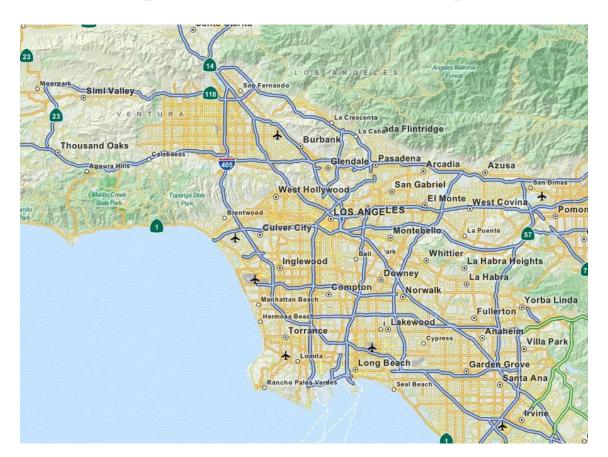
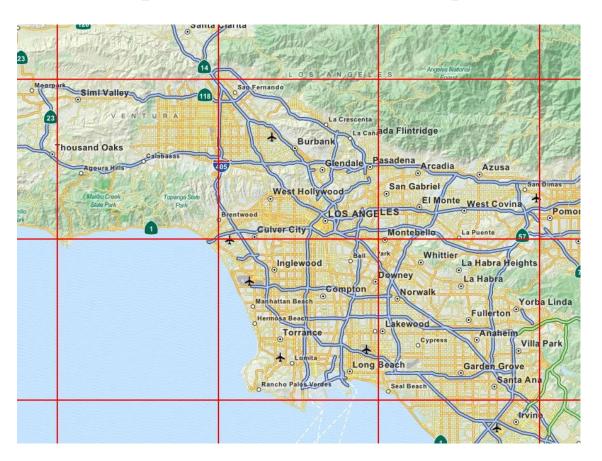
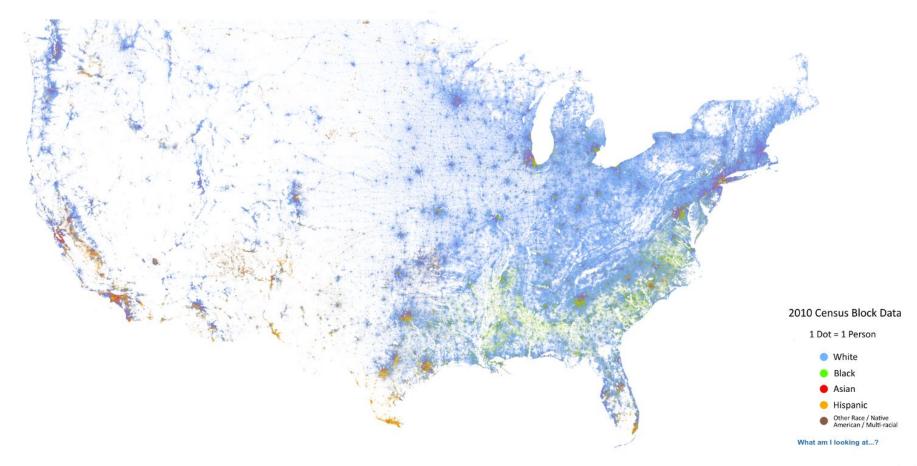


Briefly: What's a map tile?



Briefly: What's a map tile?





This is great!

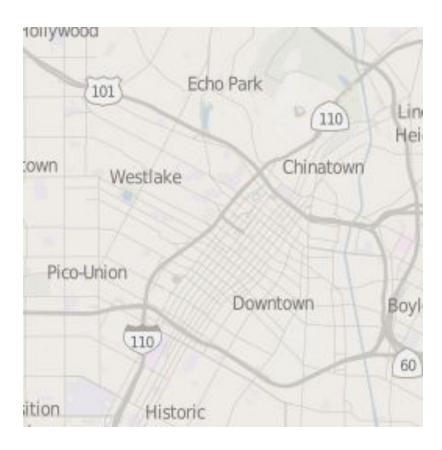
one problem.



So what is a vector tile?

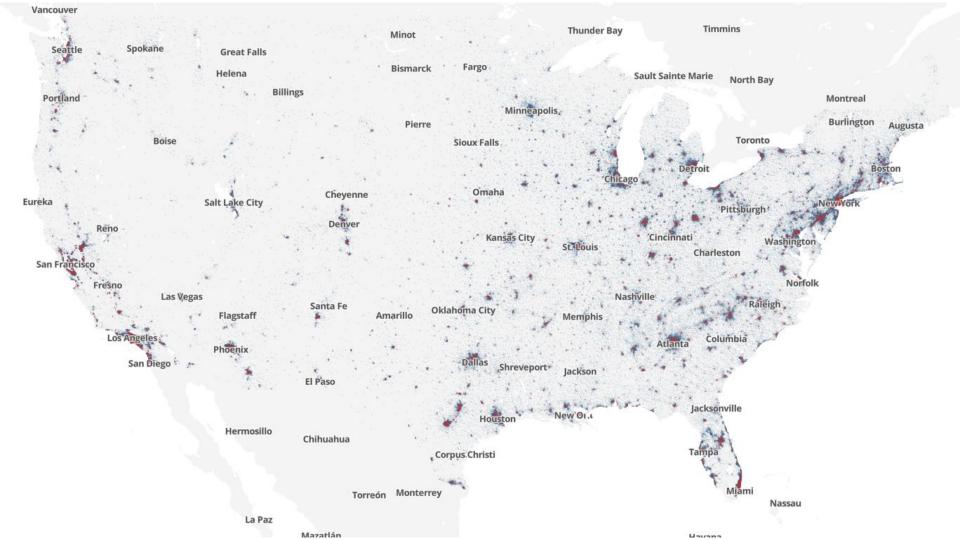
- They're data! Think: Geojson
- Imagine taking a giant dataset -- say every census tract -- and slicing it up into squares for each zoom level. Each square only contains the data in that area.
- Further out zoom levels don't need as much detail. You don't need to see every twist and turn in a street from a wider view.
- Vectors scale! You don't need a tile for every zoom level -- if you zoom in, your map library can just scale the map data for you.
- So you run your data through a program:
 - Tippecanoe https://github.com/mapbox/tippecanoe (hold for joke)
- And serve up the resulting mbtiles file:
 - Tessera https://github.com/mojodna/tessera
- Put it behind Varnish! It caches just like any of your HTML or JSON files.







(23.3kb) (13.1kb)



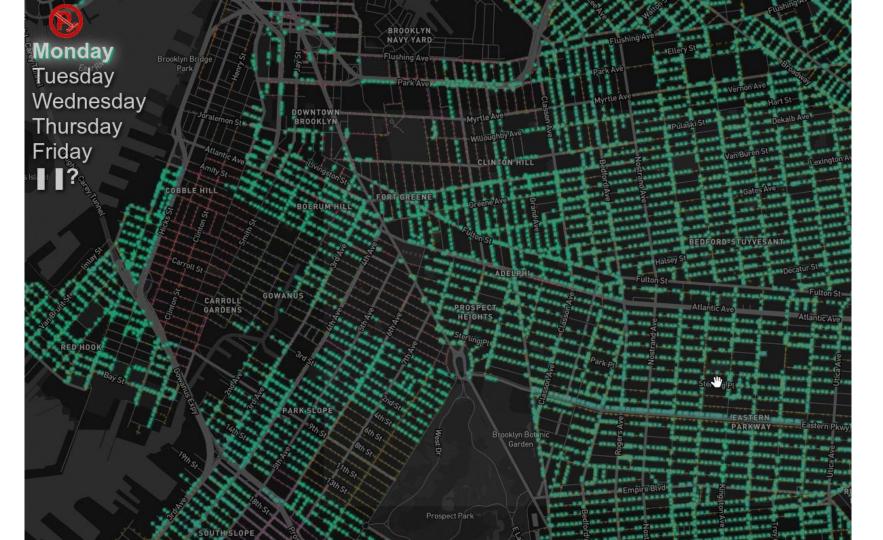
Cheyenne











Vector tile sources:

- Mapbox
 - Metered use of their vector tiles service
 - Paid tier for more map views
 - An amazing design studio to generate styles
 - Mapbox GL JS is a great map library
- Mapzen
 - Free use of their vector tile service*
 - Tangram, their map library, lets you use all the crazy features of WebGL

THANKS!