

An introduction to ggmap

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How to use ggmap?

1 Download the map raster

- 1 Define location
- 2 Define map source, type, and colour
- 3 Fine tune the scale of the map using zoom

2 Plotting the maps and data

- 1 Plot the raster
- 2 Add points with latitude and longitude coordinates

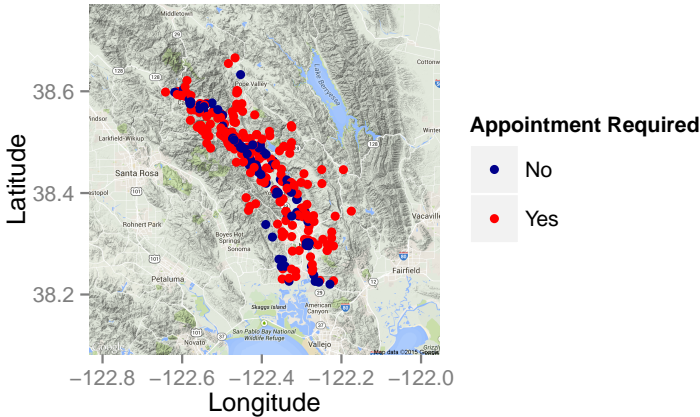
Define location

- Location or address
- Latitude and Longitude
- Bounding box (lower left lon, lower left lat, upper right lon, upper right lat)

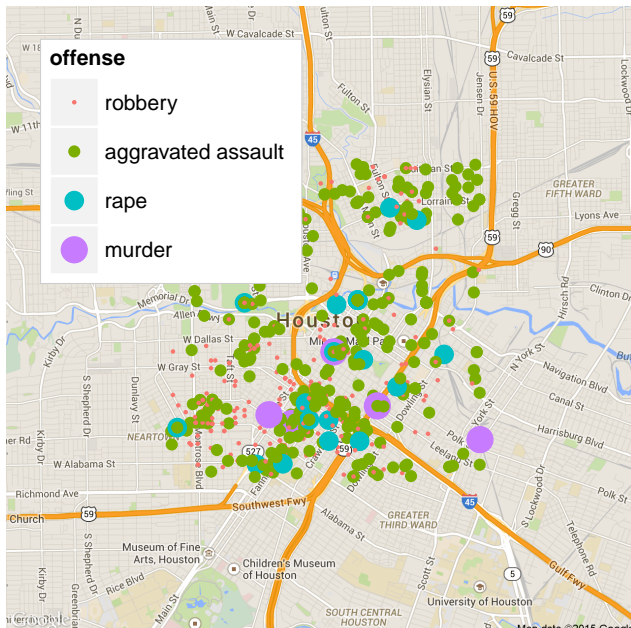
Define map source, type, and colour

- stamen: `maptype = c('terrain', 'toner', 'watercolor')`
- google: `maptype = c('roadmap', 'terrain', 'satellite', 'hybrid')`
- osm: open street map
- cloudmade: 1000s of maps, but an api key must be obtained from <http://cloudmade.com>

Exercise: Napa Valley Wine Tasting



Houston Crime Data



Houston Crime Data

