IS606 Final Project

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Part 1 - Introduction:

How have the values of people from the United States changed over time with regard to science and technology and its positive/negative impact on the world? The World Values Survey includes a question where in the survey respondent is asked to characterize their view of science and state of the world because of it (World Values Survey Association, 2014). Using the World Values Survey longitudinal data from 2006 and 2011, this study investigates changes in the views of United States respondents associated with science as well as correlations with educational level and/or the importance of religion.

Part 2 - Data:

The data was collected and made available by the World Values Survey Association. (World Values Survey Association, 2014).

The link to the data page is: http://www.worldvaluessurvey.org/WVSDocumentationWVL.jsp

Although the World Values Survey was conducted in the United States starting in 1995, the question regarding science and the world (005_203) was not introducted until 2006. As such, only the cases from 2006 and beyond, 3481 across 2006 and 2011, are considered in this study.

```
#
# Original WVS Data File, Size 1.4GB
#
#dataFile <- "C:/Users/Dan/Downloads/WorldValuesSurvey/WVS_Longitudinal_1981-2014_rdata_v_2015_04_18/WV
#load(dataFile)
#colsToKeep <- c("E234", "S020",  "S024", "S003", "X003", "X025", "A006")
#WVS_Subset <- WVS_Longitudinal_1981_2014_R_v2015_04_18[,colsToKeep]
#save(WVS_Subset, file="C:/Code/R/IS606-ProbStats/FinalProject/data/WVS_subData.RData")
```

```
# load data
dataFile <- "C:/Code/R/IS606-ProbStats/FinalProject/data/WVS_subData.RData"
load(dataFile)
colnames(WVS_Subset) <- c("KeyQuestion",
                          "Year",
                          "CountryWave",
                          "Country",
                          "Age",
                          "HighestEducation",
                          "ReligionImportant")
# Subset to just United States
WVS_US <- WVS_Subset[WVS_Subset$Country == 840, ]
WVS_US$CountryName <- "United States"

summary(WVS_US)
```

```
##   KeyQuestion          Year       CountryWave      Country
##  Min.   :-5.000   Min.   :1995   Min.   :8403   Min.   :840
```

```
##  1st Qu.:-4.000   1st Qu.:1999   1st Qu.:8404   1st Qu.:840
##  Median : 5.000   Median :2006   Median :8405   Median :840
##  Mean   : 2.236   Mean   :2004   Mean   :8405   Mean   :840
##  3rd Qu.: 8.000   3rd Qu.:2011   3rd Qu.:8406   3rd Qu.:840
##  Max.   :10.000   Max.   :2011   Max.   :8406   Max.   :840
##       Age        HighestEducation ReligionImportant CountryName
##  Min.   :-1.00   Min.   :-3.000   Min.   :-2.0      Length:6223
##  1st Qu.:33.00   1st Qu.: 4.000   1st Qu.: 1.0      Class :character
##  Median :46.00   Median : 6.000   Median : 1.0      Mode  :character
##  Mean   :47.15   Mean   : 5.771   Mean   : 1.8
##  3rd Qu.:61.00   3rd Qu.: 8.000   3rd Qu.: 2.0
##  Max.   :94.00   Max.   : 8.000   Max.   : 4.0
```

Part 3 - Exploratory data analysis:

Part 4 - Inference:

Part 5 - Conclusion:

References:

World Values Survey Association. WORLD VALUES SURVEY 1981-2014 LONGITUDINAL AGGREGATE v.20150418. Aggregate File Producer: JDSystems. Madrid SPAIN, 2014. URL: http://www.worldvaluessurvey.org/WVSDocumentationWVL.jsp.

Appendix (optional):

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