

**Challenge
Feeling good
Music
Mapping**

1.Run

use RunKeeper, Strava, Nike+ (must allow export)

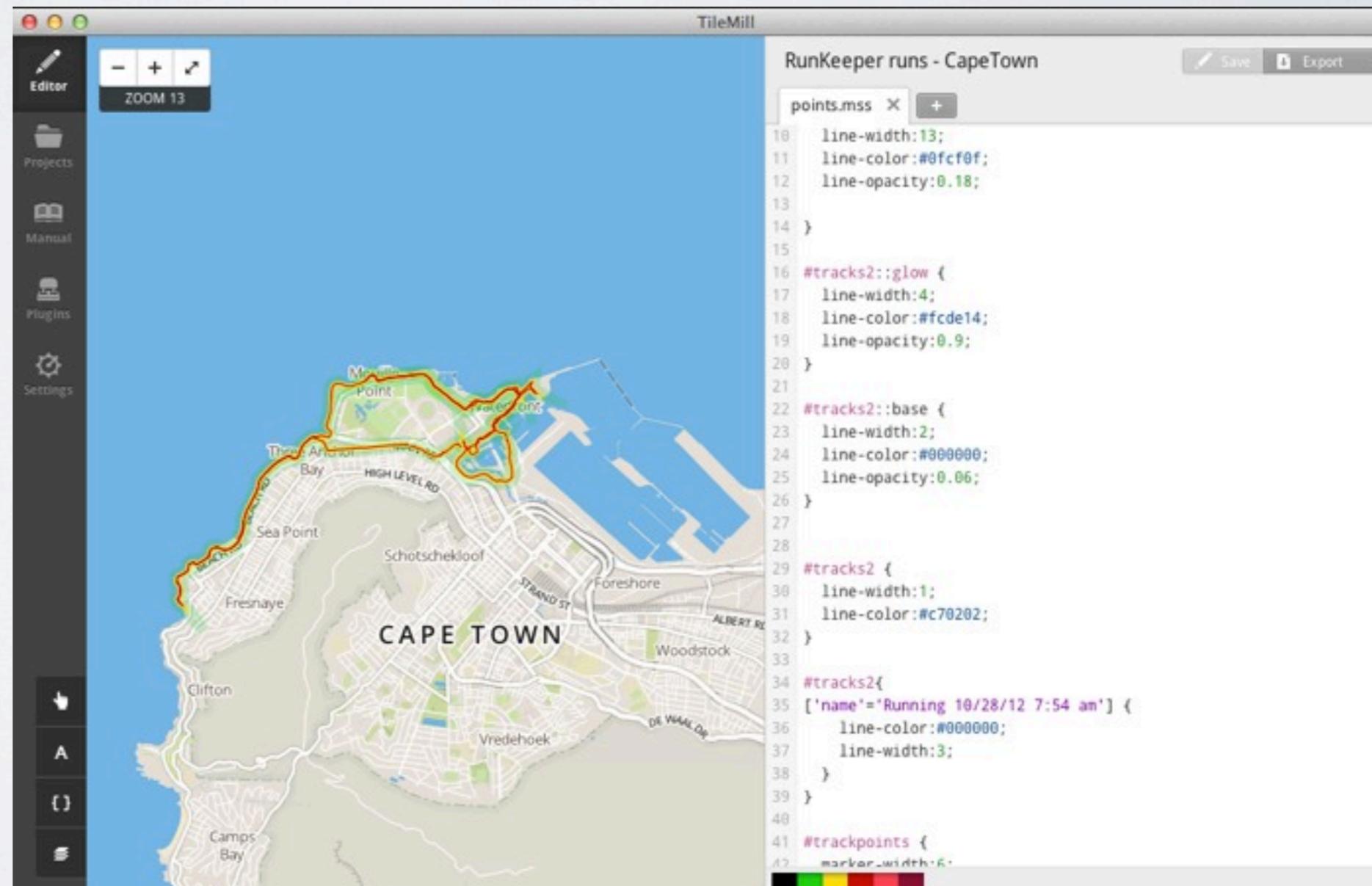
2.Export gpx to shapefile:

```
$ ogr2ogr runs first-track.gpx
```

```
$ ogr2ogr --append runs second-track.gpx
```

3.TileMill it

4.Publish in Mapbox



Carto for Marathon track:

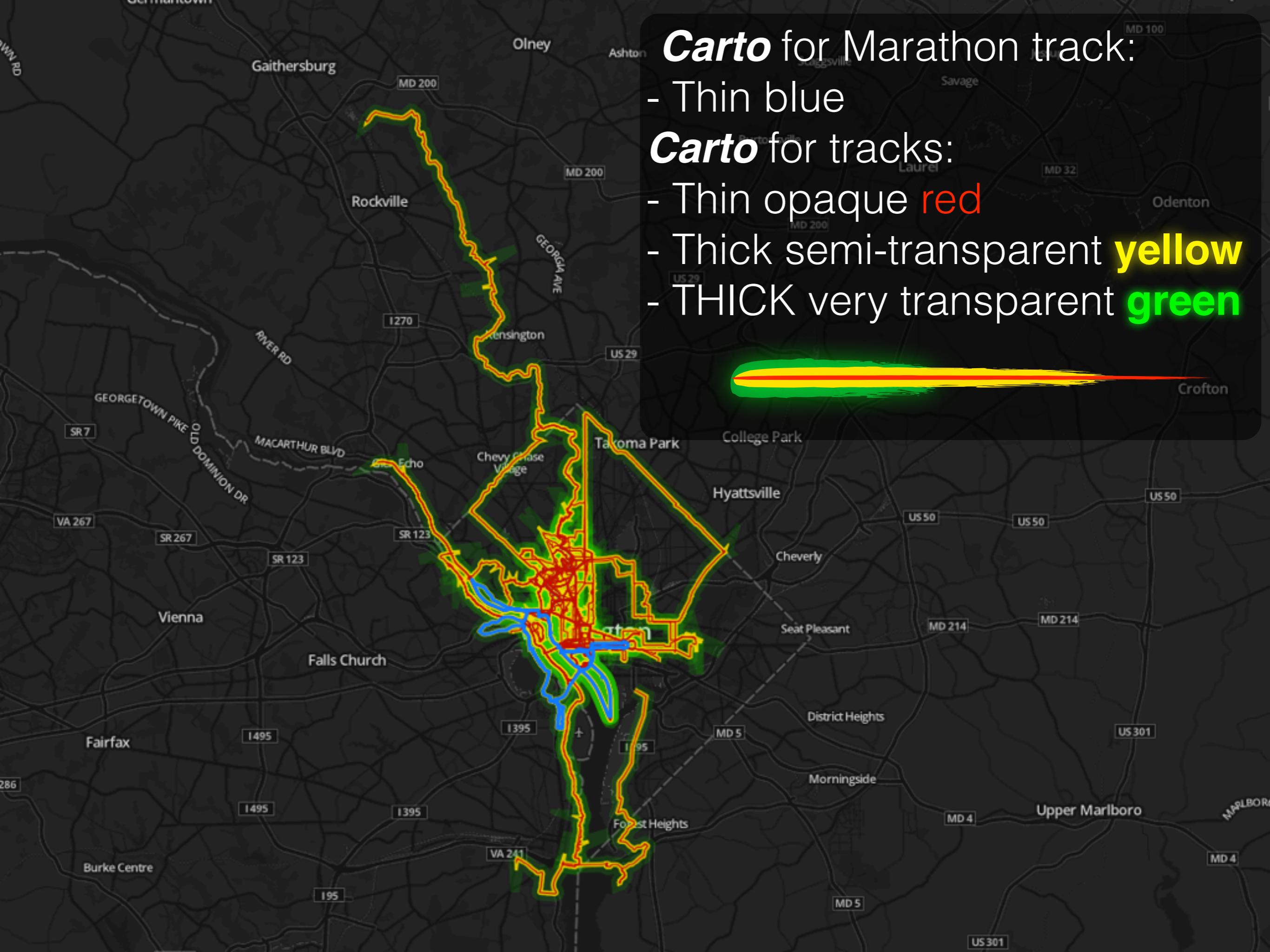
- Thin blue

Carto for tracks:

- Thin opaque red

- Thick semi-transparent yellow

- THICK very transparent green

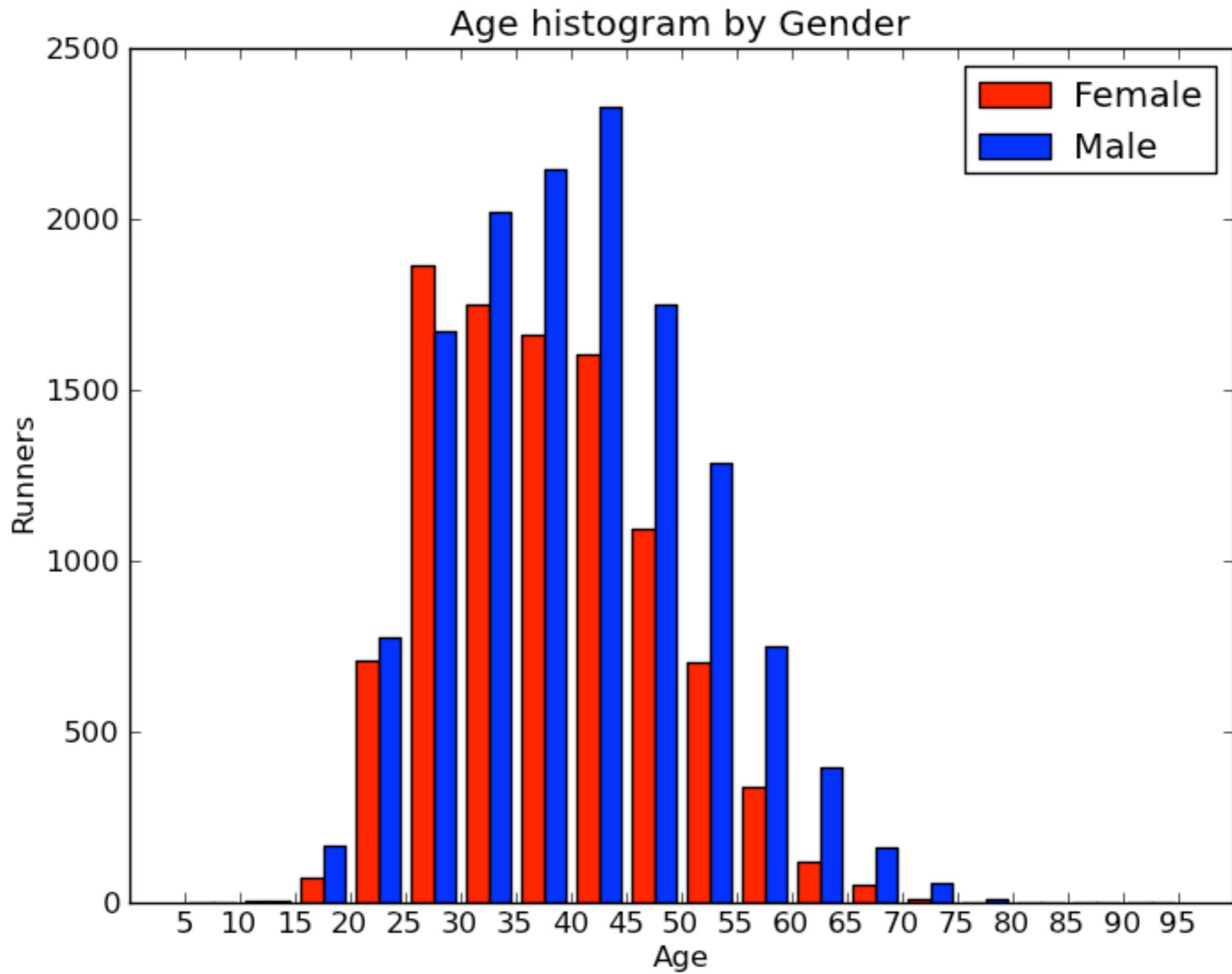




GPS **errors** contribute to create the circulatory artery scheme



20.000+ finishers, with their times, gender, ages, **City**, ...



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1.Run the Marine Corps Marathon [**optional**]

2.Import to Google Refine to fix names and geocode (via Yahoo):

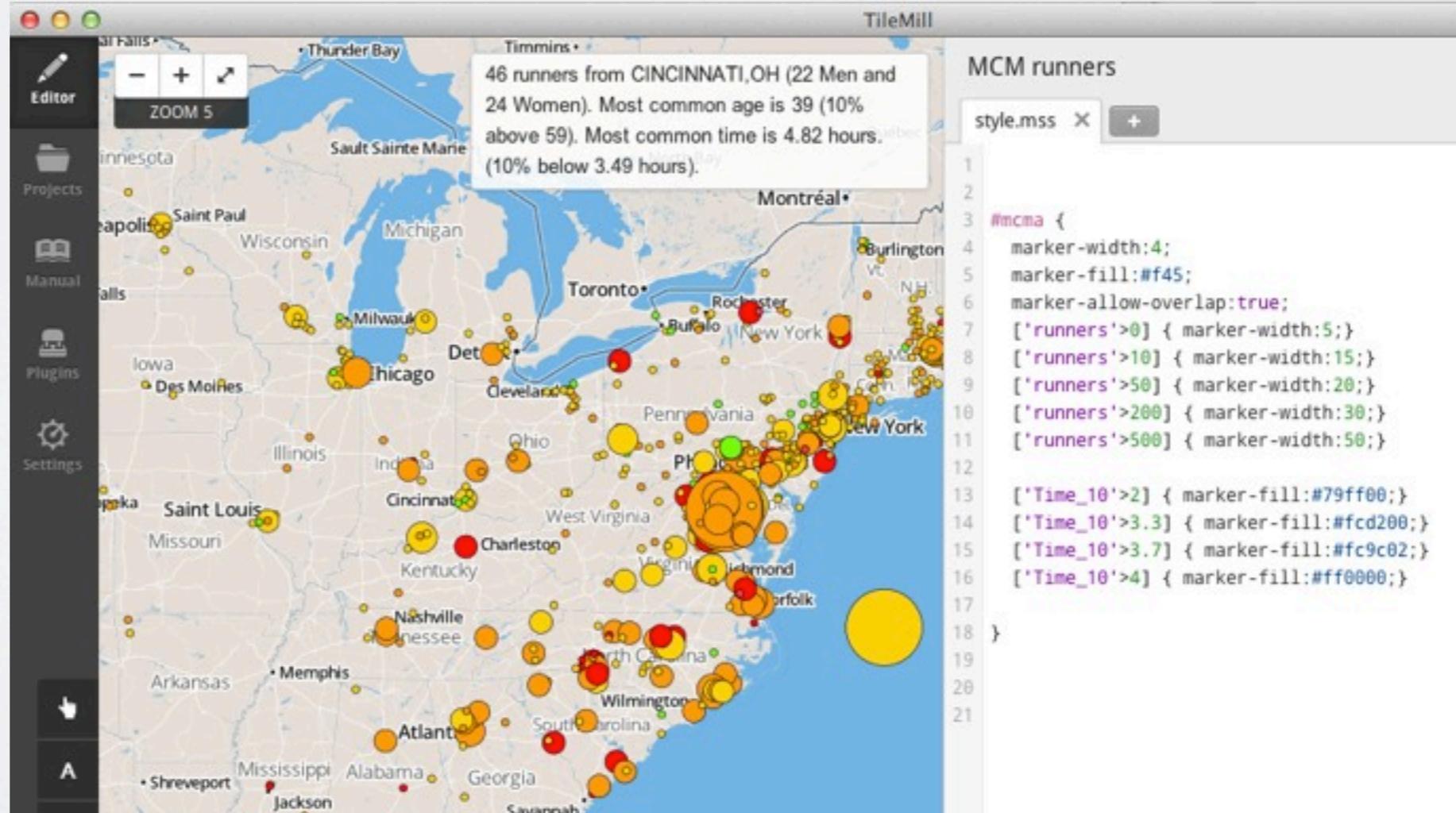
City	Location	State	Div	Age	Sex	ChipT	
COLORADO SPRINGS	Facet			MALES 25-29	29	M 2:20:20	
COLORADO SPRINGS	Text filter			MALES 25-29	26	M 2:22:39	
ELLIOTT CITY	Edit cells			MALES 26	M	2:23:3	
WASHINGTON	Edit column			Split into several columns...			
WASHINGTON	Transpose			Add column based on this column...			
	Sort...			Add column by fetching URLs...			

3.Aggregrate data by city with python

[Input]: Places=[r['Location'] for r in runner if 'Location' in r]

...

4.TileMill it

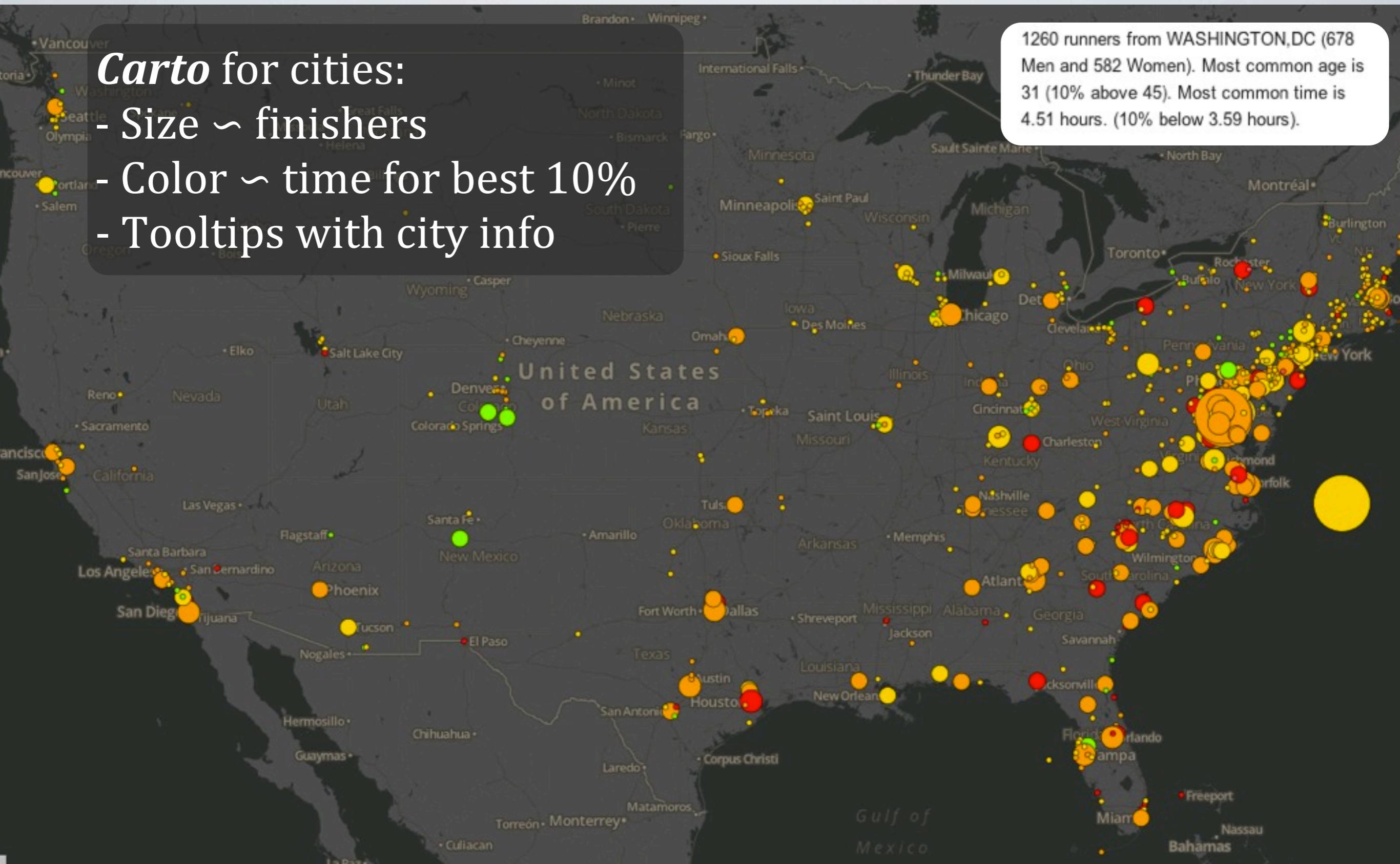


5.Publish in Mapbox

Carto for cities:

- Size ~ finishers
- Color ~ time for best 10%
- Tooltips with city info

1260 runners from WASHINGTON,DC (678 Men and 582 Women). Most common age is 31 (10% above 45). Most common time is 4.51 hours. (10% below 3.59 hours).





GPS



Customize geo
data



MapBox
Hosting + map
layers

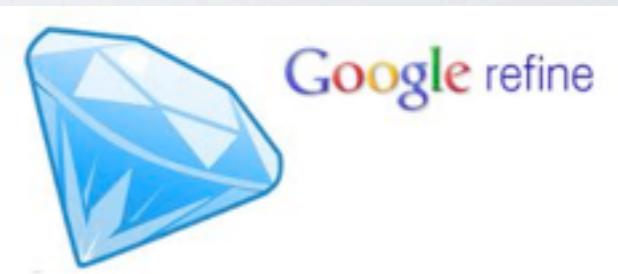
RunKeeper
Track, Measure, and Improve Your Fitness.
logging app with export



analyze data



~40.000 steps
(1 million steps in training)



Prepare (geo) data



geolocation of city names



