**Data Source:**

Teaching and Learning International Survey’s 2018 report. This is a survey of 260,000 teachers and principals in a variety of countries and included data on teacher experience, satisfaction, tasks, training, representation, as well as student demographics.

Link: https://www.oecd.org/education/talis/

**Viz 1:**

* **Idea:** Tongue-in-cheek representation of how many hours K-12 teachers reported working on tasks related to their job, including both general teaching in the classroom as well as 10 other tasks (such as professional development, counseling students, etc.). I’m hoping (in the best of all worlds) to combine these reports of the number of hours worked with state/country level teacher salary information to create an interactive widget that shows how much teachers make per hour and how many hours they work per week, and then changes as each task is added to the list, with a preset for the average workload. In addition to this, I’m hoping to break it down by state/country and correct for cost-of-living adjustments.
* **Audience:** My anticipated audience is non-scientists and teachers as a tool to show just how much K-12 teachers do.
* **Message:** Teachers are underpaid for the amount of work they do and much of the education system is built on unpaid teacher labor – to illustrate, in the TALIS survey, the average USA teacher reported working an average of 46 hours/week but when teachers were asked to itemize their activities from the past week, the average hours worked jumped to 63/week.

**Viz 2:**

* **Idea:** Again, I may be biting a bit more off than I can chew, but… my dream right now is to create a geographic representation of all the schools who were included in the study, and then creating an interface that adjusts opacity of states (or dots representing schools sampled in the study) based on teacher reports of the school being adequately funded/supported to offer quality education to a student given a list of possible identities (variables in the data-set include: English as second language, refugee status, neurodiversity). As such, a participant could “build a student” who may be a refugee with dyslexia and see what portion of schools sampled are capable of supporting the student. If I have a lot of free time, duplicating this code and creating a parallel program that highlights differences between principal reports and teacher reports.
* **Audience:** This is another viz that, currently, will be best suited for a lay audience (aka non-scientists)
* **Message** There is great inequality in the support for schools, and this is reflective in teacher reports of how much support the school actually has to service non-traditional students.

**Viz 3:**

* **Idea:** Break data up by country and build a bar graph that has the discrepancy between hours worked generally and the itemized list of hours worked (from Viz 1) on the positive Y axis and feelings of job satisfaction on the negative Y axis, showing clearly that satisfaction is tied to the aforementioned discrepancy.
* **Audience:** This will be geared toward a policy/scientific audience, with relationships of interest highlighted to contribute to the wider narrative. I’m having a hard time visualizing it right now, but I’m hoping that it’ll be clear as I dig deeper into the preliminary visualizations.
* **Message:** The USA has a large discrepancy and low teacher satisfaction compared to comparable other countries and this should be solved through policy intervention.