Custom SVG Paths

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Basics - The Path String

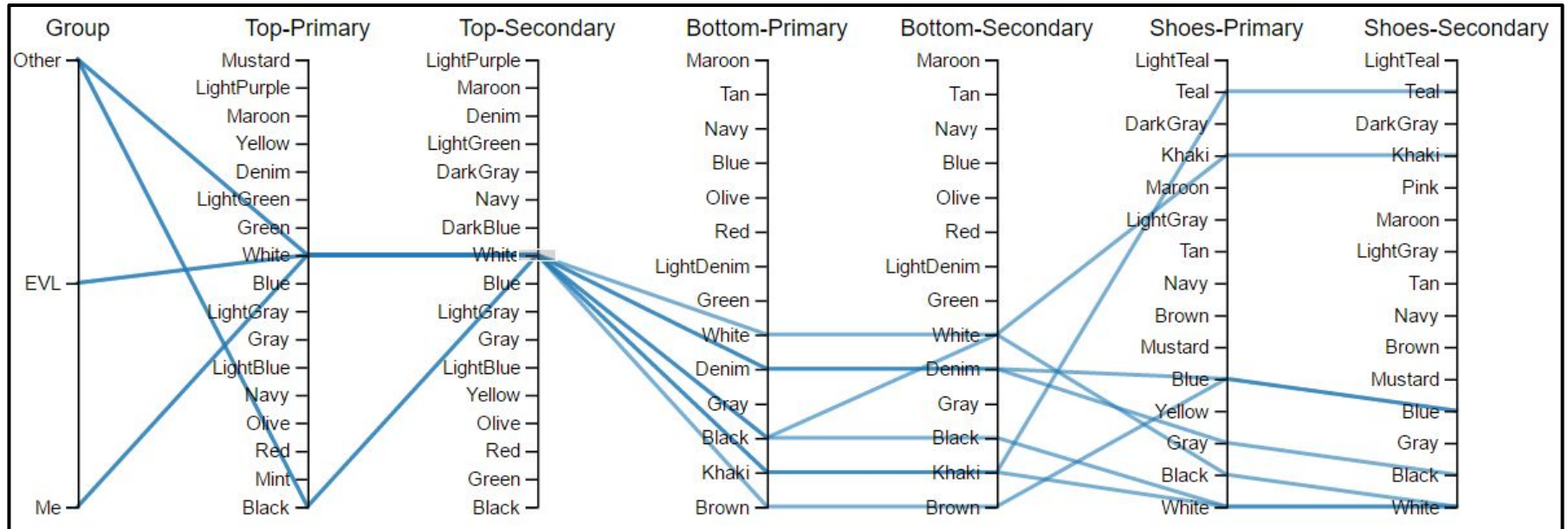- Move To `(M or m) x y:` With pen up, move to coordinate
- Horizontal Line `(H or h) x`: Draw line horizontally to coordinate
- Vertical Line `(V or v) y`: Draw line vertically to coordinate
- Line To `(L or l) x y`: Draw line to coordinate
- Close Path `(Z or z)`: Close the path (draw line to starting point).
- Curve functions...

Hard Coding a Path

```
// add icons for pies
let topPath = "M -10 -15 1 20 0 1 10 10 1 -6 6 1 -4 -4 1 2 20 1 -24 0 1 2 -20" +
  "1 -4 4 1 -6 -6 1 10 -10",
  botPath = "M -10 -15 1 20 0 1 4 30 1 -9 2 1 -5 -23 1 -5 23 1 -9 -2 1 4 -30 " +
  "Z",
  shoePath = "M -15 -8 1 -1 16 1 10 0 1 0 -3 1 5 3 1 17 0 1 0 -4 1 -2 -4 " +
  "1 -4 -2 1 -13 -6 1 -12 0 Z",
  groupPath = "";
```

Generalize Path Generation

Path Generation Code

```javascript
function calculatePath(d) {
    let points = Object.keys(axesScales).map((el, i) => {
        return "" + (margin.left + axisSpacing * i) + "," + axesScales[el](d[el]);
    });


    return "M" + points.join("L");
}
```