

Firestation Prep

Cleaning

Load Packages

```
library(sf)
library(dplyr)
```

Load data

```
load("firestations.RData")
```

Rename & Delete Columns

```
fireloc <- firestations[,c(1:3,5:7)]
names(fireloc) <- c("FDID", "name", "address", "city", "state", "zip")
```

Standardize Zips

```
df <- mutate(fireloc, zip=as.character(zip))
firelocations <- mutate(df, zip=apply(strsplit(df$zip, split='-', fixed=TRUE), function(x) (x[1])))
```

Add location column

```
firelocations <- firelocations %>%
  mutate(location = paste0(address, " ", city, " ", state, " ", zip))
```

Add Geometry

Read in shapefile of Zipcodes from OpenDataSoft

```
load("USZipGeo.RData")
zipcodes <- USZipGeo[,c(1,4,5,8)]
```

Add geometry to Firestation Dataset

```
FS <- merge(firelocations, zipcodes, by='zip')
Firestat <- st_as_sf(FS)
```

Create Cleaned Files

```
save(Firestat, file = "Firestat.rda")
```