Exam3

Holt

7/9/2020

## Questions

1. Clear Environment

rm(list=ls(all = TRUE))

1A/B. Load Data

v10 <- get\_acs(geography = "state",   
 variables = c(poverty = c("B06012\_002",  
 year = 2010)))

## Getting data from the 2014-2018 5-year ACS

## Fetching data by table type ("B/C", "S", "DP") and combining the result.

v15 <- get\_acs(geography = "state",   
 variables = c(poverty = c("B06012\_002",  
 year = 2015)))

## Getting data from the 2014-2018 5-year ACS  
## Fetching data by table type ("B/C", "S", "DP") and combining the result.

inequality\_panel <- left\_join(v10, v15, by = "NAME")

1C.

setnames(inequality\_panel,"estimate.x", 'gini')  
setnames(inequality\_panel, "estimate.y", "gini")

1D.

setnames(inequality\_panel, "NAME", "state")

1E.

inequality\_panel$variable.x <- 2010  
inequality\_panel$variable.y <- 2015  
setnames(inequality\_panel, "variable.x", "2010", skip\_absent = TRUE)  
setnames(inequality\_panel, "variable.y", "2015")

1F.

head(inequality\_panel)

## # A tibble: 6 x 9  
## GEOID.x state `2010` gini moe.x GEOID.y `2015` gini moe.y  
## <chr> <chr> <dbl> <dbl> <dbl> <chr> <dbl> <dbl> <dbl>  
## 1 01 Alabama 2010 829400 11916 01 2015 829400 11916  
## 2 02 Alaska 2010 77865 2706 02 2015 77865 2706  
## 3 04 Arizona 2010 1092192 12863 04 2015 1092192 12863  
## 4 05 Arkansas 2010 510337 9133 05 2015 510337 9133  
## 5 06 California 2010 5487141 38424 06 2015 5487141 38424  
## 6 08 Colorado 2010 590504 10526 08 2015 590504 10526

gdp\_current <- WDI(country = 'all',   
 indicator = 'NY.GDP.DEFL.ZS',  
 start = 2006,  
 end = 2007,  
 extra = FALSE,  
 cache = NULL)

1. 2015 is the standard for deflation (=100)

usd.deflator <-   
 WDI(country = 'USA',   
 indicator = 'NY.GDP.DEFL.ZS',  
 start = 2015,  
 end = 2015,  
 extra = FALSE,  
 cache = NULL)

1. UI, input & output; Server, functions; executable ShinyApp

armeniatext <- as.data.frame(armeniatext, stringAsFactors = FALSE)  
colnames(armeniatext)[which(names(armeniatext) == "armeniatext")] <- "text"

armeniatext <- armeniatext %>%   
 unnest\_tokens(word, text) %>%  
 anti\_join(stop\_words)

## Joining, by = "word"

freq <- armeniatext %>%   
 count(word, sort = TRUE)  
  
head(freq, num = 5)

## word n  
## 1 armenia 252  
## 2 political 207  
## 3 corruption 186  
## 4 governance 185  
## 5 democracy 132  
## 6 evidence 126

hot100exam <- "https://www.billboard.com/charts/hot-100"  
hot100exam <- read\_html(hot100exam)

body\_nodes <- hot100exam %>%   
 html\_node("body") %>%   
 html\_children

body\_nodes <- hot100exam %>%   
 html\_node("body") %>%   
 html\_children  
  
# get data   
rank <- hot100exam %>%   
 rvest::html\_nodes('body') %>%   
 xml2::xml\_find\_all("//span[contains(@class,  
 'chart-element\_\_rank\_\_number')]") %>%   
 rvest::html\_text()  
  
title <- hot100exam %>%   
 rvest::html\_nodes('body') %>%   
 xml2::xml\_find\_all("//span[contains(@class,  
 'chart-element\_\_information\_\_song')]") %>%  
 rvest::html\_text()  
  
artist <- hot100exam %>%   
 rvest::html\_nodes('body') %>%   
 xml2::xml\_find\_all("//span[contains(@class,  
 'chart-element\_\_information\_\_artist')]") %>%  
 rvest::html\_text()  
  
last\_week <- hot100exam %>%   
 rvest::html\_nodes('body') %>%   
 xml2::xml\_find\_all("//span[contains(@class,  
 'chart-element\_\_meta text--center color--secondary text--last')]") %>%  
 rvest::html\_text()   
  
# put it all together  
hot100exam\_df <- data.frame(rank,last\_week,artist,title)