

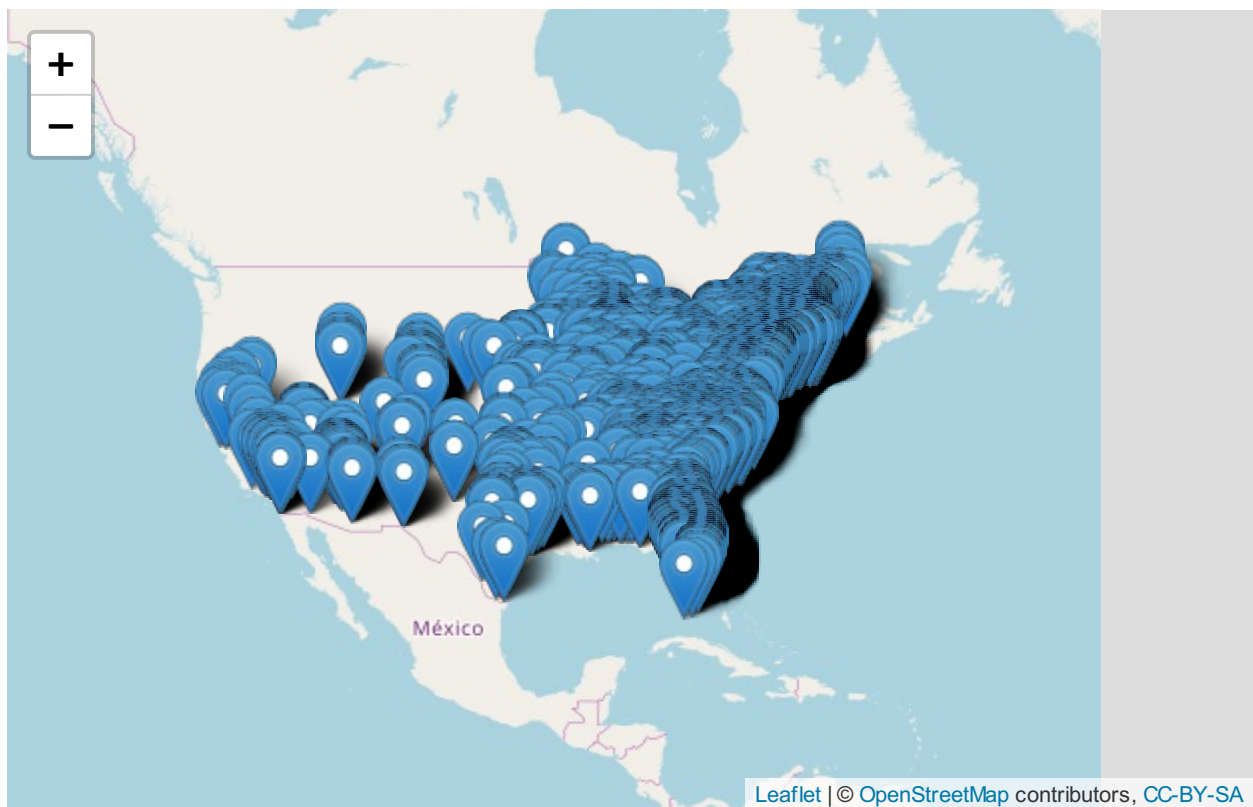
partial_pdf

me

11/30/2019

Dunkin' Leaflet

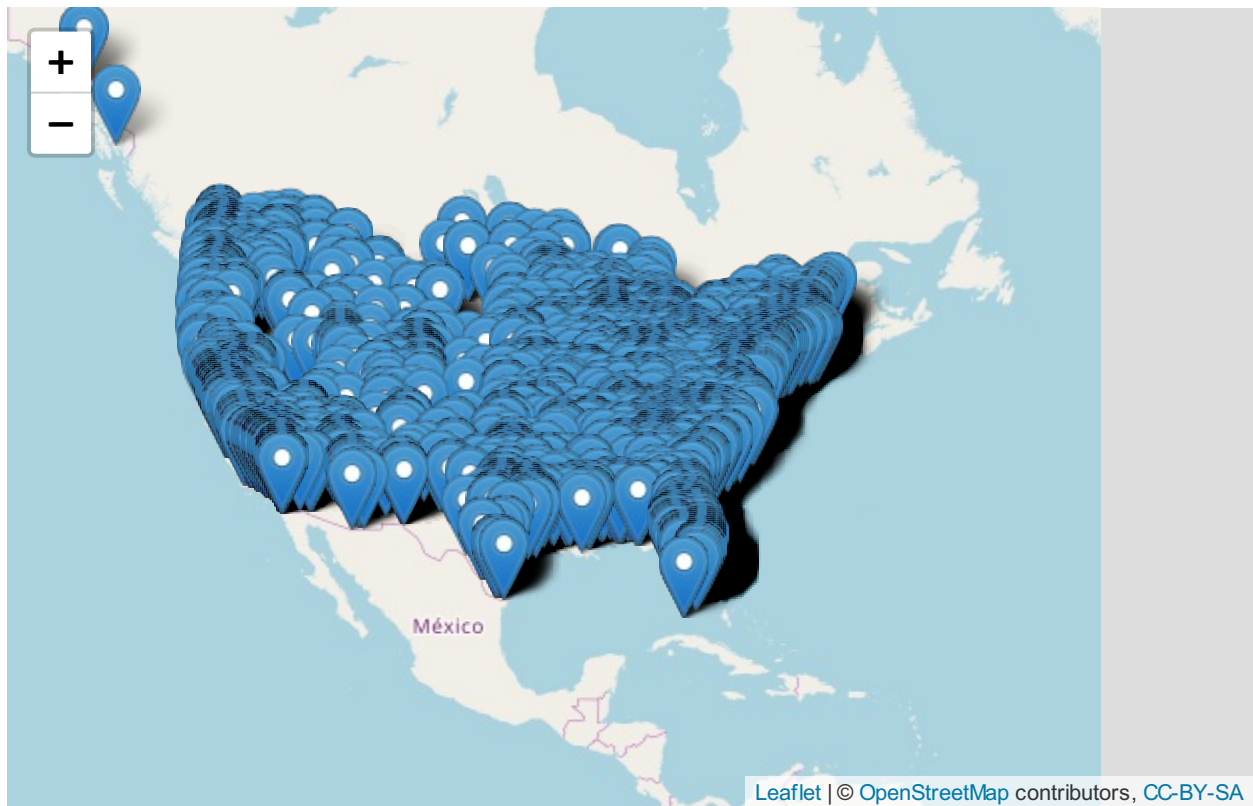
```
dnknloc %>%  
  leaflet(width = "100%", options = leafletOptions(zoomSnap = 0.1)) %>%  
  setView(lng = -100, lat = 40, zoom = 3) %>%  
  addTiles() %>%  
  addMarkers(~Longitude, ~Latitude, popup = dnknLabel, label = dnknLabel)
```



Starbucks Leaflet

```
sbuxloc %>%  
  leaflet(width = "100%", options = leafletOptions(zoomSnap = 0.1)) %>%  
  setView(lng = -100, lat = 40, zoom = 3) %>%
```

```
addTiles() %>%
addMarkers(~Longitude, ~Latitude, popup = sbuxLabel, label = sbuxLabel)
```

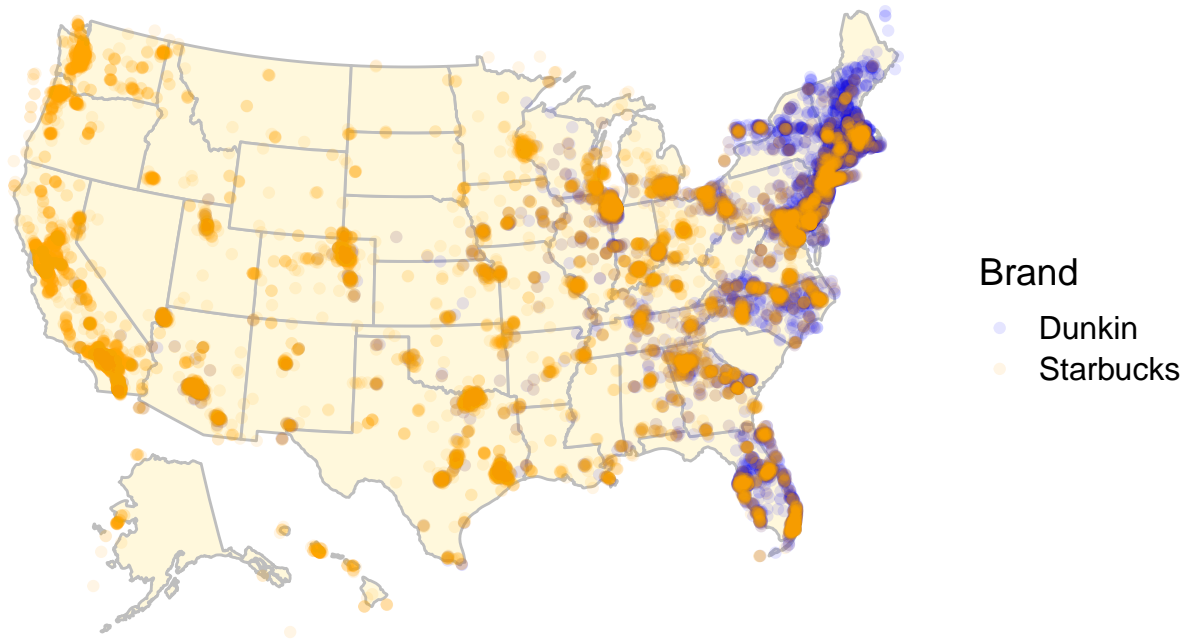


Locations Graphs

```
ggplot() +
  geom_polygon(data = us_map(regions = "states"), mapping = aes(x = x, y = y, group = group), color = "#f0f0f0") +
  geom_point(data = modified_values, mapping = aes(x = long, y = lat, color = Store), alpha = 0.1) +
  coord_equal() +
  theme_map() +
  scale_color_manual(values = c("blue", "orange")) +
  labs(title = "Restuarant Locations in the US",
       subtitle = "Dunkin' vs Starbucks") +
  guides(color = guide_legend(title = "Brand")) +
  theme(plot.title = element_text(hjust = 0.5),
       plot.subtitle = element_text(hjust = 0.5))
```

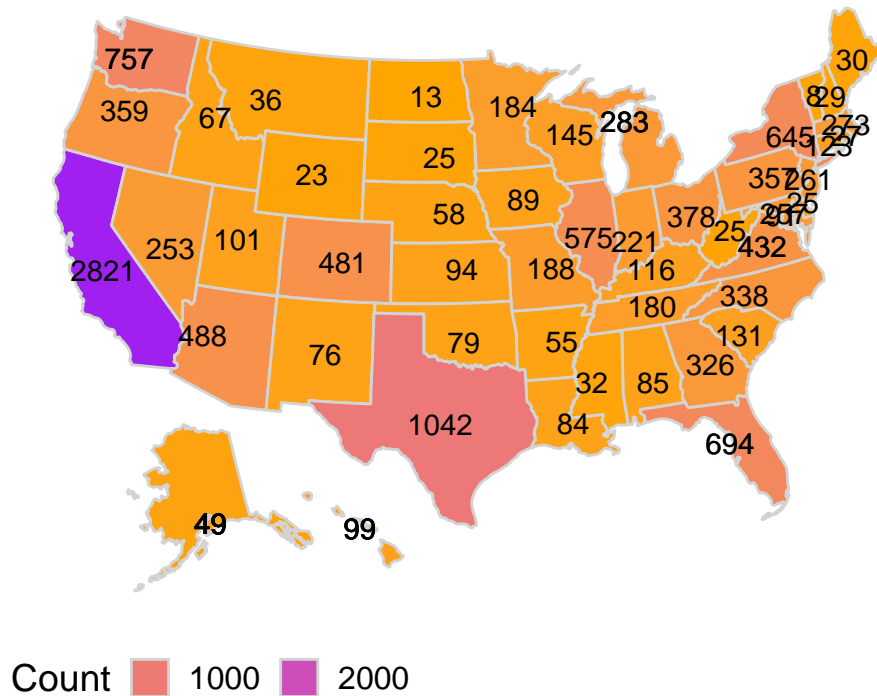
Restuarant Locations in the US

Dunkin' vs Starbucks



US Starbuck's Location

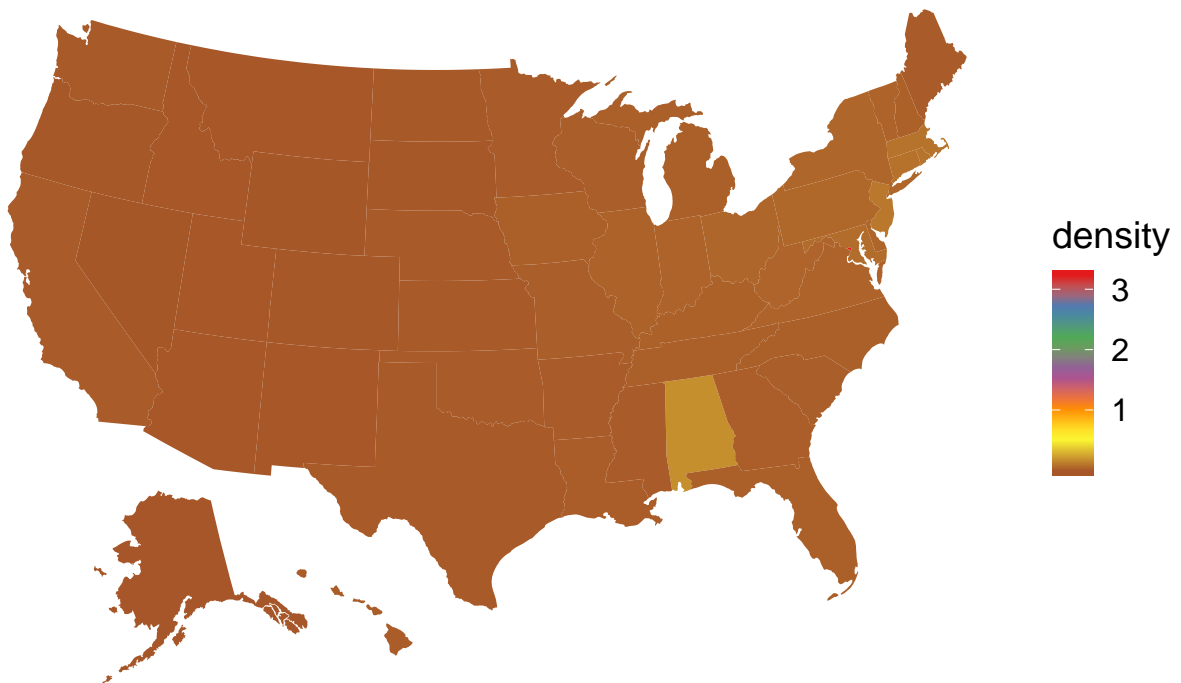
Average # of Stores



Density with DC

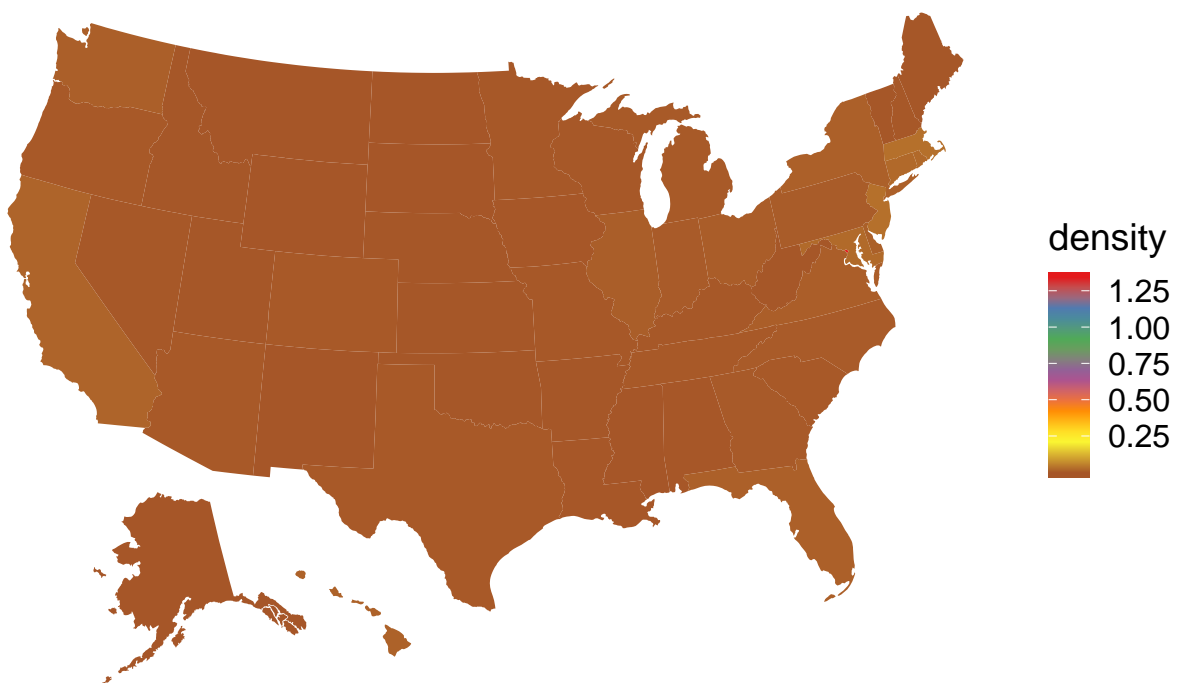
```
DNKN_loc %>%
  ggplot(mapping = aes(x = x, y = y, group = group, fill = density)) +
  geom_polygon() +
  coord_equal() +
  theme_map() +
  scale_fill_distiller(palette = "Set1") +
  labs(title = "Dunkin' Locations") +
  theme(plot.title = element_text(hjust = 0.5))
```

Dunkin' Locations



```
SBUX_loc %>%  
  ggplot(mapping = aes(x = x, y = y, group = group, fill = density)) +  
  geom_polygon() +  
  coord_equal() +  
  theme_map() +  
  scale_fill_distiller(palette = "Set1") +  
  labs(title = "Starbucks Locations") +  
  theme(plot.title = element_text(hjust = 0.5))
```

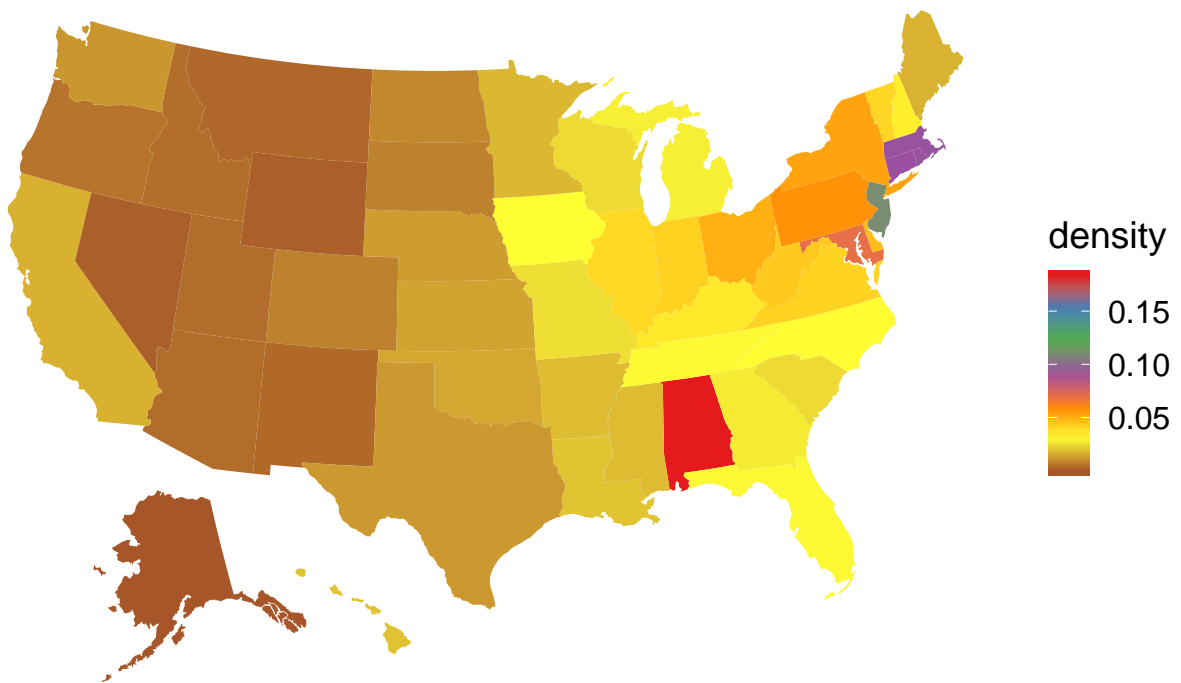
Starbucks Locations



Density without DC

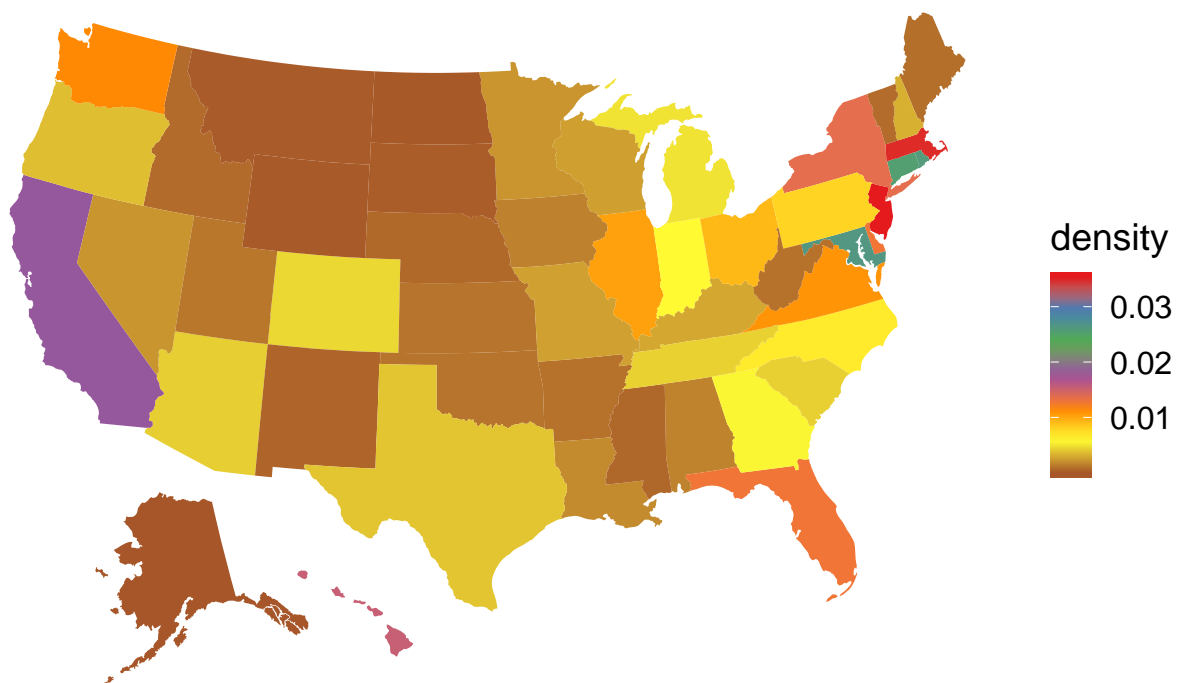
```
DNKN_loc %>%  
  ggplot(mapping = aes(x = x, y = y, group = group, fill = density)) +  
  geom_polygon() +  
  coord_equal() +  
  theme_map() +  
  scale_fill_distiller(palette = "Set1") +  
  labs(title = "Dunkin' Locations") +  
  theme(plot.title = element_text(hjust = 0.5))
```

Dunkin' Locations



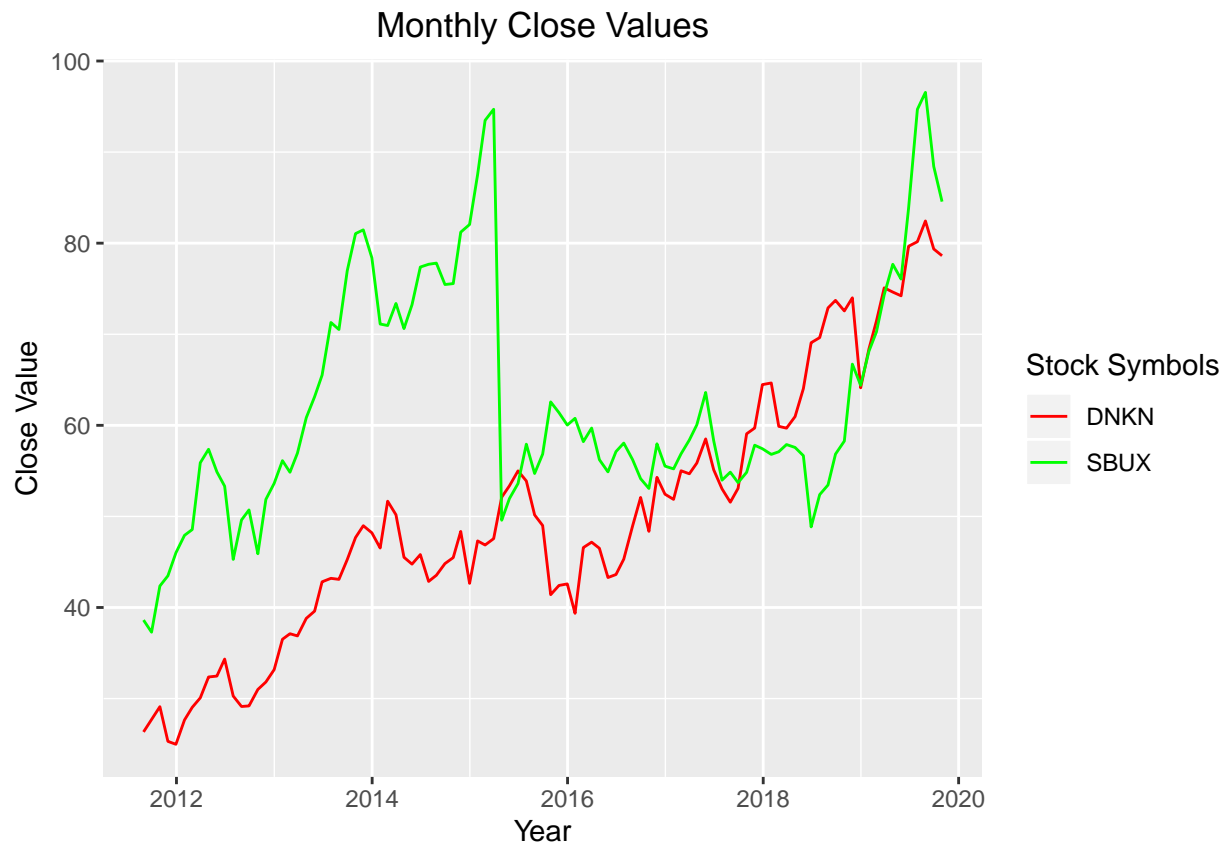
```
SBUX_loc %>%  
  ggplot(mapping = aes(x = x, y = y, group = group, fill = density)) +  
  geom_polygon() +  
  coord_equal() +  
  theme_map() +  
  scale_fill_distiller(palette = "Set1") +  
  labs(title = "Starbucks Locations") +  
  theme(plot.title = element_text(hjust = 0.5))
```

Starbucks Locations



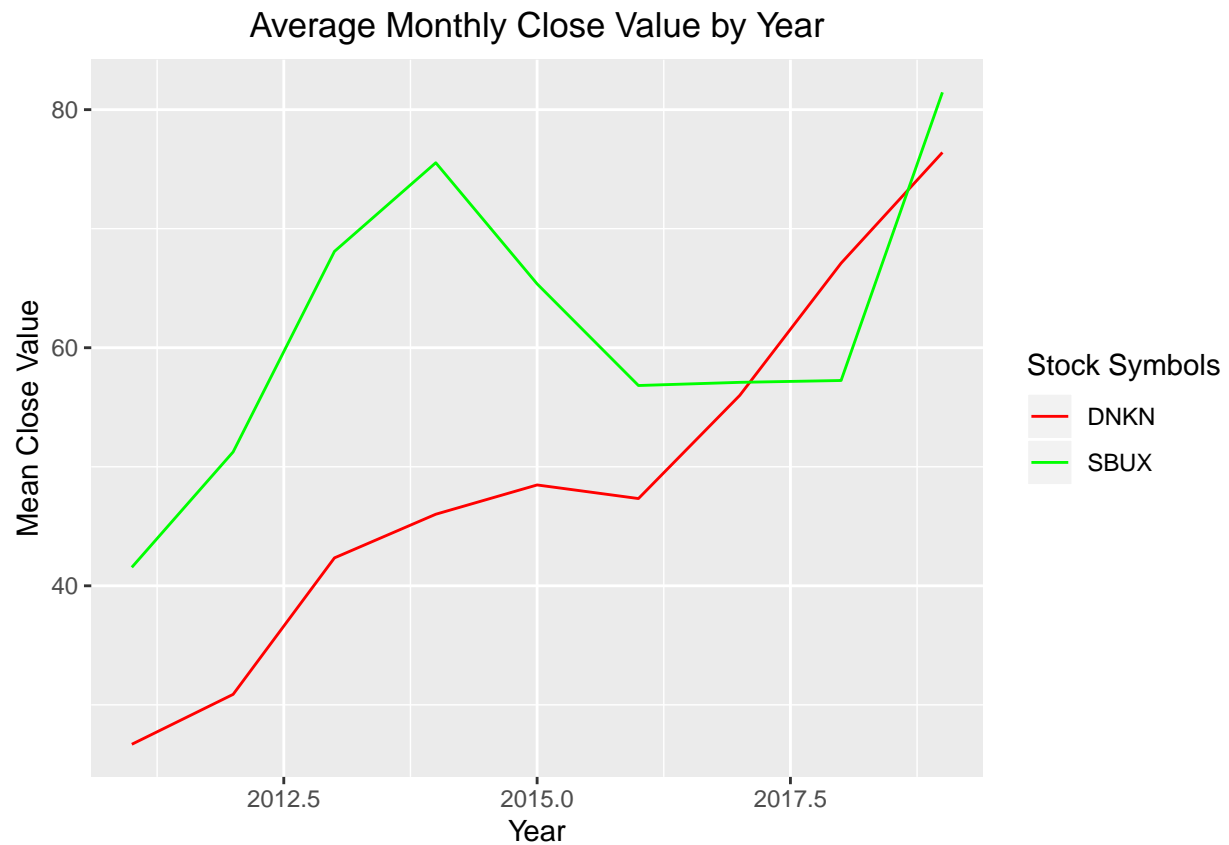
Monthly Stock Close

```
D_S %>%  
  group_by(stock) %>%  
  ggplot() +  
  geom_line(mapping = aes(x = timestamp, y = close, color = stock)) +  
  scale_color_manual(values = c("red", "green")) +  
  labs(title = "Monthly Close Values",  
       x = "Year",  
       y = "Close Value") +  
  guides(color = guide_legend(title = "Stock Symbols")) +  
  theme(plot.title = element_text(hjust = 0.5))
```

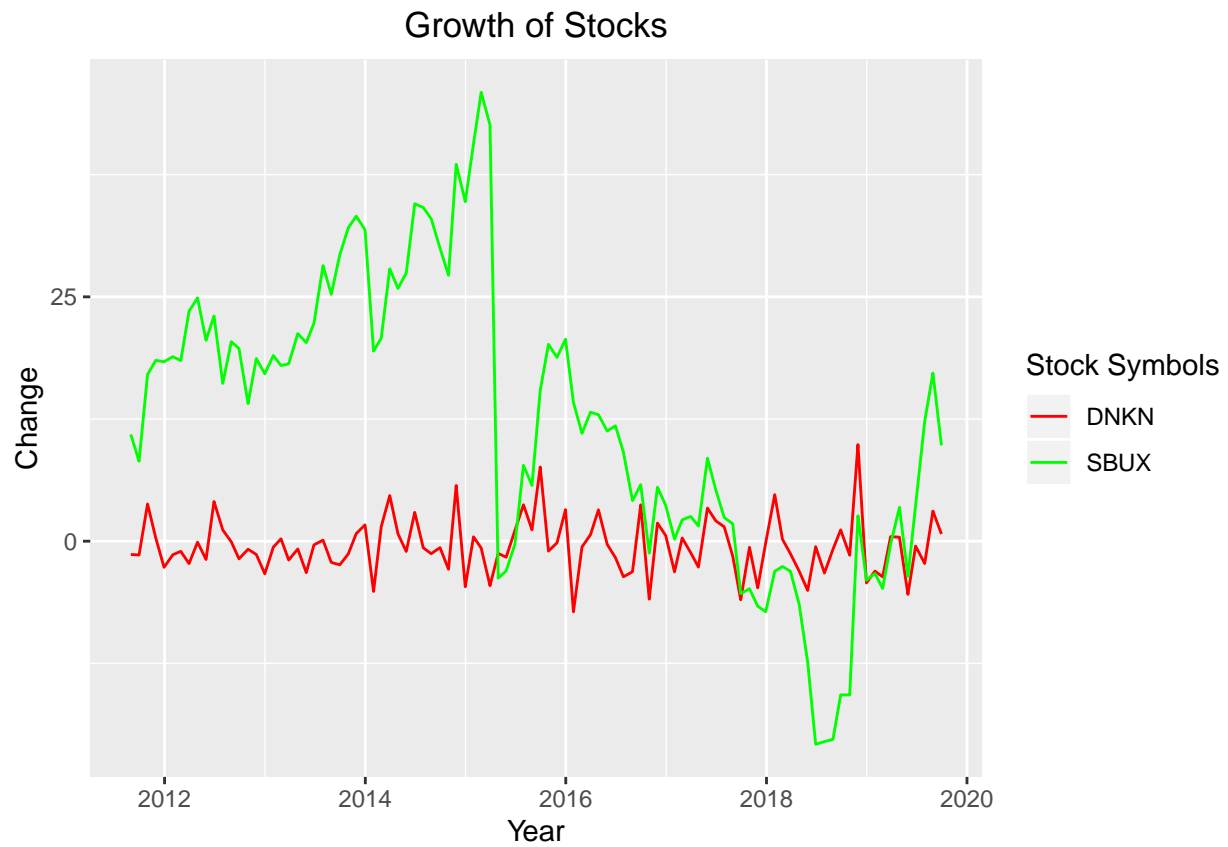
Yearly Mean Stock Close

```
yrly %>%
  group_by(stock) %>%
  ggplot() +
  geom_line(mapping = aes(x = year, y = mean_close, color = stock)) +
  scale_color_manual(values = c("red", "green")) +
  labs(title = "Average Monthly Close Value by Year",
       x = "Year",
       y = "Mean Close Value") +
  guides(color = guide_legend(title = "Stock Symbols")) +
  theme(plot.title = element_text(hjust = 0.5))
```

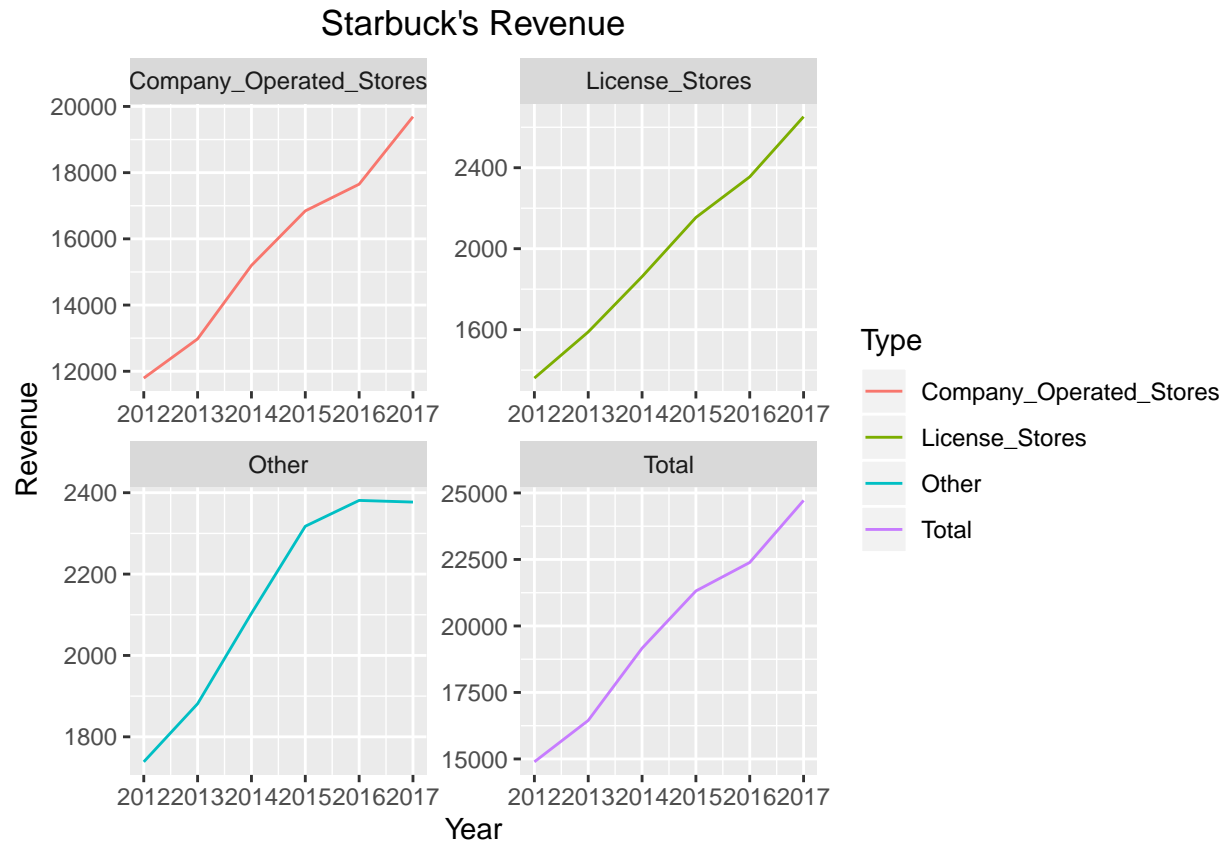


Growth Plots

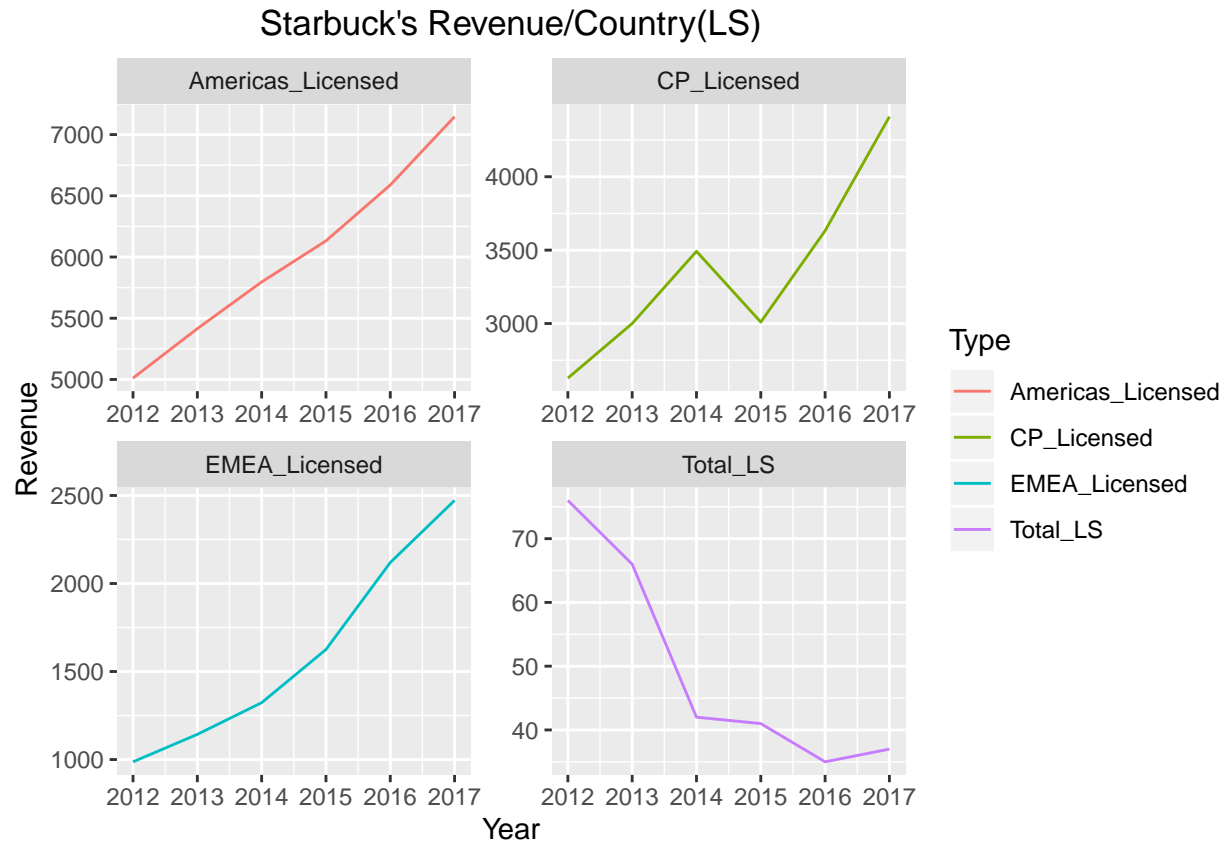
```
growth %>%
  group_by(stock) %>%
  ggplot() +
  geom_line(mapping = aes(x = timestamp, y = change, color = stock)) +
  scale_color_manual(values = c("red", "green")) +
  labs(title = "Growth of Stocks",
       x = "Year",
       y = "Change") +
  guides(color = guide_legend(title = "Stock Symbols")) +
  theme(plot.title = element_text(hjust = 0.5))
```



```
## Warning: Missing column names filled in: 'X11' [11], 'X12' [12], 'X13' [13],  
## 'X14' [14], 'X15' [15], 'X16' [16], 'X17' [17], 'X18' [18], 'X19' [19]
```



```
## Warning: Missing column names filled in: 'X11' [11], 'X12' [12], 'X13' [13],
## 'X14' [14], 'X15' [15], 'X16' [16], 'X17' [17], 'X18' [18], 'X19' [19]
```



```
## Warning: Missing column names filled in: 'X11' [11], 'X12' [12], 'X13' [13],
## 'X14' [14], 'X15' [15], 'X16' [16], 'X17' [17], 'X18' [18], 'X19' [19]
```

Starbuck's Reveue/Country(OS)

