

# 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/2020/06/16/blackpast.csv')
census <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2020/06/16/census.csv')
slave_routes <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2020/06/16/slave_routes.csv')
african_names <- readr::read_csv('https://raw.githubusercontent.com/rfordatascience/tidytuesday/master/data/2020/06/16/african_names.csv')
```

## 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_disembark)
```

```
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_disembark)
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), ]
print(port_disembark)
```

```
## # A tibble: 5 x 4
## # Groups:   port_disembark [5]
##   Lat      Long port_disembark      Pop
##   <chr>    <chr>    <fct>          <int>
## 1 8.4657   -13.2317 Freetown         81009
## 2 23.1136  -82.3666 Havana          10058
## 3 25.0443  -77.3504 Bahamas unspecified    183
## 4 18.0179  -76.8099 Kingston, Jamaica    144
## 5 -15.555999 -5.415999 St. Helena         96
```

Make the map!

```
# ggplot() +
#   geom_polygon(data = port_disembark, aes(x=Long, y = Lat, group = port_disembark), fill="grey", alpha=0.5) +
#   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()
```