Exam 3

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knitr::opts\_chunk$set(echo = TRUE)  
knitr::opts\_chunk$set(error = TRUE)

# 1. Clear the environment

rm(list=ls(all=TRUE))

# 2. Find and import inequality\_gini variable

# load tidycensus and tidyverse  
library(tidycensus)

## Warning: package 'tidycensus' was built under R version 4.0.2

library(tidyverse)

## -- Attaching packages ----------------------------------------------------------------------------------- tidyverse 1.3.0 --

## v ggplot2 3.3.1 v purrr 0.3.4  
## v tibble 3.0.1 v dplyr 1.0.0  
## v tidyr 1.1.0 v stringr 1.4.0  
## v readr 1.3.1 v forcats 0.5.0

## -- Conflicts -------------------------------------------------------------------------------------- tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

census\_api\_key("c58d5ca6d3b34101ed3642a20ef24a2550335faa",  
 install = FALSE,  
 overwrite = TRUE)

## To install your API key for use in future sessions, run this function with `install = TRUE`.

# load variable from 2010  
v10 <- load\_variables(year = 2010, "acs5")   
  
# load variable from 2015  
v15 <- load\_variables(year = 2015,  
"acs5")   
  
# see head() of inequality\_panel  
head(inequality\_panel)

## Error in head(inequality\_panel): object 'inequality\_panel' not found

# 5. Demonstrate that inequality\_panel and inequality\_long have the same number of observations

summary(inequality\_panel)

## Error in summary(inequality\_panel): object 'inequality\_panel' not found

summary(inequality\_long)

## Error in summary(inequality\_long): object 'inequality\_long' not found

# 8. Import data on GDP in USD from 2006 - 2007 using WDI package

library(WDI)  
gdp\_current = WDI(country = "all",  
 indicator =c("NY.GDP.MKTP.CD"),# indicator from web  
 start = 2006, end = 2007, extra = FALSE, cache = NULL)

# 10. Shiny app info

The main components of a Shiny App are the UI, server, and shinyApp itself. The UI is composed of inputs, or what the user inputs into the interface, and outputs, or what the server returns to the user depending on the input. The server is also composed of inputs and outputs, and it tells R how to output everything specified in the UI. The shinyApp is composed of the UI and server working together, and is executed through shinyApp(ui = ui,server = server)

# 11. Pull PDF from webpage

#First be sure libraries all loaded  
  
library(pdftools)

## Warning: package 'pdftools' was built under R version 4.0.2

## Using poppler version 0.73.0

library(tidyr)  
library(tidytext)

## Warning: package 'tidytext' was built under R version 4.0.2

library(dplyr)  
library(stringr)  
library(ggplot2)  
  
# import pdf from webpage  
armeniatext = pdf\_text(pdf = "https://pdf.usaid.gov/pdf\_docs/PA00TNMG.pdf")

# 12. Convert armeniatext into a data frame

# convert character vector to data frame  
armeniatext = as.data.frame(armeniatext, stringsAsFactors = FALSE)

# Link to GitHub Repo: Exam3

<https://github.com/gmappes/exam3>