

Crime Incidence in DC

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7/5/2021

Description

This data set has 12,000 rows. Is a data set of crime incidents in Washington, D.C., from January to June 2021. The data includes each report's ID (CNN), the latitude and longitude of the case, the type of the case, the method of the crime, the time of the crime, the neighborhood where the crime was committed, and other case information.

Variables

X: Longitude in the place where the crime took place

Y: Latitude in the place where the crime took place

CNN:Report's ID

Report_Date: The date and time of reporting the case

Shift: It happened during the day, in the evening or at midnight

Method: Others / Gun

Offense: Case type

Block: Block address

Ward / Anc: Ward Information

District / PSA: District Information

Neighbourhood_Cluster: Cluster number

Block_Group: Block group

Voting_Precinct: The voting district where the case took place

Latitude: Latitude in the place where the crime took place

Longitude: Longitude in the place where the crime took place

Start_Date: The time when the crime began

End_Date: The time when a crime is over

Object_ID: Case's ID

Code to Import

- Setting working directory: Consistent with the path of the data file.
- Library tidyverse package.

- read_csv (Read comma separated values)
- read_tsv (Read tab separated values)
- read_csv2 (Common in some European countries. Uses ; for the field separator and , for the decimal point.)
- head (dt_name,rows_number): show several rows of dataframe

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.0 --
```

```
## v ggplot2 3.3.2      v purrr   0.3.4
## v tibble  3.0.5      v dplyr   1.0.3
## v tidyr   1.1.2      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.5.0
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
```

```
## x dplyr::lag()     masks stats::lag()
```

```
crime <- read_csv("Crime_Incidents_in_2021.csv")
```

```
## Parsed with column specification:
```

```
## cols(
```

```
##   .default = col_character(),
```

```
##   X = col_double(),
```

```
##   Y = col_double(),
```

```
##   CCN = col_double(),
```

```
##   XBLOCK = col_double(),
```

```
##   YBLOCK = col_double(),
```

```
##   WARD = col_double(),
```

```
##   DISTRICT = col_double(),
```

```
##   PSA = col_double(),
```

```
##   CENSUS_TRACT = col_double(),
```

```
##   LATITUDE = col_double(),
```

```
##   LONGITUDE = col_double(),
```

```
##   OBJECTID = col_double()
```

```
## )
```

```
## See spec(...) for full column specifications.
```

```
head(crime,10)
```

```
## # A tibble: 10 x 24
```

```
##       X      Y    CCN REPORT_DAT SHIFT METHOD OFFENSE BLOCK XBLOCK YBLOCK  WARD
##   <dbl> <dbl> <dbl> <chr>      <chr> <chr> <chr>   <chr>  <dbl>  <dbl> <dbl>
```

```
## 1 -77.0  38.9 2.10e7 2021/02/2~ DAY   OTHERS THEFT/~ 2800~ 402965 132500    7
```

```
## 2 -77.0  38.9 2.11e7 2021/06/0~ EVEN~ OTHERS ROBBERY 1000~ 396559 137255    2
```

```
## 3 -77.1  38.9 2.11e7 2021/06/0~ EVEN~ OTHERS THEFT/~ 2200~ 393839 139090    3
```

```
## 4 -77.0  38.9 2.11e7 2021/06/0~ EVEN~ OTHERS THEFT/~ 2700~ 402981 139659    5
```

```
## 5 -77.0  39.0 2.11e7 2021/06/0~ EVEN~ OTHERS MOTOR ~ 5500~ 398993 143246    4
```

```
## 6 -77.0  38.9 2.11e7 2021/06/0~ EVEN~ OTHERS SEX AB~ 1300~ 397329 137320    2
```

```
## 7 -77.0  38.9 2.11e7 2021/06/0~ EVEN~ OTHERS MOTOR ~ 1 - ~ 399351 137319    6
```

```
## 8 -77.0  38.8 2.11e7 2021/06/0~ EVEN~ OTHERS THEFT/~ 3700~ 399755 129917    8
```

```
## 9 -77.0  38.9 2.11e7 2021/06/0~ EVEN~ OTHERS THEFT/~ 700 ~ 398057 141325    4
```

```
## 10 -77.0 38.9 2.11e7 2021/06/0~ EVEN~ OTHERS MOTOR ~ 1 - ~ 399058 137708    5
```

```
## # ... with 13 more variables: ANC <chr>, DISTRICT <dbl>, PSA <dbl>,
```

```
## #   NEIGHBORHOOD_CLUSTER <chr>, BLOCK_GROUP <chr>, CENSUS_TRACT <dbl>,  
## #   VOTING_PRECINCT <chr>, LATITUDE <dbl>, LONGITUDE <dbl>, BID <chr>,  
## #   START_DATE <chr>, END_DATE <chr>, OBJECTID <dbl>
```

Reference Link

https://opendata.dc.gov/datasets/619c5bd17ca2411db0689bb0a211783c_3/explore?location=38.889720%2C-76.981653%2C11.95