STATS 205: Final Project Write-Up

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1. Background of the data and why it is interesting or important

The data we are using is the data from WHO suicide statistics from Kaggle. This gives population-based statistics on suicide rate...

2. Explanation of the method studied and its properties

3. Data analysis or simulation study

We will use the crude rate of suicide per 100,000 people.

[1] 41520

This analysis provides information on age-standardized rates...

```
who suicide statistics df <- read.csv("who suicide statistics.csv")
nrow(who_suicide_statistics_df)
## [1] 43776
colnames(who_suicide_statistics_df)
## [1] "country"
                    "year"
                                 "sex"
                                               "age"
                                                            "suicides_no"
## [6] "population"
    Filter and save countries with missing suicide rate.
library(tidyverse)
## Registered S3 methods overwritten by 'ggplot2':
##
    method
                  from
##
    [.quosures
                  rlang
    c.quosures
                  rlang
    print.quosures rlang
## -- Attaching packages ------ tidyverse 1.2.1 --
## v ggplot2 3.1.1
                     v purrr
                               0.3.2
## v tibble 2.1.1
                     v dplyr
                               0.8.1
## v tidyr
          0.8.3
                   v stringr 1.4.0
## v readr
                     v forcats 0.4.0
## -- Conflicts ------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
filtered_suicide_df <- drop_na(who_suicide_statistics_df, "suicides_no")
nrow(filtered_suicide_df)
```

```
write.csv(filtered_suicide_df, 'filtered_suicide.csv')
```

After filtering countries with missing suicide rate, take a random sample of 100 countries and make sure each continent has approximately equal countries.

```
\frac{100 \text{ countries}}{7 \text{ continents}} \approx 14 \text{ to } 15 \text{ countries per continent}
```

Filter countries by continent:

Warning in countrycode(sourcevar = df[, "country"], origin = "country.name", : Some values were not

4. Interpretation of the results or discussion

Get seven dataframes, filtered by list of countries for each continent.