exploratory_data_analysis.R

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```
setwd("/users/bcarancibia/CUNY_IS_661/data")

require(dplyr) #data manipulation
```

```
## Loading required package: dplyr
##
## Attaching package: 'dplyr'
##
## The following object is masked from 'package:stats':
##
##     filter
##
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
require(ggplot2) #plot the data
```

```
## Loading required package: ggplot2
```

```
require(scales)
```

```
## Loading required package: scales
```

```
require(grid)
```

```
## Loading required package: grid
```

```
require(RColorBrewer)
```

```
## Loading required package: RColorBrewer
```

```
fte_theme <- function() {

  # Generate the colors for the chart procedurally with RColorBrewer
  palette <- brewer.pal("Greys", n=9)
  color.background = palette[2]
  color.grid.major = palette[3]
  color.axis.text = palette[6]
  color.axis.title = palette[7]
  color.title = palette[9]

  # Begin construction of chart
```

```
  theme_bw(base_size=9) +

    # Set the entire chart region to a light gray color
    theme(panel.background=element_rect(fill=color.background, color=color.background)) +
    theme(plot.background=element_rect(fill=color.background, color=color.background)) +
    theme(panel.border=element_rect(color=color.background)) +

    # Format the grid
    theme(panel.grid.major=element_line(color=color.grid.major,size=.25)) +
    theme(panel.grid.minor=element_blank()) +
    theme(axis.ticks=element_blank()) +

    # Format the legend, but hide by default
    theme(legend.position="none") +
    theme(legend.background = element_rect(fill=color.background)) +
    theme(legend.text = element_text(size=7,color=color.axis.title)) +

    # Set title and axis labels, and format these and tick marks
    theme(plot.title=element_text(color=color.title, size=10, vjust=1.25)) +
    theme(axis.text.x=element_text(size=7,color=color.axis.text)) +
    theme(axis.text.y=element_text(size=7,color=color.axis.text)) +
    theme(axis.title.x=element_text(size=8,color=color.axis.title, vjust=0)) +
    theme(axis.title.y=element_text(size=8,color=color.axis.title, vjust=1.25)) +

    # Plot margins
    theme(plot.margin = unit(c(0.35, 0.2, 0.3, 0.35), "cm"))
}


chad <- read.csv("chad_amp.csv")
civ <- read.csv("civ_amp.csv")
haiti <- read.csv("haiti_amp.csv")
kosovo <- read.csv("kosovo_amp.csv")
madagascar <- read.csv("mada_amp.csv")
malawi <- read.csv("malawi.csv")
moldova <- read.csv("moldova.csv")
timor <- read.csv("timor.csv")
uganda <- read.csv("uganda_amp.csv")
honduras <- read.csv("honduras.csv")

length (chad)
```

```
## [1] 82
```

```
length(civ)
```

```
## [1] 88
```

```
length(haiti)
```

```
## [1] 41
```

```r
length(kosovo)
```

```
## [1] 14
```

```r
length(madagascar)
```

```
## [1] 42
```

```r
length(malawi)
```

```
## [1] 35
```

```r
length(moldova)
```

```
## [1] 17
```

```r
length(timor)
```

```
## [1] 82
```

```r
length(uganda)
```

```
## [1] 131
```

```r
length(honduras)
```

```
## [1] 111
```