Styling Maps Using CartoCSS

With CartoCSS you style a layer by setting properties on a layer's features. You do this by writing a series of statements. A statement takes the following form:

```
selector {
     property: value;
}
```

Use as many property-value pairs in a statement as is necessary.

Common properties

Markers (points)

marker-fill inner part's color (color string)

marker-fill-opacity inner part's opacity (0 to 1, lower is less visible)

marker-line-color outer part's color marker-line-opacity outer part's opacity marker-height height (number, pixels) marker-width

marker-allow-overlap draw all markers, even if they'll overlap (true/false)

width (number, pixels)

Lines

line-color color of line (color string)

line-width width of line (number, pixels)

opacity of line (see marker-fill-opacity) line-opacity

Polygons

polygon-fill color of inside of polygon polygon-opacity opacity of inside of polygon

(Style the outside of polygons using line-* properties.)

See all properties in the official documentation: https://www.mapbox.com/carto/api/2.1.0/

Advanced selectors

Conditional selectors

```
Style by the zoom level of the map:
#layer-name[zoom >= 5] { ... }
Style features by their attributes:
      #layer-name[attribute = value] { ... }
for example:
      #buildings[state = 'New York'] { ... }
Compare an attribute with a value using any of the following:
      = (equal),
      != (not equal),
      >= (greater than or equal),
      <= (less than or equal),
      > (greater than),
      < (less than)
Combining selectors
You can combine conditional selectors:
      #layer-name[attr1 = value1][attr2 > value2] { ... }
This statement will only apply to features where all conditions are true. You can combine as
many conditions as needed in this way.
Instead of writing
      #layer-name[attr1 = value1] {
            property: value;
      }
      #layer-name[attr2 > value2] {
            property: value;
      }
separate the selectors with a comma:
      #layer-name[attr1 = value1],
```

#layer-name[attr2 > value2] {

property: value;

```
}
and it's nicer to nest the selectors like so:
      #layer-name {
            [attr1 = value1],
            [attr2 > value2] {
                  property: value;
            }
      }
You will likely use multiple statements on one map:
      #layer-name[zoom >= 5] { ... }
      #layer-name[zoom >= 10] { ... }
      #layer-name[zoom >= 15] { ... }
but it is equivalent and preferred that these statements are nested:
      #layer-name {
            [zoom >= 5] { ... }
            [zoom >= 10] { ... }
            [zoom >= 15] { ... }
      }
Variables
Sometimes you will find yourself repeating values in your statements. Your statements can be
made more flexible using variables. Creating a variable looks like this:
      @variable: value;
for example:
      @roadcolor: #ff307a;
```

Then, instead of using the value in your statements, use @variable. For example:

line-color: @roadcolor;

#roads {

}