Compare locations/events with geobubble charts using leaflet

Compare locations (or events) with geobubble charts with {leaflet}
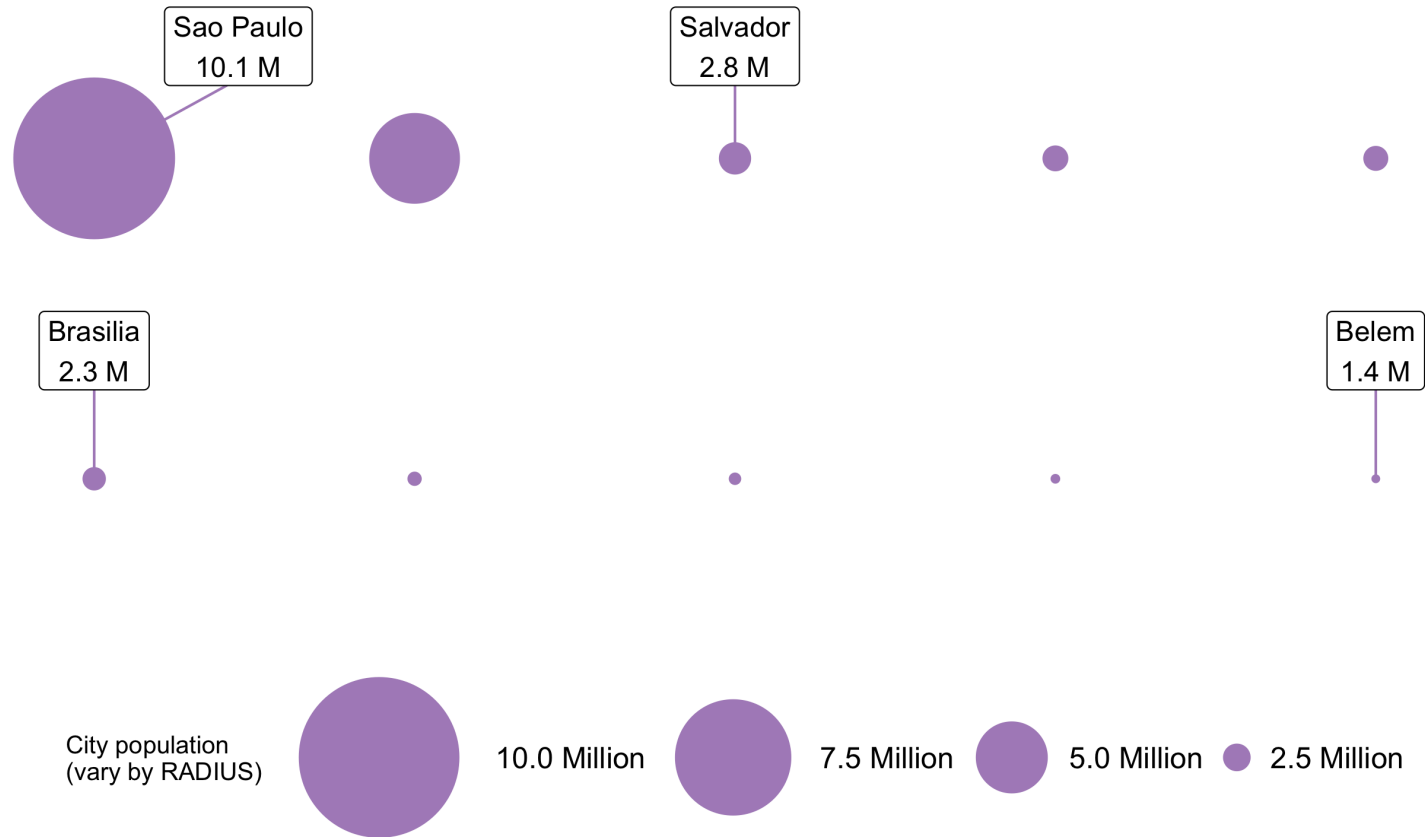
Geobubble charts
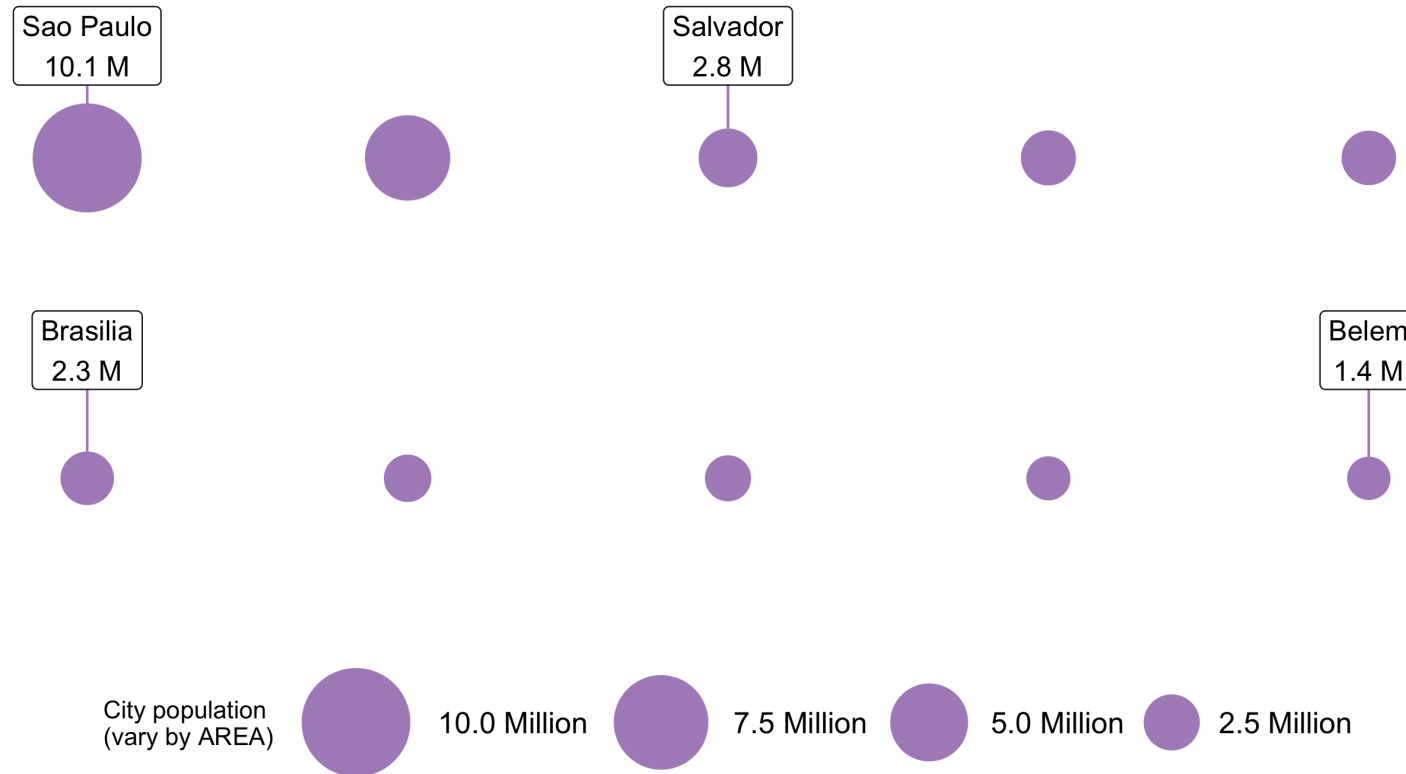
Bubbles don't scale well by radius

Sao Paulo
10.1 M

Salvador
2.8 M

Brasilia
2.3 M

Belem
1.4 M

City population
(vary by RADIUS)

10.0 Million

7.5 Million

5.0 Million

2.5 Million

Bubbles should be scaled by area

Sao Paulo
10.1 M

Salvador
2.8 M

Brasilia
2.3 M

Belem
1.4 M

City population
(vary by AREA)   10.0 Million   7.5 Million   5.0 Million   2.5 Million

We need to do maths ourselves

```
scale_bubble <- function(population) {
  sqrt(x) * scale_factor
}

... %>%
  addCircleMarkers(radius = ~scale_bubble(pop))
```
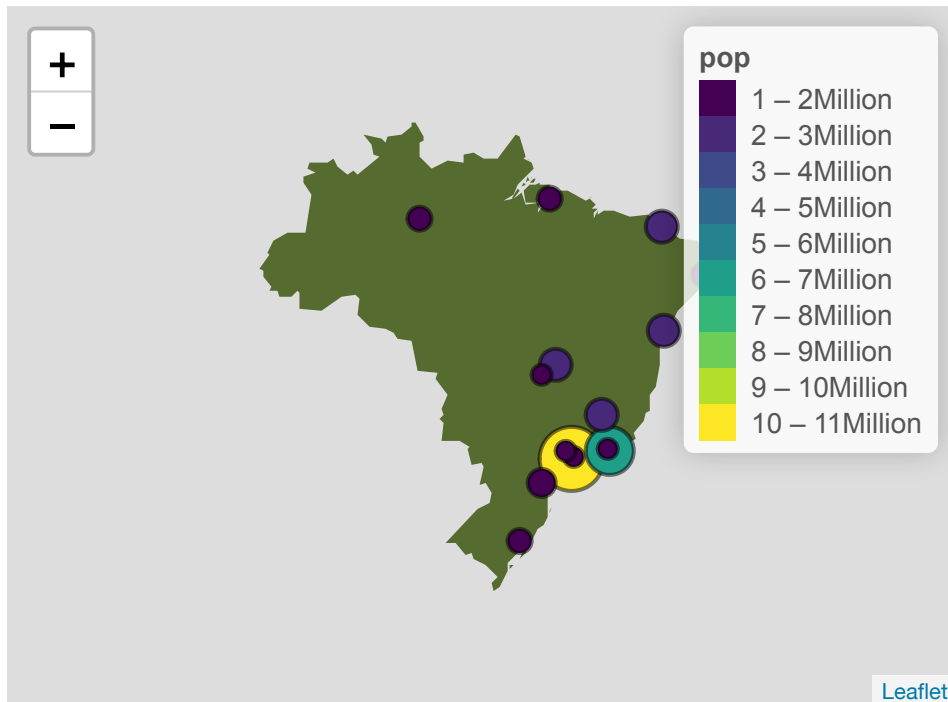
R for the Rest of Us
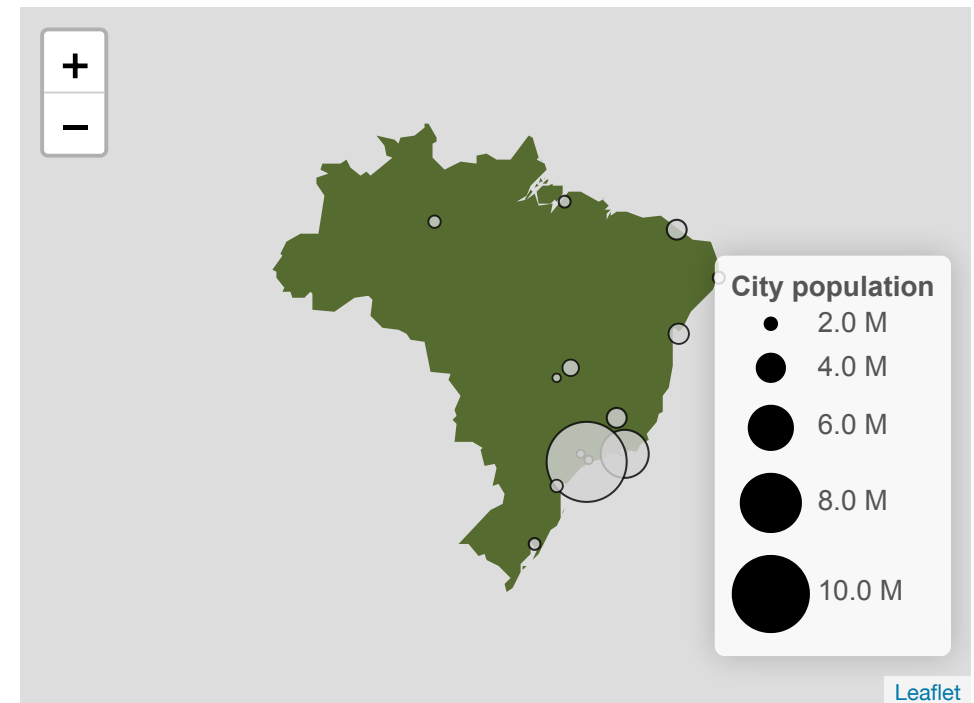
My turn

I'm going to recreate this geobubble chart.

What about legends?

The `{leaflet}` package doesn't contain a size scale legend.
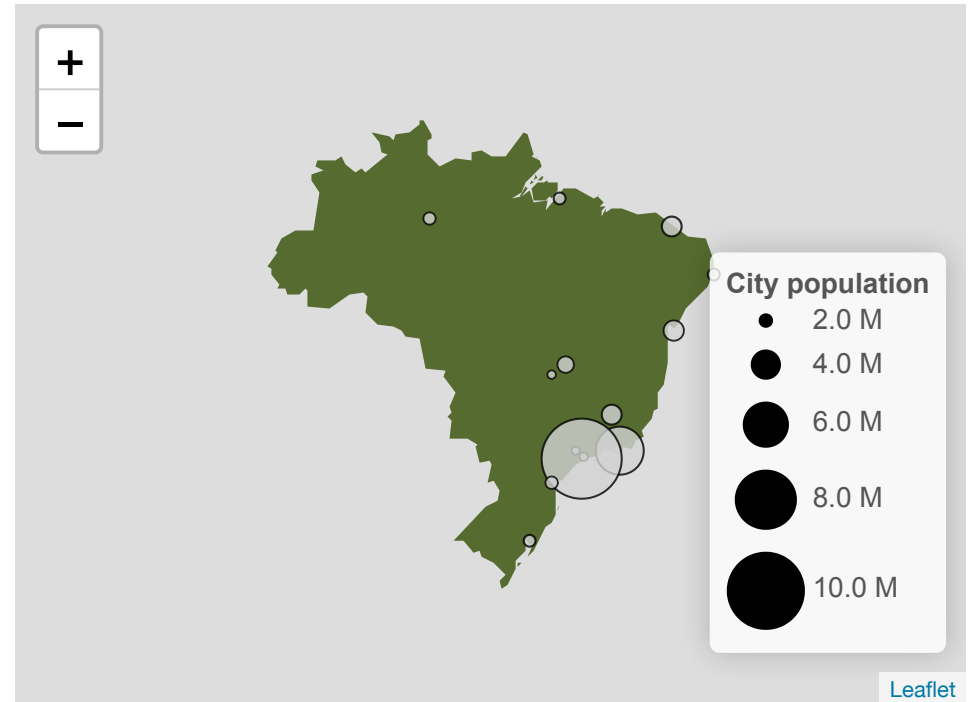

The {leaflegend} package adds size scale legend

R for the Rest of Us

Issues with {leaflegend}

- The order of points cannot be changed for smaller cities to show on top.

- The bubble sizes change anyway when the user zooms

Your turn

Use the `your-turn.R` script in 03_05 to create this geobubble chart of the busiest airports in the US.

- Ensure small circles are not overlapped by bigger circles

- Give the circles both a fill color and border color

- Add a label to each airport