

Analyzing Opioid Overdoses in the United States

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Part 1 – analyzing data

```
library(readxl)
data <- read_excel("690_data8.xlsx")
attach(data)
```

obtain the dimension and inspect the structure

```
is.data.frame(data)
```

```
## [1] TRUE
```

```
str(data)
```

```
## tibble [663 × 24] (S3: tbl_df/tbl/data.frame)
## $ state           : chr [1:663] "Alabama" "Alabama" "Alabama" "Alabama" ...
## $ stateid         : num [1:663] 1 1 1 1 1 1 1 1 1 1 ...
## $ year            : num [1:663] 2006 2007 2008 2009 2010 ...
## $ t               : num [1:663] 6 7 8 9 10 11 12 13 14 15 ...
## $ cpi             : num [1:663] 198 202 211 211 217 ...
## $ mcare_millions  : num [1:663] 6732 7135 7659 8039 8299 ...
## $ medicaid_spend_actual : num [1:663] 3.89e+09 4.31e+09 4.08e+09 4.42e+09 4.87e+09 ...
## $ overdoses       : num [1:663] 124 165 185 206 187 176 165 166 270 282 ...
## $ population      : num [1:663] 4628981 4672840 4718206 4757938 4785437 ...
## $ hhincome        : num [1:663] 47624 47654 47244 46905 51999 ...
## $ state_gdp       : num [1:663] 184796 185869 185298 178021 182263 ...
```