# Assignment\_Week\_3&4\_Venkidusamy\_KesavAdithya

#### Kesav Adithya Venkidusamy

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## Data Loading

```
post\_df \leftarrow read\_excel("E:/Personal/Bellevue University/Course/github/dsc640/Week 3\&4/us-postage.xlsm") \\ head(post\_df)
```

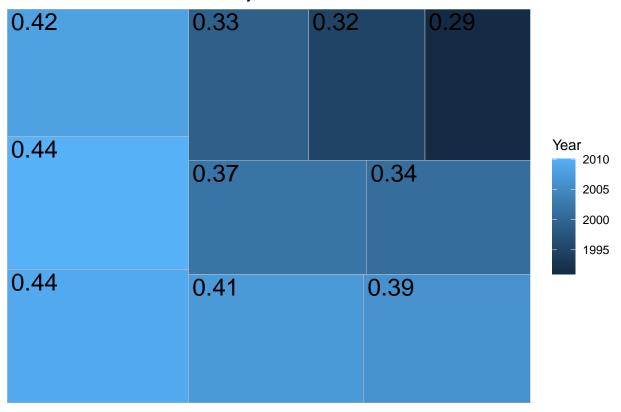
```
## # A tibble: 6 x 2
## Year Price
## <dbl> <dbl> ## 1 1991 0.29
## 2 1995 0.32
## 3 1999 0.33
## 4 2001 0.34
## 5 2002 0.37
## 6 2006 0.39
```

```
# Total number of records present in the data set
nrow(post_df)
```

#### ## [1] 10

```
## Create Tree Chart
ggplot(post_df, aes(area = Price, fill = Year, label = Price)) + geom_treemap() + geom_treemap_text() +
```

### R: Tree Chart for Postal Price by Year



 $\label{levue university/Course/github/dsc640/Week 3&4/world-population.xlhead(pop_df)} $$ pop_df \leftarrow read_excel("E:/Personal/Bellevue University/Course/github/dsc640/Week 3&4/world-population.xlhead(pop_df) $$ pop_df \leftarrow read_excel("E:/Personal/Bellevue University/Course/github/dsc640/Week 3&4/world-pop_df) $$ pop_df \leftarrow read_excel("E:/Personal/Belle$ 

```
## # A tibble: 6 x 2

## Complete the state of the state
```

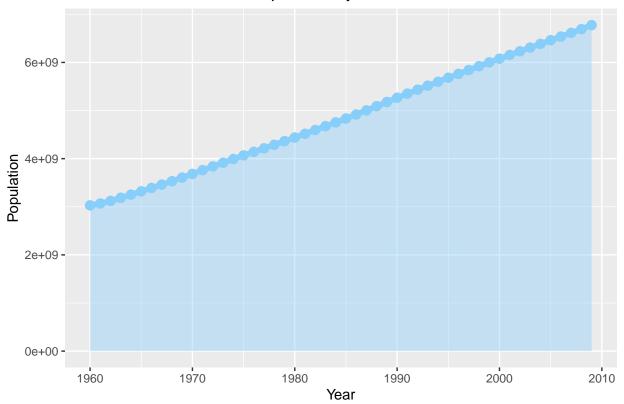
```
# Total number of records present in the data set
nrow(pop_df)
```

#### ## [1] 50

```
## Create Area Chart

ggplot(pop_df, aes(x=Year, y=Population)) +
  geom_area( fill="#87CEFA", alpha=0.4) +
  geom_line(color="#87CEFA", size=2) +
  geom_point(size=3, color="#87CEFA") +
  ggtitle("R: Area Chart for World Population by Year")
```

### R: Area Chart for World Population by Year



```
## Rows: 746 Columns: 4

## -- Column specification -----
## Delimiter: ","

## chr (2): Series id, Period

## dbl (2): Year, Value

##

## i Use 'spec()' to retrieve the full column specification for this data.

## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

#### head(unemp\_df)

```
## # A tibble: 6 x 4
##
     'Series id' Year Period Value
                 <dbl> <chr> <dbl>
## 1 LNS14000000 1948 M01
                                3.4
## 2 LNS14000000
                 1948 MO2
                                3.8
                                4
## 3 LNS14000000
                 1948 MO3
## 4 LNS1400000
                 1948 MO4
                                3.9
## 5 LNS14000000
                1948 M05
                                3.5
## 6 LNS14000000 1948 M06
                                3.6
```

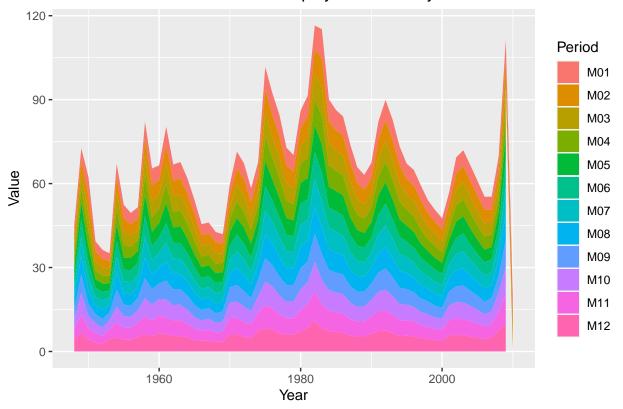
```
# Total number of records present in the data set
nrow(unemp_df)
```

#### ## [1] 746

```
## Create Stacked Area Chart

ggplot(unemp_df, aes(x=Year, y=Value, fill=Period)) +
    geom_area() + ggtitle("R: Stacked Area Chart for Unemployment Rate by Year for Various Periods")
```

### R: Stacked Area Chart for Unemployment Rate by Year for Various Periods



pop\_df <- read\_excel("E:/Personal/Bellevue University/Course/github/dsc640/Week 3&4/world-population.xl
head(pop\_df)</pre>

## [1] 50

## # A tibble: 6 x 2

```
## Create Step Chart
ggplot(pop_df, aes(x=Year, y=Population)) + geom_step() + ggtitle("R: Step Chart for World Population by
```

### R: Step Chart for World Population by Year

