Exam3AVA

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7/8/2021

1. #workspace cleared via following code rm(list = ls())

2. #download wdi package #save data frame as female_lfp

install.packages('WDI') wbsearch("female*labor force participation" cache , new_wb_cache) WDI(country = "all", indicator = "LFP.FEM", start = 2010, end = 2015, extra = FALSE, cache = NULL, latest = NULL, language = "en")

3. #rename variable to flfp

setnames(sa_nr_collapsed, "wbsearch", "flfp")

4.

#collapsing data frame collapsed_flfp = female_flfp %>% group_by(country, resource, female, labor force participation, continent, female_flfp%>%summarize(female_labor force participation =mean(female_labor force participation, na.rm=TRUE))%>%dplyr::select(-c(lat_long))

5. unable to do

6.

#formulated world map and attempted to save as an image on the report world <- ne_countries(scale = "large", returnclass = "sf") world_basic = ggplot() + geom_flfp(data = world) + geom_flfp(data = final) print(world_basic) ggsave(world_basic, filename = "world_map.png", width = 6.5, height = 6)

collapsed_flfp

7.

The part of the world showing the highest proportion of females participating in the labor force is in the Eastern-Southeastern region of Africa. The top countries are almost all situated in this area of the world.

8. #making map of Africa

africa <-ne_countries(continent ='africa',scale = "large",returnclass = "sf") africa_data = subset(final, continent=="africa")

africa_map = ggplot() + geom_sf(data = africa) + geom_sf(data = africa_data, aes(shape=Resource)) print(africa_map)

#saving output map ggsave(africa_map, filename = "africa_map.png", width = 6.5, height = 6)

9.

User interface- how the app works. Also involves inputs and outputs.

Server- defines how to assmpl components of the app

Shinyapp- the overall product of user interface and server to produce results.

10.

library(pdftools) library(tidyr) library(tidytext) library(dplyr) library(stringr) library(ggplot2)

#dowloading pdf from online

mytext=pdf_text(pdf = "https://pdf.usaid.gov/pdf_docs/PA00TNMJ.pdf")

mytext

11.

mytext=as.data.frame(mytext) mytext$page=c(1:27) colnames(mytext)[which(names(mytext) == "mytext")] <- "armeniatext"

12. #tokenizing mytext=mytext %>% unnest_tokens(word,text)

#ridding stop words
data(stop_words)

mytext <- mytext %>% anti.join(stop_words)

13.

#word frequencies / most frequently used words data(stop_words)

mytext <- mytext %>% count(word, sort = TRUE) head(hpfreq)

14.

hot100page <- "https://www.billboard.com/charts/hot-100" hot 100 <- read.html(hot100page)

str

15.

#loadrvest library(rvest) library(dplyr)

16.

body_nodes <- hot 100 html_node("body") body_nodes

17. saved data. was not able to establish a .sta file. submitting what I have as I won't have wifi soon.