

Editor, @datadesk. Organizer, @california-civic-data-coalition. Archivist, @pastpages.

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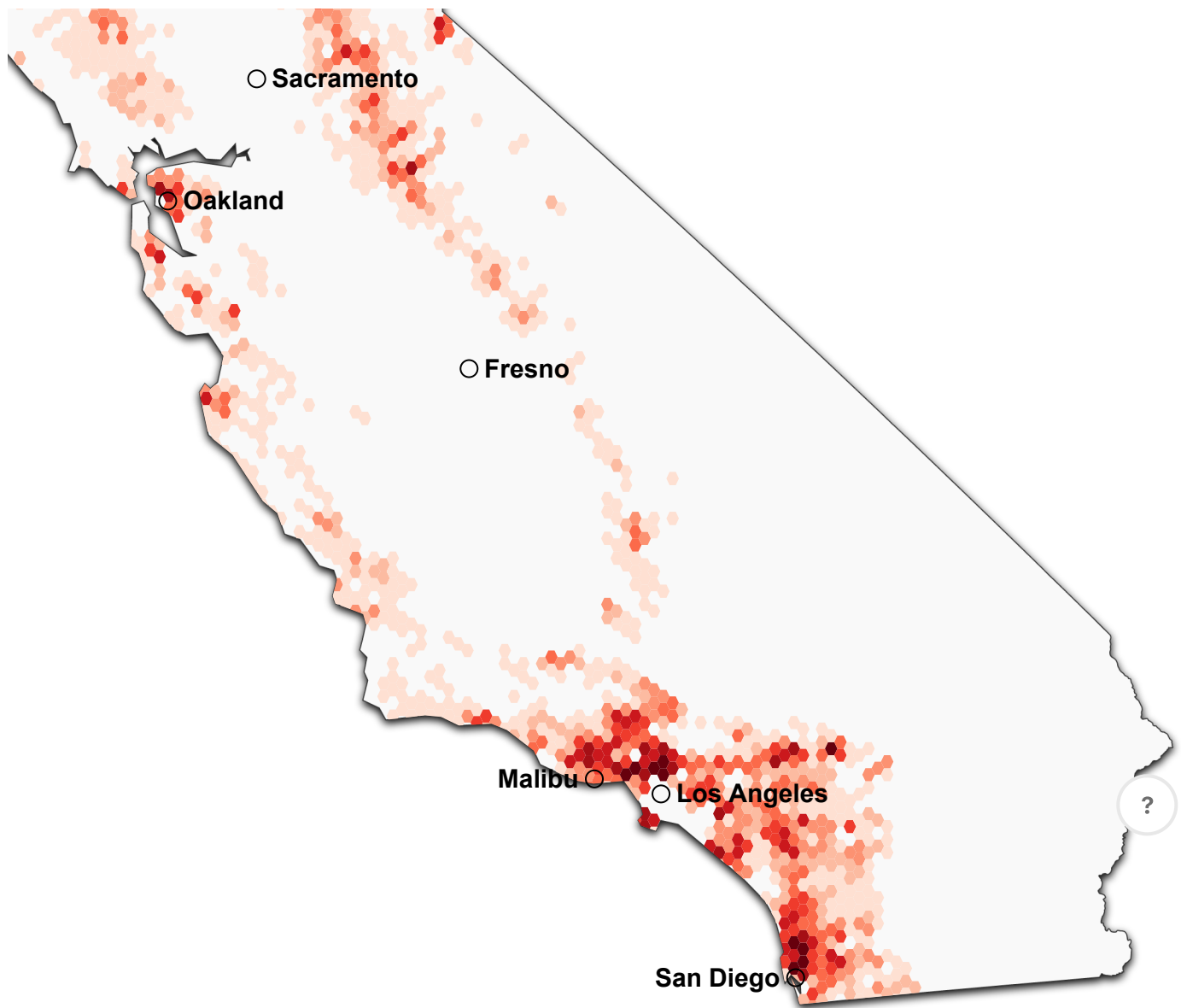
Here's one of several maps presented as part of the story.

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 You have 1 unsaved change. Fork this notebook to save.



<style>

SVG exports

Download map

Download legend

Configuration

```
formatTick = f(v)
```

```
formatTick = v => metric == 'in_pct' ? percent(v) : intcomma(roundHundred(v))
```

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```

percent = v => (v*100).toFixed(1) + "%"
+
⋮
intcomma = f(t)
intcomma = d3.format(",")
+
⋮
roundHundred = f(v)
roundHundred = v => Math.round(v/100)*100
+
⋮
legendBreaks = ► Array(9) [Array(2), Array(2), Array(2), Array(2), Array(2), Array(2), Array(2), Array(2), Array(2)]
legendBreaks = color.range().map(c => {
  var d = color.invertExtent(c);
  if (d[0] == null) d[0] = 1;
  return d;
})
+
⋮
legendAxis = f(1)
legendAxis = d3.axisBottom(legendScale)
  .tickSize(13)
  .tickValues(color.domain())
  .ticks(breaks)
+
⋮
legendScale = f(n)
legendScale = d3.scaleLinear()
  .domain(d3.extent(hexes.features.map(d => d.properties[metric])))
  .range([0, width*0.66]);
+
⋮
color = f(t)
color = d3.scaleThreshold()
  .domain(ckMeansGroups.map(d => d3.min(d)))
  .range(d3.schemeReds[breaks])
+
⋮
ckMeansGroups = ► Array(9) [Array(1061), Array(256), Array(146), Array(78), Array(55), Array(55), Array(55), Array(55), Array(55)]
ckMeansGroups = ss.ckmeans(hexes.features.map(d => d.properties[metric]), breaks)
+
⋮
breaks = 9
+
⋮
path = f(t)

```

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```
projection = f(t)

projection = d3.geoMercator()
  .center([-118.75, 37.5])
  .scale((1 << 19) / (40 * Math.PI))
  .translate([width / 2, height / 2])
```

```
height = 900
```

```
height = 900
```

Data

```
cities = ► Array(8) [Object, Object, Object, Object, Object, Object, Object, Object]
```

```
cities = [
  {
    name: 'Los Angeles',
    coordinates: [-118.2437, 33.95],
  },
  {
    name: "Paradise",
    coordinates: [-121.60, 39.7596]
  },
  {
    name: "Oakland",
    coordinates: [-122.21, 37.81]
  },
  {
    name: "Redding",
    coordinates: [-122.3917, 40.5865]
  },
  {
    name: "Sacramento",
    coordinates: [-121.4944, 38.5816]
  },
  {
    name: "Malibu",
    coordinates: [-118.7798, 34.05],
    x: "-9",
    anchor: "end"
  },
  {
    name: "San Diego",
```

```

    anchor: "end"
  },
  {
    name: "Fresno",
    coordinates: [-119.7871, 36.7378]
  }
]

```

```
state = ▶ Object {type: "Feature", properties: Object, geometry: Object}
```

```

state = {
  const url =
    "https://gist.githubusercontent.com/palewire/e001c971f2cab1664168658caa7536da/raw/state.json";
  const r = await d3.json(url);
  return topojson.feature(r, r.objects["state"]).features[0];
}

```

```

hexes = {
  const r = await d3.json(hexConfig.url);
  const layer = topojson.feature(r, r.objects[hexConfig.name]);

```



Fork



```

    features: layer.features.filter(d => d.properties[metric] >= minimum)
  };
}

```

```

hexConfig = {
  return {
    Big: {
      name: "big-hexes-with-analysis",
      url:
        "https://gist.githubusercontent.com/palewire/a57662d364a131bc4d17ca436cc4e20b/raw/big-hexes-with-analysis.json"
    },
    Small: {
      name: "small-hexes-with-analysis",
      url:
        "https://gist.githubusercontent.com/palewire/37354699bc3855ccf5e1b48eff6fc146/raw/small-hexes-with-analysis.json"
    }
  }
}

```

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```

minimum = {
  return {
    in_zone: 10,
    in_pct: 0.01,
    total: 1
  }[metric]
}

+ topojson = ► Object {bbox: f(topology), feature: f(topology, o), mesh: f(topology), meshAr:

+ d3 = ► Object {event: null, format: f(t), formatPrefix: f(t, n), timeFormat: f(t), timePar:

+ import {serialize} from @mbostock/saving-svg

+ import {select, slider} from @jashkenas/inputs

+

+

+

```

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