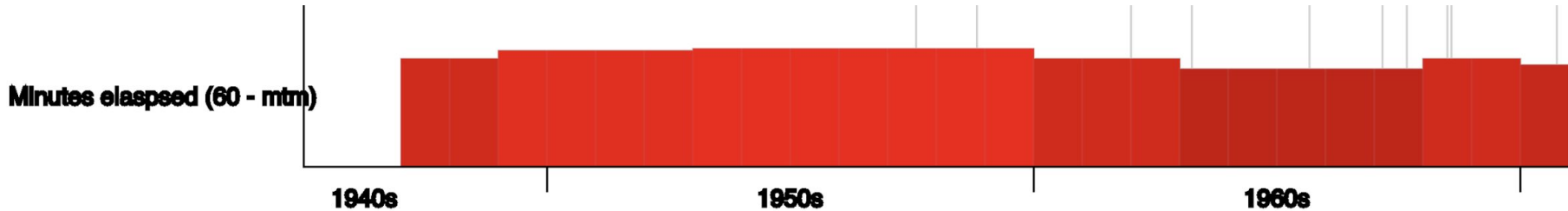
Panel 3 - How Big: Atmospheric & underground - total

- **Bar length above/below:** Sum of atmospheric tests above the x-axis, and sum of underground tests below the x-axis
- **Bar length total:** Sum of both types of tests
- **Bar color:** Black indicates the highest testing year, and is then scaled down for the number of tests in each respective year



Panel 4 - End Risk: Minutes to midnight

- **Minutes elapsed:** Created a new measure, 60 - minutes to midnight
- **Bar length:** 60 - minutes to midnight
- **Bar color:** Closer to 60 minutes, the closer to red



All together

Nuclear testing, treaties and risk...post 1996, nuclear isn't the major driver of risk

