

Plotting Valley Bike Stations

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2019-11-05

Install Package

Before we start, make sure that the `ValleyBikes` package is installed in your computer.

```
devtools::install_github("Amherst-Statistics/ValleyBikes")
```

Load Package

To plot the stations we will use the `ValleyBikes` package.

```
library(ValleyBikes)
library(ggplot2)
```

Plot Stations

The data is lazily loaded when it is needed. The package contains a dataframe of the stations.

```
glimpse(stations)
```

```
## Observations: 54
## Variables: 7
## $ serial_num    <dbl> 19, 50, 17, 22, 23, 13, 30, 603, 45, 2, 35, 43,...
## $ address       <chr> "330 Homestead Avenue Holyoke Community College..."
## $ station_name  <chr> "Holyoke Community College", "Congress Street",...
## $ num_docks     <int> 16, 10, 15, 17, 13, 4, 16, 10, 9, 16, 14, 10, 2...
## $ latitude      <dbl> 42.19513, 42.10925, 42.19757, 42.32858, 42.3167...
## $ longitude     <dbl> -72.65270, -72.59456, -72.60377, -72.64394, -72...
## $ community_name <chr> "Holyoke", "Springfield", "Holyoke", "Northampt..."
```

Now we plot them.

```
ggplot(stations, aes(x = longitude, y = latitude, color = community_name)) +
  geom_point(size = 4, shape = 1, stroke = 2) +
  labs(x = "Longitude", y = "Latitude",
       title = "Map of Valley Bike Stations",
       color = "Community")
```

