

The Data Desk  • Mar 28

Analysis, applications and automation from a team of reporters and computer programmers in the Los Angeles Times newsroom

By  Ben Welsh

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 Observable

SWANA population map

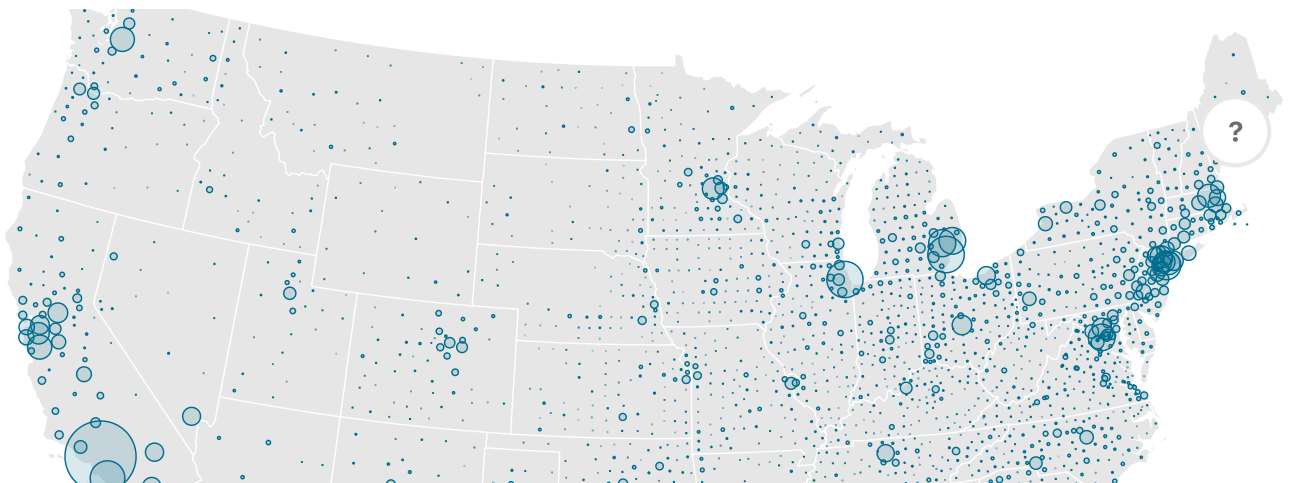
This analysis was developed for the March 28, 2019, Los Angeles Times story "Are Arabs and Iranians white? Census says yes, but many disagree".

It reported that roughly 3 million people of Southwest Asian, Middle Eastern or North African descent live in the United States. No county is home to more of these communities than Los Angeles, where more than 350,000 people can trace their roots to a region that stretches from Mauritania to the mountains of Afghanistan.

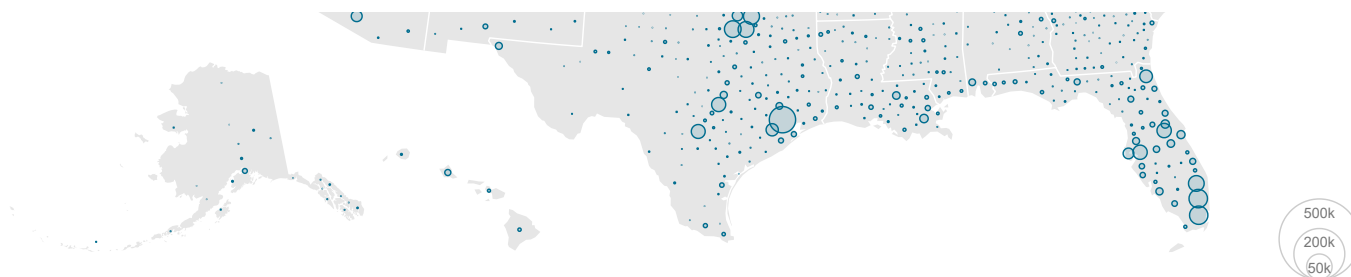
md`# SWANA population map

This analysis was developed for the March 28, 2019, Los Angeles Times story ["Are Arabs and Iranians white? Census says yes, but many disagree"] (<https://www.latimes.com/projects/la-me-census-middle-east-north-africa-race/>).

It reported that roughly 3 million people of Southwest Asian, Middle Eastern or North African descent live in the United States. No county is home to more of these communities than Los Angeles, where more than 350,000 people can trace their roots to a region that stretches from Mauritania to the mountains of Afghanistan.



 You have 10 unsaved changes. Fork this notebook to save.



```

chart = {
  const width = 960;
  const height = 600;
  var path = d3.geoPath().projection(projection);
  const formatNumber = d3.format(",.0f");
  const radius = d3.scaleSqrt().domain([0, 400000]).range([0, maxRadius]);

  const svg = d3.select(DOM.svg(width, height))
    .style("width", "100%")
    .style("height", "auto");

  svg.append("path")
    .datum(topojson.feature(us, us.objects.nation))
    .attr("fill", "#E6E6E6")
    .attr("d", path);

  svg.append("path")
    .datum(topojson.mesh(us, us.objects.states, (a, b) => a !== b))
    .attr("fill", "none")
    .attr("stroke", "white")
    .attr("stroke-linejoin", "round")
    .attr("d", path);

  const legend = svg.append("g")
    .attr("fill", "#777")
    .attr("transform", `translate(${width - 50}, ${height - 2})`)
    .attr("text-anchor", "middle")
    .style("font", "10px sans-serif")

```

?

```

    .data([50000, 200000, 500000])
    .join("g");

legend.append("circle")
  .attr("fill", "none")
  .attr("stroke", "#ccc")
  .attr("cy", d => -radius(d))
  .attr("r", radius);

legend.append("text")
  .attr("y", d => -2 * radius(d))
  .attr("dy", "1.3em")
  .text(d3.format(".1s"));

svg.append("g")
  .attr("fill", "#006d8f")
  .attr("fill-opacity", 0.15)
  .attr("stroke", "#006d8f")
  .attr("stroke-width", 1)
  .selectAll("circle")
  .data(topojson.feature(us, us.objects.counties).features
    .map(d => (d.population = population.get(d.id), d))
    .sort((a, b) => b.population - a.population))
  .join("circle")
  .attr("transform", d => `translate(${path.centroid(d.geometry)})`)
  .attr("r", d => radius(d.population))
  .append("title")
  .text(d => formatNumber(d.population));

// svg.append("g")
//   .selectAll("circle")
//   .data(selected_cities)
//   .join("circle")
//     .attr("transform", d => `translate(${path.centroid(d.geometry)})`)
//     .attr("fill", "black")
//     .attr("stroke-width", 0)
//     .attr("r", 3)
//     .attr("data-name", d => d.name)
//   .append("text")
//     .text(d => d.name)
//     .attr("font", "sans")
//     .attr("fill", "black")
//     .attr("dx", "10")
//     .attr("text-anchor", "left")

```

?

```
DOM.download(() => serialize(chart), undefined, "Save as SVG")
```

```
projection = f(t)
```

```
viewof maxRadius = slider({
  min: 10,
  max: 100,
  value: 25,
  step: 1,
  title: "Maximum radius"
})
```

```
csv = ▶ Array(3220) [Object, Object, Object, Object, Object, Object, Object, Object, Object,
```

```
projection = d3.geoAlbersUsa()
  .fitSize([960, 600], topojson.feature(us, us.objects.counties))
```

```
selected_cities = ▶ Array(7) [Object, Object, Object, Object, Object, Object, Object]
```

```
population = new Map((csv.map(d => [d.fips, +d.swana])))
```

```
csv = await
d3.csv("https://gist.githubusercontent.com/palewire/047b5e4d4db5e8831f7e7725af53744e/raw/
ae8f6f84acabe0f6289d8ac135e85d3d5aa7eb69/swana.csv")
```

```
selected_cities = {
  return cities.filter(
    d => d.population > 1500000 | d.name == "Detroit"
  )
}
```

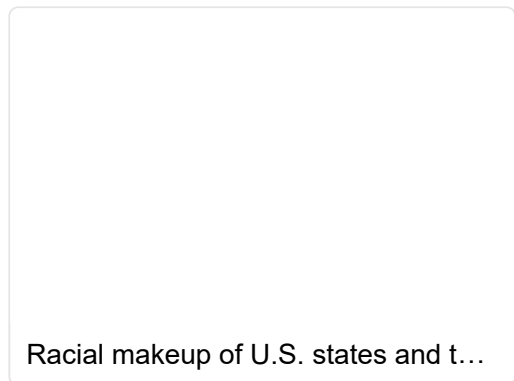
```
cities = {
  const json = await
d3.json("https://gist.githubusercontent.com/Vudude/cee778c78694fe4183aec99693e104b1/raw/6
108e7f372813f261c29ae085659ec66118285ac/cities.geo.json")
  return json.features.map(d => ({
```

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```
    name: d.properties.city,
    population: +d.properties.population
  )))
}
+ import {Slider} from @jasnkenas/inputs
...
d3 = Object({format: null, format: null, formatPrefix: null, timeFormat: null, timeFormat: null})
us = d3.json("https://gist.githubusercontent.com/jake-low/bd39a072eb4c0822d2c32473816e1c11/raw/5a3296a2049d6719d38b66d0b77c9359b81b8c4c/us-10m-unprojected.json")
+ import {serialize} from @mbostock/saving-svg
...
topojson = require("topojson-client@3")
+
...
+
...
d3 = require("d3@5")
+
...
import {serialize} from "@mbostock/saving-svg"
+
```

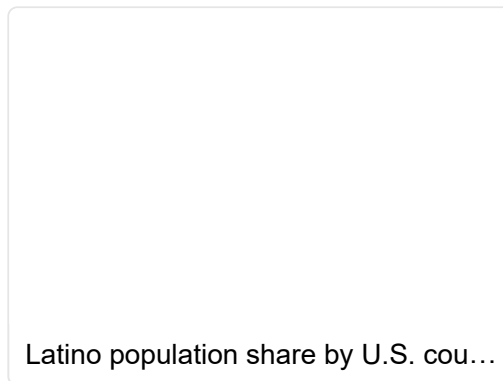
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