

Ben Welsh • Dec 18, 2018

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🔡 Listed in California fire zones, Maps, and Journalism

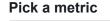
California buildings in severe fire hazard zones

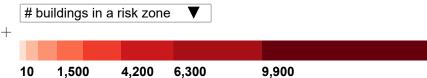
The Los Angeles Times conducted an analysis of California buildings within fire hazard zones for the Dec. 18, 2018, story "A million California buildings face wildfire risk. 'Extraordinary steps' are needed to protect them." It found that at least 1.1 million structures, roughly 1 in 10 in the state, are within the highest risk zones.

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

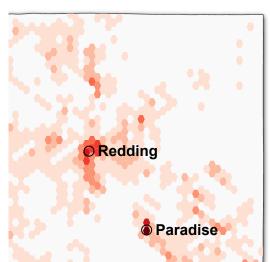


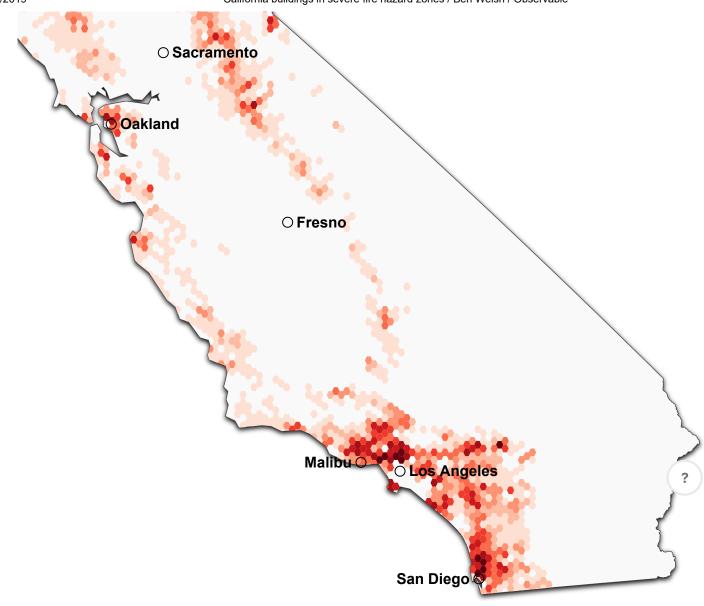












```
percent = v \Rightarrow (v*100).toFixed(1) + "%"
intcomma = f(t)
intcomma = d3.format(",")
roundHundred = f(v)
roundHundred = v \Rightarrow Math.round(v/100)*100
legendBreaks = ▶ Array(9) [Array(2), Array(2), Array(2)
legendBreaks = color.range().map(c => {
            var d = color.invertExtent(c);
            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 = \blacktriangleright Array(9) [Array(1061), Array(256), Array(146), Array(78), Array(55), Array(55)
ckMeansGroups = ss.ckmeans(hexes.features.map(d => d.properties[metric]), breaks)
breaks = 9
path = f(t)
```

```
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]
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.j
  son";
    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]);
0
      Q
      teatures: layer.teatures.tilter(a => a.properties[metric] >= minimum)
    };
  }
  hexConfig = {
    return {
      Big: {
        name: "big-hexes-with-analysis",
  "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"
```

```
8/28/2019
                                      California buildings in severe fire hazard zones / Ben Welsh / Observable
     minimum = {
        return {
          in_zone: 10,
          in_pct: 0.01,
          total: 1
        }[metric]
   + topojson = \blacktriangleright Object {bbox: f(\text{topology}), feature: f(\text{topology}, o), mesh: f(\text{topology}), meshAre
   + d3 = \triangleright Object {event: null, format: f(t), formatPrefix: f(t), timeFormat: f(t), timePare
   + import {serialize} from @mbostock/saving-svg
   + import {select, slider} from @jashkenas/inputs
   +
```

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