

# Week 3 homework

```
#Loading packages
library('ggplot2')
library('GGally')
library('stargazer')

#Loading data

#temperature data file
tempData <- read.table("https://d37djvu3ytnwxt.cloudfront.net/assets/courseware/v1/592f3be3e90d2bdfe6a6")

#Crime data file
crimeData <- read.table("http://www.statsci.org/data/general/uscrime.txt", header = TRUE)

#Set seed for reproducibility
set.seed(156)

# stargazer(tempData)
# stargazer(crimeData)
```

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## Summary of Datasets for Week 3 Homework

Table 1: Summary of Temperature Data

| Statistic | N  | Mean      | St. Dev. | Min    | Max     |
|-----------|----|-----------|----------|--------|---------|
| M         | 47 | 13.857    | 1.257    | 11.900 | 17.700  |
| So        | 47 | 0.340     | 0.479    | 0      | 1       |
| Ed        | 47 | 10.564    | 1.119    | 8.700  | 12.200  |
| Po1       | 47 | 8.500     | 2.972    | 4.500  | 16.600  |
| Po2       | 47 | 8.023     | 2.796    | 4.100  | 15.700  |
| LF        | 47 | 0.561     | 0.040    | 0.480  | 0.641   |
| M.F       | 47 | 98.302    | 2.947    | 93.400 | 107.100 |
| Pop       | 47 | 36.617    | 38.071   | 3      | 168     |
| NW        | 47 | 10.113    | 10.283   | 0.200  | 42.300  |
| U1        | 47 | 0.095     | 0.018    | 0.070  | 0.142   |
| U2        | 47 | 3.398     | 0.845    | 2.000  | 5.800   |
| Wealth    | 47 | 5,253.830 | 964.909  | 2,880  | 6,890   |
| Ineq      | 47 | 19.400    | 3.990    | 12.600 | 27.600  |
| Prob      | 47 | 0.047     | 0.023    | 0.007  | 0.120   |
| Time      | 47 | 26.598    | 7.087    | 12.200 | 44.000  |
| Crime     | 47 | 905.085   | 386.763  | 342    | 1,993   |

Table 2: Summary of Crime Data

| Statistic | N   | Mean   | St. Dev. | Min | Max |
|-----------|-----|--------|----------|-----|-----|
| X1996     | 123 | 83.715 | 8.548    | 60  | 99  |
| X1997     | 123 | 81.675 | 9.319    | 55  | 95  |
| X1998     | 123 | 84.260 | 6.409    | 63  | 95  |
| X1999     | 123 | 83.358 | 9.723    | 57  | 99  |
| X2000     | 123 | 84.033 | 9.519    | 55  | 101 |
| X2001     | 123 | 81.553 | 8.225    | 51  | 93  |
| X2002     | 123 | 83.585 | 9.426    | 57  | 97  |
| X2003     | 123 | 81.480 | 7.018    | 57  | 91  |
| X2004     | 123 | 81.764 | 6.663    | 62  | 95  |
| X2005     | 123 | 83.358 | 7.733    | 54  | 94  |
| X2006     | 123 | 83.049 | 9.794    | 53  | 98  |
| X2007     | 123 | 85.398 | 9.033    | 59  | 104 |
| X2008     | 123 | 82.512 | 8.733    | 50  | 95  |
| X2009     | 123 | 80.992 | 9.013    | 51  | 95  |
| X2010     | 123 | 87.211 | 7.445    | 67  | 97  |
| X2011     | 123 | 85.276 | 9.931    | 59  | 99  |
| X2012     | 123 | 84.650 | 9.252    | 56  | 105 |
| X2013     | 123 | 81.667 | 7.727    | 56  | 92  |
| X2014     | 123 | 83.943 | 6.591    | 63  | 95  |
| X2015     | 123 | 83.301 | 8.709    | 56  | 97  |