# MasteringSoftwareDevelopmentCapstone

Vignette Author

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This package contains functions to clean and visualise earthquake data.

## **Load Library**

```
library(readr)
library(dplyr)
library(stringr)
library(lubridate)
library(ggplot2)
library(leaflet)
```

### **Import Dataset**

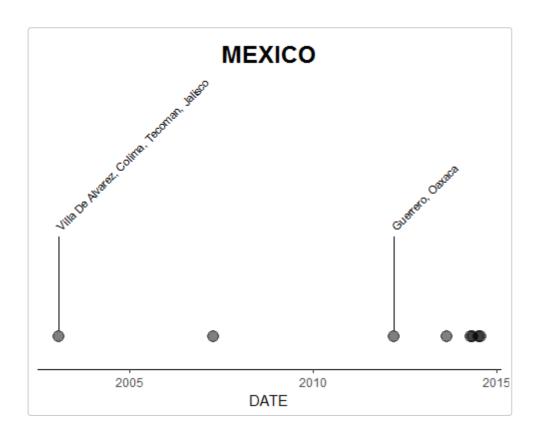
The raw dataset is obtained from National Geophysical Data Center / World Data Service (NGDC/WDS): Significant Earthquake Database. National Geophysical Data Center, NOAA. Click here doi:10.7289/V5TD9V7K

For convenience, the data has been preloaded into ./inst/extdata/dataset.txt.

#### Clean Data

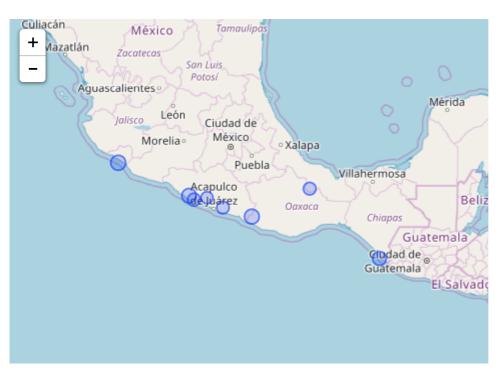
This create a cleaned data for earthquakes since 01 Jan 1900, excluding data points with missing magnitude or intensity.

#### **Create Timeline Plot**



# **Create Map Plot**

```
cleaned_data %>%
  filter(COUNTRY == "MEXICO" & year(DATE) >= 2000) %>%
  mutate(popup_text = eq_create_label(.)) %>%
  eq_map(annot_col = "popup_text")
```



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