Tidy Tuesday Week 25: African American History

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The data related to this week's topic, african american history and Juneteenth, can be found here

Load necessary packages

```
library(maps)
library(dplyr)
library(tidyr)
library(sf)
library(ggplot2)
library(viridis)
```

Get the Data

```
blackpast <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/
census <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/20
slave_routes <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/da
african_names <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/
```

We will be making a bubble map to explore the ports

We want to do the ports that are fewer in number.

```
head(african_names)
```

```
## # A tibble: 6 x 11
##      id voyage_id name  gender   age height ship_name year_arrival
##   <dbl>     <dbl> <chr> <chr>  <dbl>  <dbl> <chr>            <dbl>
## 1     1      2314 Bora  Man       30   62.5 NS de Re~         1819
## 2     2      2315 Flam  Man       30   64   Fabiana           1819
## 3     3      2315 Dee   Man       28   65   Fabiana           1819
## 4     4      2315 Pao   Man       22   62.5 Fabiana           1819
## 5     5      2315 Mufa  Man       16   59   Fabiana           1819
## 6     6      2315 Latty Man       22   67.5 Fabiana           1819
## # ... with 3 more variables: port_disembark <chr>, port_embark <chr>,
## #   country_origin <chr>
```

```
african_names$port_embark <- as.factor(african_names$port_embark)
african_names$port_disembark <- as.factor(african_names$port_disembark)
levels(african_names$port_embark)
```

```
##  [1] "Ambriz"                          "Anomabu"
##  [3] "Badagry"                         "Bananas, Goree and Senegal"
##  [5] "Bight of Benin unspecified"      "Bight of Biafra unspecified"
##  [7] "Bimbia"                          "Bissau"
##  [9] "Bonny"                           "Cabinda"
## [11] "Cacheu"                          "Cameroons River"
## [13] "Cameroons, unspecified"          "Cap Lopez"
## [15] "Cape Mount"                      "Congo North"
## [17] "Congo River"                     "Corisco"
## [19] "Freetown"                        "Gabon"
## [21] "Gallinhas"                       "Gambia"
## [23] "Gold Coast unspecified"          "Gorée"
## [25] "Grand Bassa"                     "Grand Mesurado"
## [27] "Ile Principé"                    "Iles de Los"
## [29] "Iles Plantain"                   "Jacquin"
## [31] "Keta"                            "Lagos"
## [33] "Little Bassa"                    "Loango"
## [35] "Luanda"                          "Mano"
## [37] "Mayumba"                         "Mozambique"
## [39] "New Calabar"                     "Nova Redonda"
## [41] "Oerê"                            "Old Calabar"
## [43] "Ouidah"                          "Petit Popo"
## [45] "Popo"                            "Porto Novo"
## [47] "Quicombo"                        "Rio Brass"
## [49] "Rio Nun"                         "Rio Nunez"
## [51] "Rio Pongo"                       "Senegambia, unspecified"
## [53] "Sestos"                          "Sherbro"
## [55] "Sierra Leone unspecified"        "St. Paul"
## [57] "Trade Town"                      "West Central Africa unspecified"
## [59] "Windward Coast unspecified"
```

```
levels(african_names$port_disembark)
```

```
## [1] "Bahamas unspecified" "Freetown"            "Havana"
## [4] "Kingston, Jamaica"   "St. Helena"
```

There are 50-something port_embarks and only 5 port_disembarks, so we will be charting the port_disembark data.

Get Lat/Long data for our port_disembark data.

```
african_names.orig <- african_names

african_names$port_disembark <- gsub("Havana","23.1136,-82.3666",african_names$port_disembark) #Substit
african_names$port_disembark <- gsub("St. Helena","-15.555999,-5.415999", african_names$port_disembark)
african_names$port_disembark <- gsub("Bahamas unspecified","25.0443,-77.3504", african_names$port_disem
```

```
african_names$port_disembark <- gsub("Freetown", "8.4657,-13.2317", african_names$port_disembark) #Subs
african_names$port_disembark <- gsub("Kingston, Jamaica", "18.0179,-76.8099", african_names$port_disemba
african_names_LL <- separate(african_names, port_disembark, into = c("Lat", "Long"), sep=",") #Separate

african_names_LL$port_disembark <- african_names.orig$port_disembark

str(unique(african_names_LL$Lat)) #Check that there are five latitudes
```

```
##  chr [1:5] "8.4657" "23.1136" "25.0443" "18.0179" "-15.555999"
```

```
str(unique(african_names_LL$Long)) #Check that there are five longitudes
```

```
##  chr [1:5] "-13.2317" "-82.3666" "-77.3504" "-76.8099" "-5.415999"
```

Plot data

```
port_disembark <- african_names_LL[,c(3,9:10,13)]
port_disembark <- port_disembark %>% group_by(port_disembark) %>% mutate(Pop=n()) %>% select(-name)
port_disembark <- port_disembark[!duplicated(port_disembark), ]
```

Make the map!

```
# ggplot() +
#   geom_polygon(data = port_disembark, aes(x=Long, y = Lat, group = port_disembark), fill="grey", alph
#   geom_point( data=port_disembark, aes(x=Long, y=Lat, size=Pop, color=Pop)) +
#   #scale_size_continuous(range=c(1,12)) +
#   #scale_color_viridis(trans="log") +
#   #theme_void() +
#   #ylim(50,59) +
#   coord_map()
```