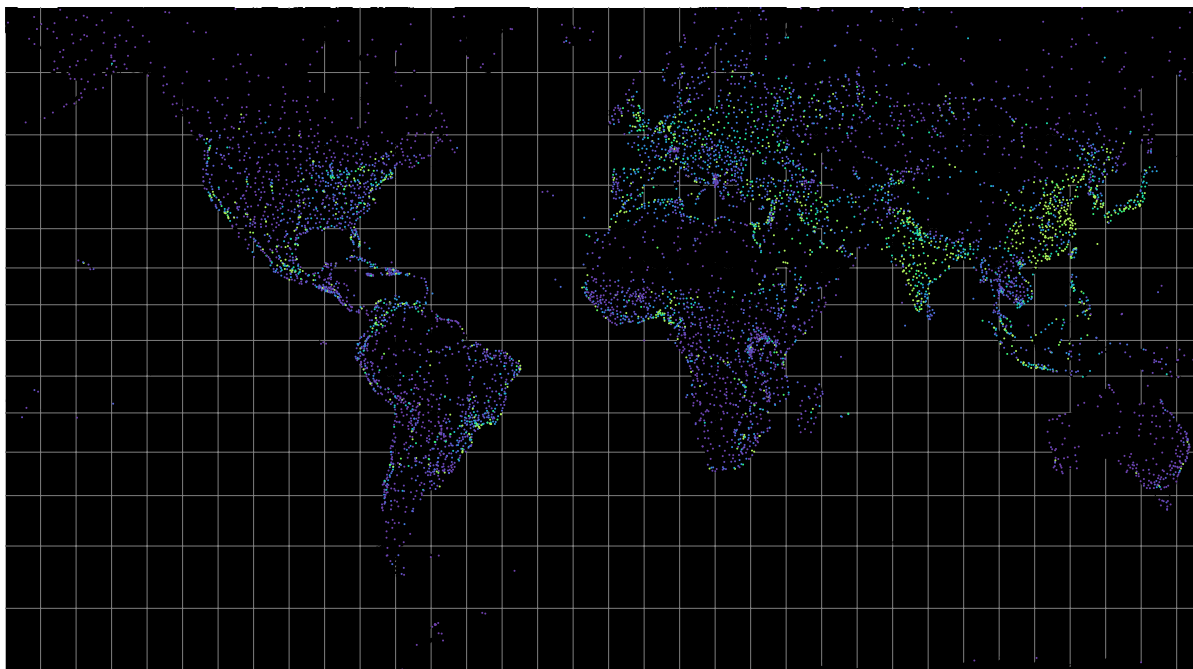


# MAPPING

Same as ever: homework should look like [homework-completed.pdf](#), hints are in [hints](#), blah blah blah.

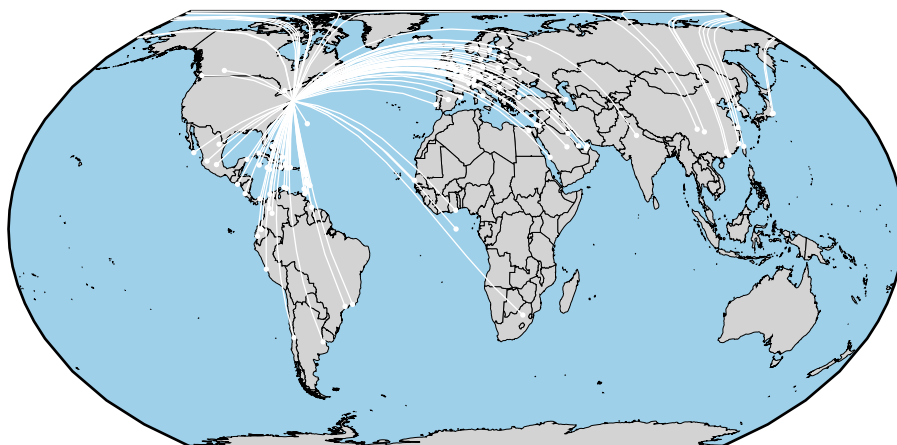
## Chart 1: A map about dots easy

Do you like [/r/outrun](#)? Do you like [synthwave](#)? Cool, let's make a map like that.



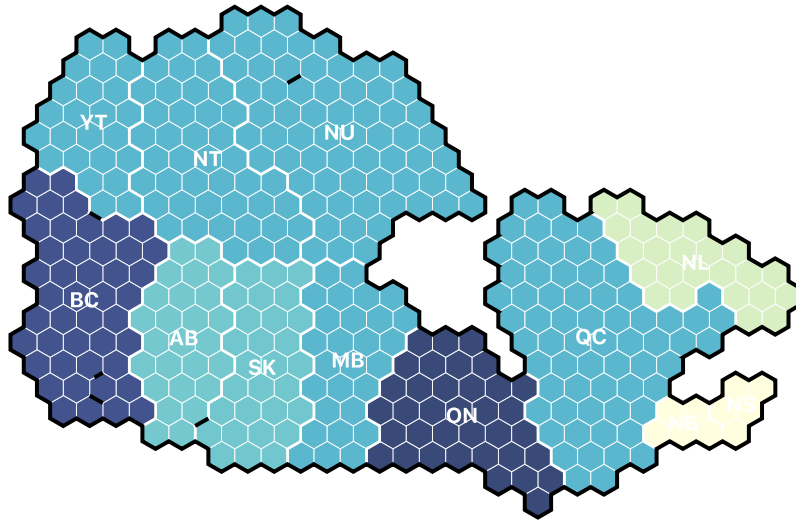
## Chart 2: Points and lines difficult

Which airports can you [fly non-stop to](#) out of JFK? Let's plot the airports, and draw lines for the flights. We're going to use the [geoEqualEarth](#) projection.



## Chart 3: Hex maps moderate

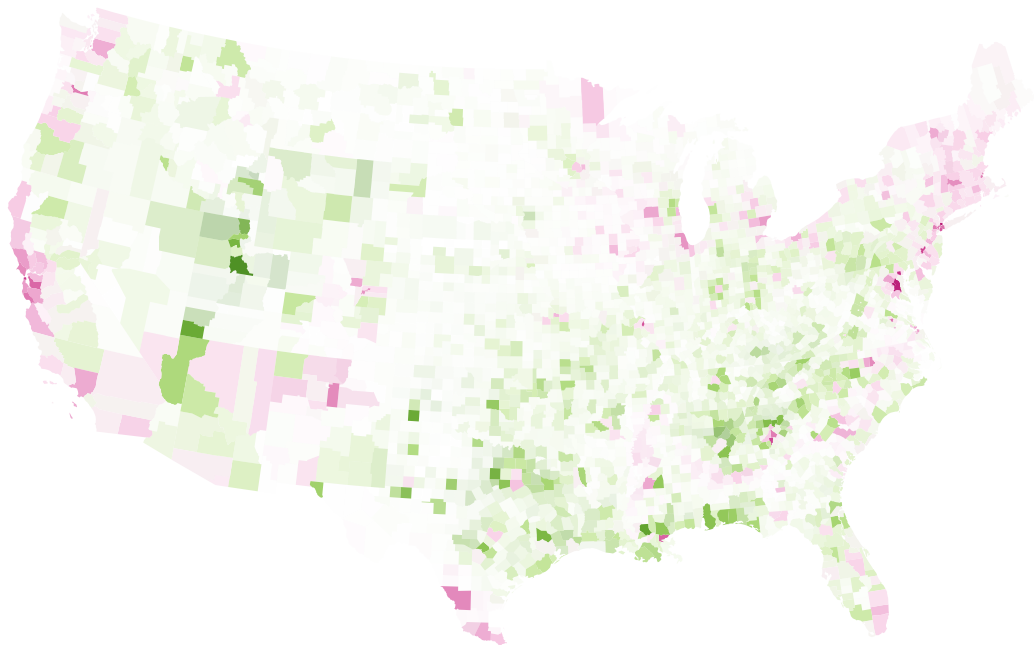
Use [this tool](#) to build a map. It comes with instructions **and** code!



## Chart 4: An election choropleth easy

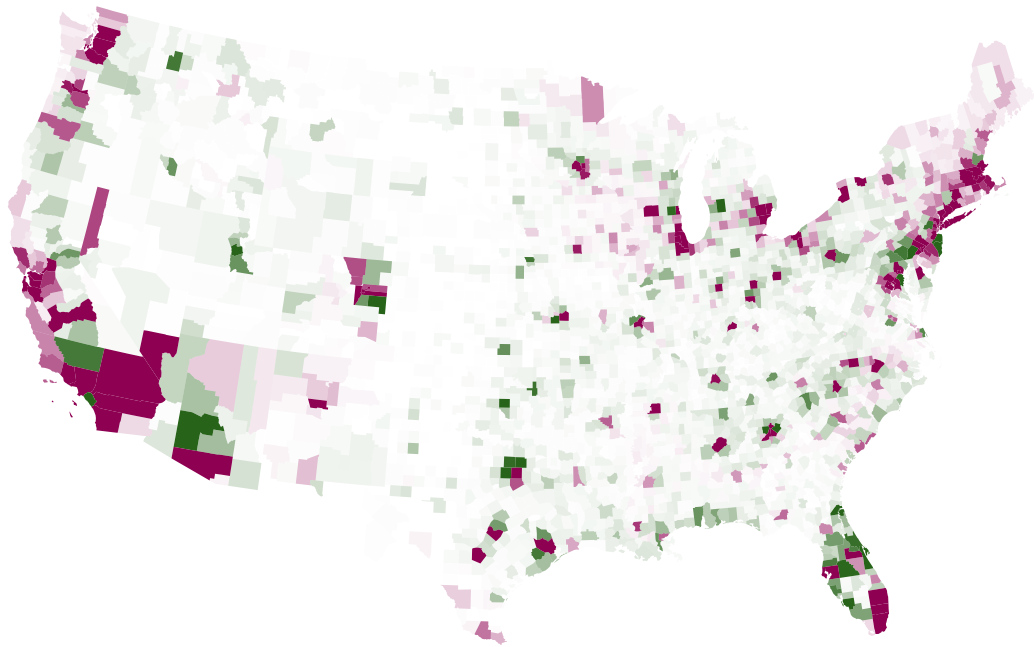
Because hey hey choropleths hey hey! Make the color related to who was voted for, then make the opacity related to how many people are in that county ([see this](#)). Compare the map where you use opacity to the map where you don't. Be amazed!

For the 2016 election I'm missing data for Maine - you can use `counties.topojson` for 2012 or `counties_with_election_data.topojson` for 2016 (sans Maine). Want to learn about how to pick colors well? [read this](#).



## Chart 4: An election choropleth easy

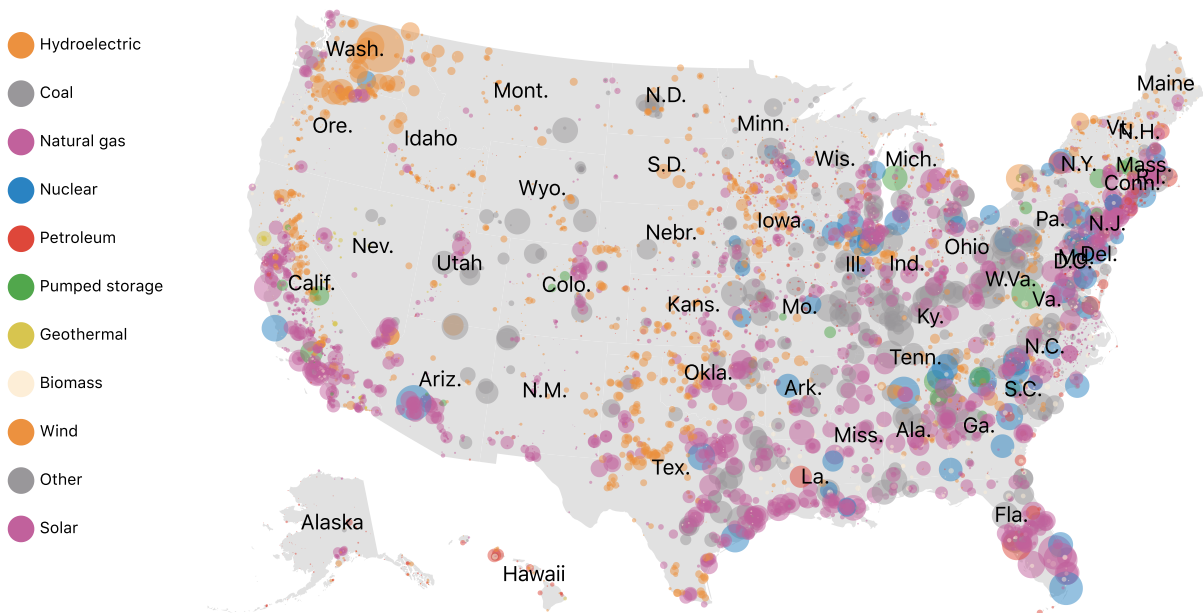
Make the same thing, but instead of using `colorScale` for Republicans vs. Democrats, just make it 100% one color if Republicans won and 100% another color if Democrats won. Compare with **4a** and think about how your color scale kind of screwed up with color-by-alpha thing.



### Chart 5: A bubble map easy... to a point.

Make a map of all of the powerplants in the United States. Size the circles by their output, color them by the type of powerplant. We're just copying [this](#), really.

Include a legend.



### Chart 6: Small multiple maps ?????

Hey wait, that [Washington Post thing](#) had small multiples, didn't it? Let's do that, too.

