

# Leaflet Maps

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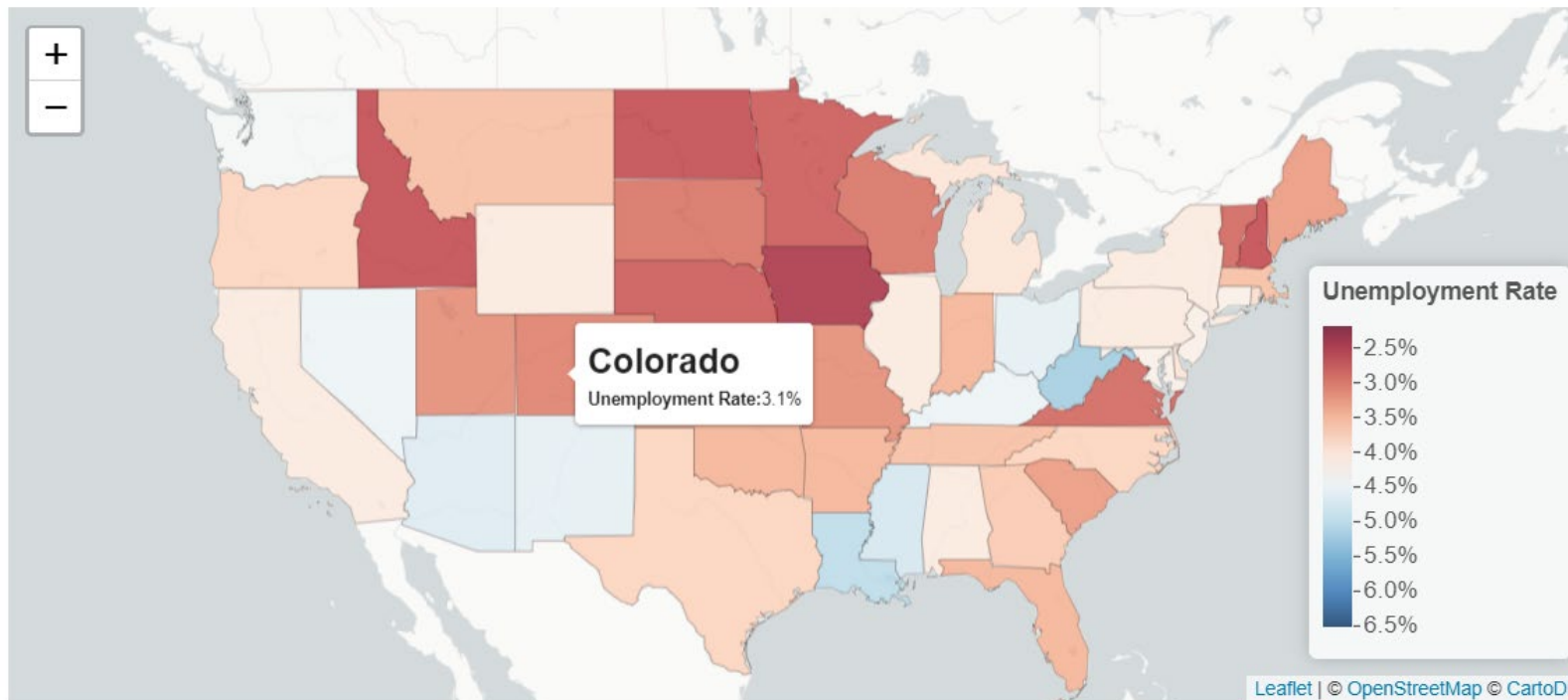
Government Advances in Statistical Processing Workshop  
25 October 2018



# install.packages('leaflet')

■ Demonstration App and Tutorial Available at:

▶ <https://osmrbls.shinyapps.io/Leaflet-Tutorial-App/>



# library(leaflet)

- Pros and Cons of Using Leaflet
- Building a Basic Leaflet Map
- Map Components
  - ▶ Basemaps
  - ▶ Basic Data Types
    - Points
    - Lines
    - Polygons
    - Raster Images
  - ▶ Popups, Hovers, & Legends



# leaflet()

## ■ Pros

- ▶ Zoom functionality
- ▶ Interactivity (Click & Hover Messages)
- ▶ Great for applications like R Shiny and for webpages

## ■ Cons

- ▶ Must be connected to the internet
- ▶ no way to easily output the Leaflet map as an image
- ▶ Not great for documents
- ▶ Alaska and Hawaii can cause hassles

# addTiles()

addTiles()



addProviderTiles("CartoDB.Positron")



addProviderTiles("Stamen.Toner")

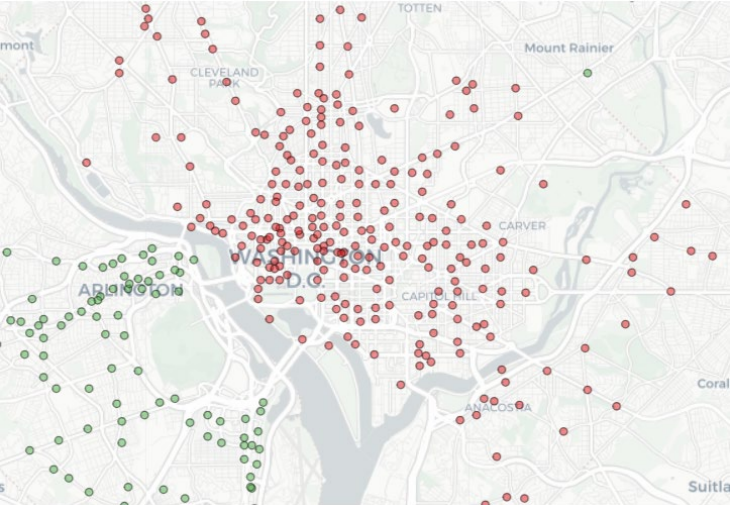


addProviderTiles("OpenStreetMap.BlackAndWhite")

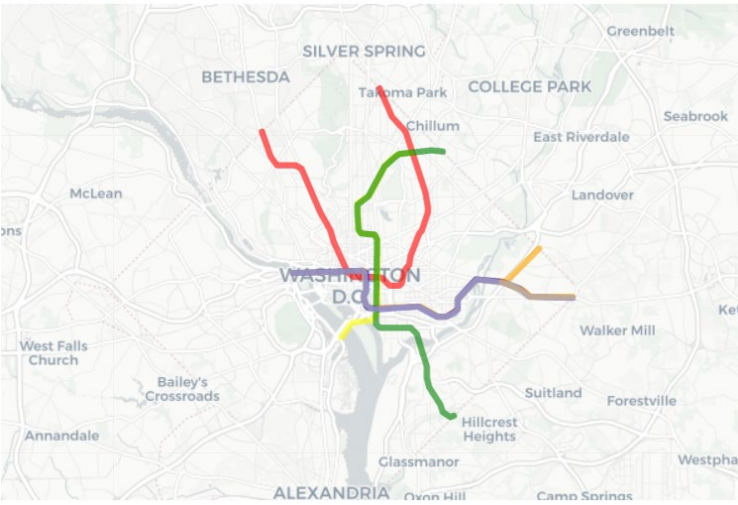


# addCircleMarkers(), addPolyLines(), addPolygons(), & addRasterImage()

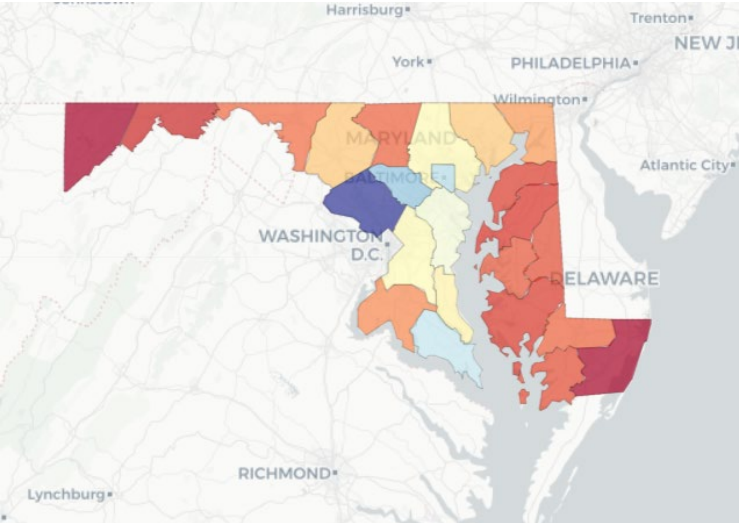
Points



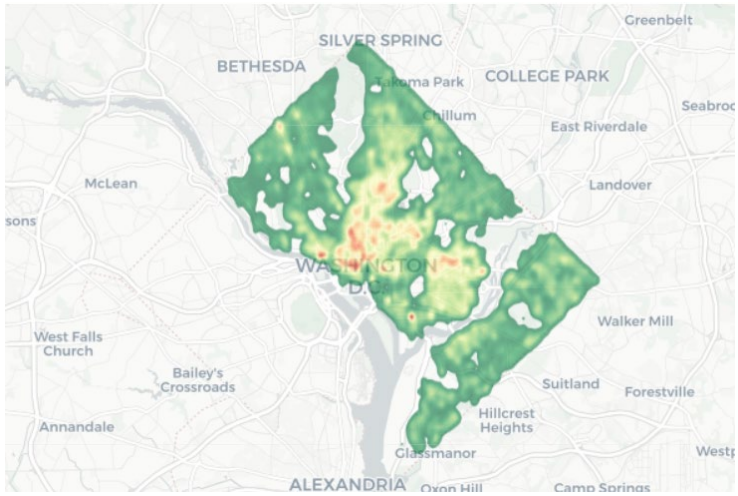
Lines



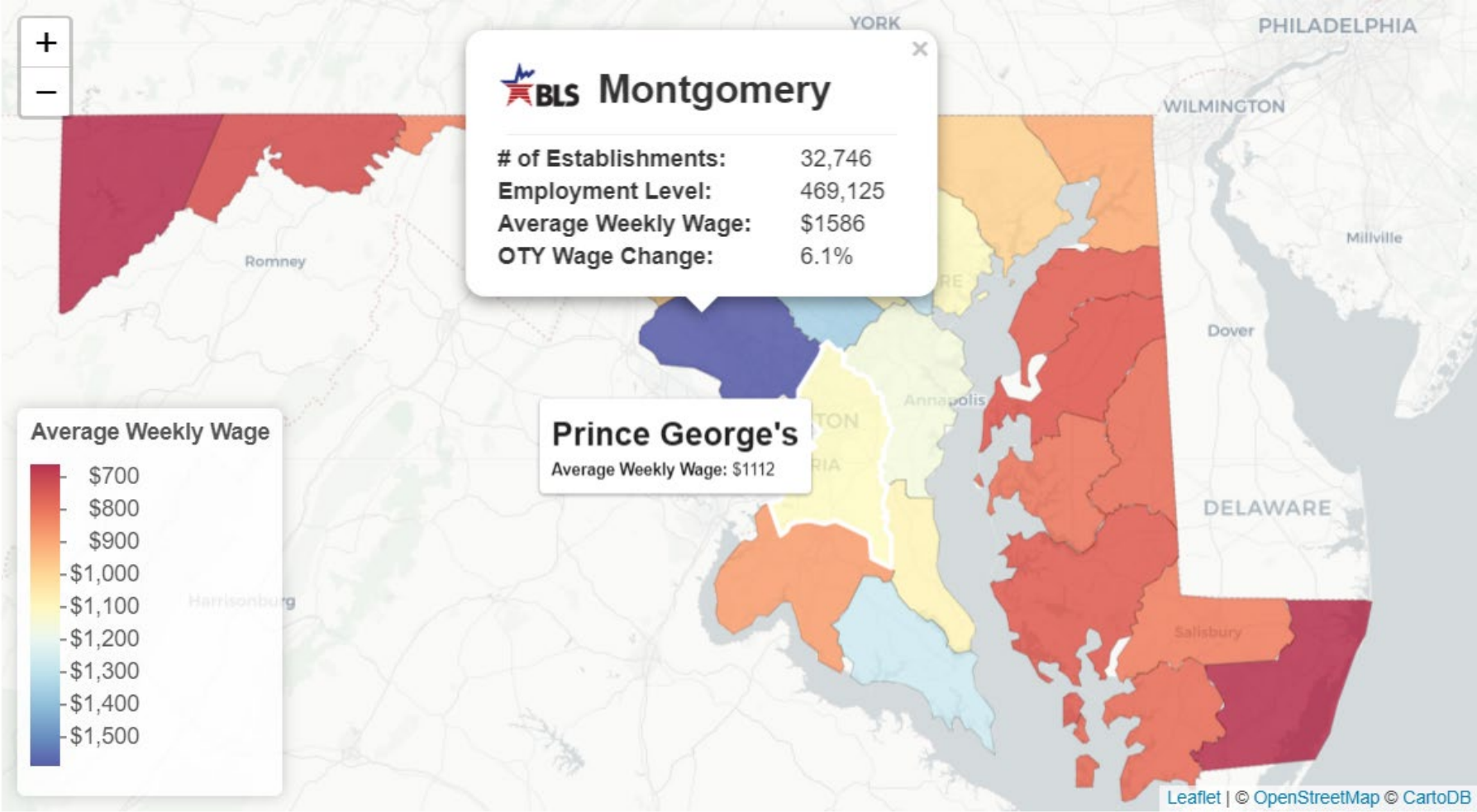
Polygons



Raster Image



# popup=popup, label=hover, & addLegend()



# Contact Information

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