Exam3

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Exam 3

```
#clear environment
rm(list=ls(all=TRUE))
#Use thetidycensuspackage to (a) find the inequality Gini index variable explained on the last exam,
library(tidycensus)
```

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

```
#census api key
census_api_key("c37c9dc748882cdb481c65c5842bacde81469af4")
```

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

```
#find inequality gini index variable
v10 <- load_variables(year = 2010, "acs5")
v15 <- load_variables(year = 2015, "acs5")
#import in the state-level inequality Gini estimates for 2010 and 2015 in the five-year American Commun
#for state level
gini_2010 <- get_acs(geography = "state",
                variables =c(inequality_gini =c("B19083_001")),
                year = 2010)
```

```
## Getting data from the 2006-2010 5-year ACS
```

```
gini_2010$year <- 2010
names(gini_2010)
```

```
## [1] "GEOID"    "NAME"    "variable" "estimate" "moe"      "year"
```

```
gini_2015 <- get_acs(geography = "state",
                variables =c(inequality_gini =c("B19083_001")),
                year = 2015)
```

```
## Getting data from the 2011-2015 5-year ACS
```

```
gini_2015$year <- 2015
names(gini_2015)
```

```
## [1] "GEOID"    "NAME"     "variable" "estimate" "moe"      "year"
```

```
#combine into single dataset
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()
```

```
inequality_panel <- bind_rows(gini_2010, gini_2015)
#rename variable
library(data.table)
```

```
##
## Attaching package: 'data.table'
```

```
## The following objects are masked from 'package:dplyr':
##
##     between, first, last
```

```
## The following object is masked from 'package:purrr':
##
##     transpose
```

```
setnames(inequality_panel, "estimate", "gini")
setnames(inequality_panel, "NAME", "state")
#head command
head(inequality_panel)
```

```
## # A tibble: 6 x 6
##   GEOID state      variable          gini   moe  year
##   <chr> <chr>      <chr>            <dbl> <dbl> <dbl>
## 1 01    Alabama    inequality_gini 0.47  0.003  2010
## 2 02    Alaska     inequality_gini 0.412 0.006  2010
## 3 04    Arizona    inequality_gini 0.453 0.002  2010
## 4 05    Arkansas   inequality_gini 0.459 0.003  2010
## 5 06    California inequality_gini 0.469 0.001  2010
## 6 08    Colorado   inequality_gini 0.455 0.003  2010
```

```
#create wide dataframe
inequality_wide <- inequality_panel %>%
                pivot_wider(id_cols = c("state", "GEOID", "year"),
                    names_from = "year",
                    values_from = "gini",
                    names_prefix = "year_")
head(inequality_wide)
```

```
## # A tibble: 6 x 4
##   state      GEOID year_2010 year_2015
##   <chr>      <chr>     <dbl>     <dbl>
## 1 Alabama    01        0.47      0.475
## 2 Alaska     02        0.412     0.418
## 3 Arizona    04        0.453     0.465
## 4 Arkansas   05        0.459     0.470
## 5 California 06        0.469     0.486
## 6 Colorado   08        0.455     0.459
```

```
#Make long
inequality_long <-
        inequality_wide %>%
        pivot_longer(cols = starts_with("year"),
                    names_to = "year",
                    names_prefix = "year_",
                    values_to = "gini")
#show same number of observations
dim(inequality_panel)
```

```
## [1] 104   6
```

```
dim(inequality_long)
```

```
## [1] 104   4
```

```
#collapse data
inequality_collapsed <-
  inequality_long %>%
  group_by(state, GEOID) %>%
  summarize(gini = mean(gini, na.rm = TRUE))
```

```
## `summarise()` regrouping output by 'state' (override with `.groups` argument)
```

```
#load libraries for mapping
#load libraries
library(rio)
library(tidyverse)
library(googlesheets4)
```

```
## Warning: package 'googlesheets4' was built under R version 4.0.2
```

```r
library(labelled)
library(data.table)
library(varhandle)
library(ggrepel)
```

```
## Warning: package 'ggrepel' was built under R version 4.0.2
```

```r
library(geosphere)
```

```
## Warning: package 'geosphere' was built under R version 4.0.2
```

```r
library(rgeos)
```

```
## Warning: package 'rgeos' was built under R version 4.0.2
```

```
## Loading required package: sp
```

```
## Warning: package 'sp' was built under R version 4.0.2
```

```
## rgeos version: 0.5-3, (SVN revision 634)
##  GEOS runtime version: 3.8.0-CAPI-1.13.1
##  Linking to sp version: 1.4-2
##  Polygon checking: TRUE
```

```r
library(viridis)
```

```
## Loading required package: viridisLite
```

```r
library(mapview)
```

```
## Warning: package 'mapview' was built under R version 4.0.2
```

```r
library(rnaturalearth)
```

```
## Warning: package 'rnaturalearth' was built under R version 4.0.2
```

```r
library(rnaturalearthdata)
```

```
## Warning: package 'rnaturalearthdata' was built under R version 4.0.2
```

```r
library(devtools)
```

```
## Loading required package: usethis
```

```
library(rnaturalearthhires) # devtools::install_github("ropensci/rnaturalearthhires")
library(raster)
```

```
##
## Attaching package: 'raster'
```

```
## The following object is masked from 'package:data.table':
##
##      shift
```

```
## The following object is masked from 'package:dplyr':
##
##      select
```

```
## The following object is masked from 'package:tidyr':
##
##      extract
```

```
library(sp)
library(sf)
```

```
## Warning: package 'sf' was built under R version 4.0.2
```

```
## Linking to GEOS 3.8.0, GDAL 3.0.4, PROJ 6.3.1
```

```
library(ggsflabel) #devtools::install_github("yutannihilation/ggsflabel")
```

```
##
## Attaching package: 'ggsflabel'
```

```
## The following objects are masked from 'package:ggplot2':
##
##      geom_sf_label, geom_sf_text, StatSfCoordinates
```

```
library(Imap) #nice mapping/color functions
```

```
##
## Attaching package: 'Imap'
```

```
## The following object is masked from 'package:purrr':
##
##      imap
```

```
#load the world borders
state_borders <- st_read("C:/Users/Mary/Documents/GOV 355M/R/state_borders/cb_2018_us_state_500k.shp",
```

```
## Reading layer 'cb_2018_us_state_500k' from data source 'C:\Users\Mary\Documents\GOV 355M\R\state_bord
## Simple feature collection with 56 features and 9 fields
## geometry type:  MULTIPOLYGON
## dimension:      XY
## bbox:           xmin: -179.1489 ymin: -14.5487 xmax: 179.7785 ymax: 71.36516
## geographic CRS: NAD83
```

```r
#transform to WGS84 format
borders <- st_transform(state_borders, "+proj=longlat +ellps=WGS84 +datum=WGS84")
#produce map of united states
merged_data <- left_join(borders, inequality_collapsed, by = c("GEOID"))
#create map
america_map <- ggplot() + geom_sf(data = borders) +
        geom_sf(data = merged_data, aes(fill = gini))+
        scale_fill_viridis(option = "viridis")+
        ggtitle("US Map of Inequality")+
        theme(plot.title = element_text(hjust = .5))+
        theme_void()
print(america_map)
```

US Map of Inequality


```r
#8.Use the WDI package to import in data on Gross Domestic Product (GDP) in current US dollars.
#load WDI library
library(WDI)
#get deflator data from WDI
gdp_data <- WDI(country = "all",
```

```r
                        indicator = "NY.GDP.MKTP.CD",
                        start = 2006, end = 2007, extra = FALSE, cache = NULL)
#rename gdp variable
library(data.table)
setnames(gdp_data, "NY.GDP.MKTP.CD", "gdp_current")
#get deflator data from WDI
deflator_data <- WDI(country = "all",
                     indicator = "NY.GDP.DEFL.ZS",
                     start = 2001, end = 2017, extra = FALSE, cache = NULL)
#Rename deflator variable
library(data.table)
setnames(deflator_data, "NY.GDP.DEFL.ZS", "deflator")
#subset data to get dataframe only for US dollars
usd_deflator <- subset(deflator_data, country == "United States")
#remove deflator_data
rm(deflator_data)
#Drop unnecessary variables
usd_deflator$iso2c = NULL
usd_deflator$country = NULL
#Merge data
deflated_data <- left_join(x = gdp_data, y = usd_deflator,
                           by = "year")
#do the deflation
deflated_data$gdp_deflated <- deflated_data$gdp_current/
                                (deflated_data$deflator/100)
#I picked 2015 because I wanted to see a more accurate representation of gdp
#based on a more recent year.
#head command
head(deflated_data)
```

```
##   iso2c                    country  gdp_current year deflator gdp_deflated
## 1    1A                  Arab World 1.639412e+12 2007 88.25933 1.857494e+12
## 2    1A                  Arab World 1.405832e+12 2006 85.95046 1.635631e+12
## 3    S3       Caribbean small states 6.091144e+10 2007 88.25933 6.901417e+10
## 4    S3       Caribbean small states 5.472063e+10 2006 85.95046 6.366531e+10
## 5    B8 Central Europe and the Baltics 1.264970e+12 2007 88.25933 1.433242e+12
## 6    B8 Central Europe and the Baltics 1.001499e+12 2006 85.95046 1.165205e+12
```

#10. Shiny App: 3 Main Components: 1. User Interface: Written as ui <-fluidPage() including information about inputs and outputs. 2. Server: server<- function(input, output) Has inputs and outputs. For Inputs, you need the inputId and label, and for outputs you only need the outputId. 3. Call to execute shiny app shinyApp(ui, server)

```r
#Pull pdf
library(pdftools)
```

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

```
## Using poppler version 0.73.0
```

```r
library(tidyr)
library(tidytext)
```

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

```r
library(dplyr)
library(stringr)
library(ggplot2)
#import pdf file
text <- pdf_text(pdf = "https://pdf.usaid.gov/pdf_docs/PA00TNMG.pdf")
#create dataframe
armeniatext <- as.data.frame(text, stringsAsFactors = FALSE)
#tokenize and remove stop words
#getting stop words
data("stop_words")
library(tidytext)
armeniatext <- armeniatext %>%
              unnest_tokens(word, text)
#take out stop words
armeniatext <- armeniatext %>%
              anti_join(stop_words)
```

Joining, by = "word"

```r
#top used words
armeniatext %>%
  count(word, sort = TRUE)
```

```
##                        word   n
## 1                    armenia 252
## 2                  political 207
## 3                 corruption 186
## 4                 governance 185
## 5                  democracy 132
## 6                   evidence 126
## 7                     review 121
## 8                    service 119
## 9                       2017 106
## 10                    public 105
## 11                government  96
## 12                      2018  92
## 13                   journal  90
## 14                     world  85
## 15                     civil  83
## 16                      2016  81
## 17               development  71
## 18                         1  70
## 19                    reform  68
## 20                      2015  65
## 21                transition  62
## 22                  usaid.gov  62
## 23                  economic  61
```

```
## 24                electoral  55
## 25                  social   55
## 26              university   55
## 27                    2010   53
## 28                   press   53
## 29                      al   51
## 30                    bank   51
## 31                       2   50
## 32           institutional   50
## 33                 reforms   50
## 34                    2014   49
## 35               countries   49
## 36               economics   48
## 37                    2013   47
## 38            institutions   47
## 39                     law   47
## 40                   level   47
## 41                politics   46
## 42                    2011   45
## 43                     dem   45
## 44                  policy   44
## 45                citizens   43
## 46                measures   43
## 47               armenia's   42
## 48        decentralization   42
## 49                       3   41
## 50                delivery   41
## 51                   based   39
## 52                  figure   39
## 53                 georgia   39
## 54                services   38
## 55                    2007   37
## 56                american   36
## 57               cambridge   36
## 58                 country   35
## 59                 citizen   34
## 60           international   34
## 61                    time   34
## 62                    2004   33
## 63                       4   32
## 64          accountability   32
## 65                 science   31
## 66                 ukraine   30
## 67                    york   30
## 68                    2009   29
## 69             information   29
## 70                 measure   29
## 71                   power   29
## 72                    2006   28
## 73                analysis   28
## 74                 armenian   28
## 75             democracies   28
## 76              washington   28
## 77                  change   27
```

```
## 78                    democratic  27
## 79                    monitoring  27
## 80                        sector  27
## 81                          2012  26
## 82                   performance  26
## 83                          rule  26
## 84                       studies  26
## 85                        system  26
## 86                   comparative  25
## 87                      national  25
## 88                      regional  25
## 89                  transparency  25
## 90                   bureaucrats  24
## 91                     elections  24
## 92                       factors  24
## 93                   politicians  24
## 94                          2008  23
## 95                       context  23
## 96                     including  23
## 97                    indicators  23
## 98                        soviet  23
## 99                           tax  23
## 100                            5  22
## 101                         anti  22
## 102                      economy  22
## 103                    executive  22
## 104                  governments  22
## 105               implementation  22
## 106                     judicial  22
## 107                       levels  22
## 108                      moldova  22
## 109                     programs  22
## 110                       report  22
## 111                         2005  21
## 112                       growth  21
## 113                        india  21
## 114                      parties  21
## 115                        party  21
## 116                      society  21
## 117                           dc  20
## 118                           de  20
## 119                 independence  20
## 120                participatory  20
## 121                        petty  20
## 122                    potential  20
## 123                    provision  20
## 124                       recent  20
## 125                     research  20
## 126                      systems  20
## 127                         2003  19
## 128                  constraints  19
## 129                   literature  19
## 130                        local  19
## 131                          low  19
```

```
## 132                  success  19
## 133                        8  18
## 134                community  18
## 135                difficult  18
## 136                indicator  18
## 137                princeton  18
## 138                  provide  18
## 139                   scores  18
## 140                 approach  17
## 141                   effect  17
## 142                  michael  17
## 143                 suggests  17
## 144                   daniel  16
## 145                  improve  16
## 146                     john  16
## 147                  notably  16
## 148               population  16
## 149                   region  16
## 150                    score  16
## 151                  similar  16
## 152               successful  16
## 153                     2002  15
## 154                   audits  15
## 155                coalition  15
## 156                consensus  15
## 157                   keefer  15
## 158               kyrgyzstan  15
## 159                     laws  15
## 160                    olken  15
## 161                patronage  15
## 162                resources  15
## 163                 violence  15
## 164                        6  14
## 165                   action  14
## 166                 capacity  14
## 167                education  14
## 168            effectiveness  14
## 169                 fukuyama  14
## 170                  gerring  14
## 171                    lower  14
## 172            parliamentary  14
## 173                      pay  14
## 174                     post  14
## 175                quarterly  14
## 176                    scale  14
## 177                 specific  14
## 178                   values  14
## 179                     1990  13
## 180                     2000  13
## 181                     2019  13
## 182                       25  13
## 183                  ability  13
## 184                  centers  13
## 185              clientelism  13
```

```
## 186                critical  13
## 187                 effects  13
## 188                  ethnic  13
## 189                european  13
## 190              historical  13
## 191                 liberal  13
## 192                policies  13
## 193                   rural  13
## 194                  russia  13
## 195                     set  13
## 196                   study  13
## 197                 suggest  13
## 198                      10  12
## 199                      12  12
## 200                    1995  12
## 201                   2000s  12
## 202                       7  12
## 203                       9  12
## 204             bureaucratic  12
## 205                   cards  12
## 206                 control  12
## 207                 corrupt  12
## 208                     e.g  12
## 209                     eds  12
## 210                   finan  12
## 211                 freedom  12
## 212                  highly  12
## 213                  hiring  12
## 214                increase  12
## 215            intervention  12
## 216                   james  12
## 217               liberties  12
## 218              mechanisms  12
## 219                  people  12
## 220                      pp  12
## 221                 project  12
## 222                 quality  12
## 223                servants  12
## 224             transitions  12
## 225                   urban  12
## 226                   usaid  12
## 227                      20  11
## 228                      31  11
## 229                agencies  11
## 230           authoritarian  11
## 231                behavior  11
## 232                  besley  11
## 233                  brazil  11
## 234              bureaucracy  11
## 235                 capital  11
## 236              challenges  11
## 237             comparisons  11
## 238                      ed  11
## 239               effective  11
```

```
## 240                 efforts  11
## 241              experience  11
## 242                  fiscal  11
## 243                 foreign  11
## 244                  health  11
## 245           interventions  11
## 246               judiciary  11
## 247                     key  11
## 248                  polity  11
## 249               president  11
## 250                 results  11
## 251                 revenue  11
## 252                robinson  11
## 253             saakashvili  11
## 254                strategy  11
## 255                    weak  11
## 256                      11  10
## 257                      46  10
## 258                  access  10
## 259                acemoglu  10
## 260                 address  10
## 261                 andrews  10
## 262                  annual  10
## 263           consolidation  10
## 264                   david  10
## 265              evaluation  10
## 266              experiment  10
## 267                   field  10
## 268               georgia's  10
## 269                  impact  10
## 270               implement  10
## 271              incentives  10
## 272                 indices  10
## 273                learning  10
## 274                   media  10
## 275                    note  10
## 276                o'donnell  10
## 277                outcomes  10
## 278                 private  10
## 279                     pro  10
## 280                 process  10
## 281                 program  10
## 282                projects  10
## 283                  regime  10
## 284                relevant  10
## 285                    role  10
## 286                  ruling  10
## 287             subnational  10
## 288                    tend  10
## 289                    term  10
## 290                   trend  10
## 291                woolcock  10
## 292                      15   9
## 293                      27   9
```

```
## 294                 alesina   9
## 295               attention   9
## 296             autocracies   9
## 297              azerbaijan   9
## 298                banerjee   9
## 299                  budget   9
## 300                 chapter   9
## 301                codebook   9
## 302              collective   9
## 303              conditions   9
## 304              contribute   9
## 305                    data   9
## 306                 decline   9
## 307                      di   9
## 308                document   9
## 309                  driven   9
## 310                   elite   9
## 311                  elites   9
## 312                 experts   9
## 313                   ferraz   9
## 314                grievance   9
## 315                 identify   9
## 316                       ii   9
## 317                  include   9
## 318                indonesia   9
## 319                integrity   9
## 320                   jersey   9
## 321                   mexico   9
## 322                      mid   9
## 323                  notable   9
## 324                   oxford   9
## 325                 physical   9
## 326                     poor   9
## 327                 positive   9
## 328                pritchett   9
## 329                   reason   9
## 330                  redress   9
## 331                  related   9
## 332                 relative   9
## 333              settlements   9
## 334                    short   9
## 335                    smart   9
## 336                   stable   9
## 337                  support   9
## 338                 svensson   9
## 339                    terms   9
## 340                transfers   9
## 341                       26   8
## 342                       30   8
## 343                       51   8
## 344                       69   8
## 345                  alberto   8
## 346              application   8
## 347                     bang   8
```

```
## 348                 benjamin    8
## 349                budgeting    8
## 350                 building    8
## 351                  capture    8
## 352                 cohesion    8
## 353                 continue    8
## 354                country's    8
## 355               developing    8
## 356                 easterly    8
## 357              experienced    8
## 358               facilitate    8
## 359                  finance    8
## 360                framework    8
## 361                   global    8
## 362                    grand    8
## 363                    hanna    8
## 364              immediately    8
## 365               individual    8
## 366                influence    8
## 367              initiatives    8
## 368                      jan    8
## 369                     khan    8
## 370                  leaders    8
## 371                  lessons    8
## 372                 levitsky    8
## 373                    lewis    8
## 374             meaningfully    8
## 375                   mungiu    8
## 376              necessarily    8
## 377               opposition    8
## 378                 paturyan    8
## 379                  pippidi    8
## 380                   police    8
## 381              procurement    8
## 382                  regimes    8
## 383                     ross    8
## 384                routledge    8
## 385              significant    8
## 386            significantly    8
## 387                stability    8
## 388                   status    8
## 389                   steven    8
## 390                   strong    8
## 391               structures    8
## 392                 sugiyama    8
## 393                    union    8
## 394                     west    8
## 395                       17    7
## 396                       19    7
## 397                       21    7
## 398                       24    7
## 399                       29    7
## 400                       49    7
## 401                       50    7
```

```
## 402            administration    7
## 403                       aid    7
## 404               association    7
## 405                  autonomy    7
## 406                   bardhan    7
## 407                     bauhr    7
## 408                  björkman    7
## 409                   central    7
## 410                comparison    7
## 411               competition    7
## 412                    create    7
## 413             decentralized    7
## 414                dimensions    7
## 415                discussion    7
## 416                       due    7
## 417                  election    7
## 418                federalism    7
## 419                      form    7
## 420                  handbook    7
## 421                   history    7
## 422                      hold    7
## 423                horizontal    7
## 424                       i.e    7
## 425                 increased    7
## 426                     index    7
## 427                    issues    7
## 428                 kudamatsu    7
## 429                     light    7
## 430                  lindberg    7
## 431                     major    7
## 432                   matthew    7
## 433                 moldova's    7
## 434                mookherjee    7
## 435                motivation    7
## 436                      oecd    7
## 437                    offers    7
## 438                 oligarchs    7
## 439                      pdia    7
## 440                    period    7
## 441                    philip    7
## 442               policymakers    7
## 443                   poverty    7
## 444              proportional    7
## 445                     puppo    7
## 446                   reasons    7
## 447                  recently    7
## 448                    reduce    7
## 449                  reducing    7
## 450            representation    7
## 451                   returns    7
## 452                revolution    7
## 453                     risks    7
## 454                    robert    7
## 455                    rodden    7
```

```
## 456                   rodrik   7
## 457                rothstein   7
## 458                  russian   7
## 459                  section   7
## 460                solutions   7
## 461                   stefes   7
## 462                territory   7
## 463                  testing   7
## 464                  william   7
## 465                       13   6
## 466                       14   6
## 467                       16   6
## 468                       18   6
## 469                     1997   6
## 470                     1998   6
## 471                     1999   6
## 472                     2001   6
## 473                       23   6
## 474                       36   6
## 475                       44   6
## 476                       55   6
## 477                       64   6
## 478                  absence   6
## 479              accountable   6
## 480                   actors   6
## 481               addressing   6
## 482                   affect   6
## 483                  aspects   6
## 484               assistance   6
## 485                attempted   6
## 486                 benefits   6
## 487                 biometric   6
## 488                    bolsa   6
## 489                  bribery   6
## 490                  capable   6
## 491                carefully   6
## 492                   checks   6
## 493              competitive   6
## 494                 concerns   6
## 495                  current   6
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## 497                   edward   6
## 498                 embedded   6
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## 500            environmental   6
## 501                 equality   6
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## 503              experiences   6
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## 508        fractionalization   6
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```

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## 520         intergovernmental   6
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## 523                        la   6
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## 527                      line   6
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## 533                   natural   6
## 534                 officials   6
## 535                   outcome   6
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## 539                 pierskalla 6
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## 541                  postings   6
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## 547                regulatory   6
## 548                 relations   6
## 549                     rents   6
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## 551                 republics   6
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## 553                   respect   6
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## 556                    robust   6
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## 561                   state's   6
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## 563                   subject   6
```

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## 566                 teorell    6
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## 617                 charron    5
```

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## 631            domestic    5
## 632               duflo    5
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## 637        establishing    5
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## 641             failure    5
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## 643              foster    5
## 644              fourth    5
## 645               fraud    5
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## 648               grant    5
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```

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## 692                 readers   5
## 693                  refers   5
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```

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## 823                guillermo   4
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## 826                hindering   4
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```

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## 870                 operate    4
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## 872            organization    4
## 873                  ostrom    4
## 874                overcome    4
## 875                overview    4
## 876                    pace    4
## 877              parliament    4
## 878                 partisan    4
## 879                  paying    4
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## 881                 persico    4
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## 887                    plot    4
```

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## 927                      south   4
## 928                     staffan  4
## 929                     stokes   4
## 930                  structure   4
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## 932                 sufficient   4
## 933                    summary   4
## 934                     survey   4
## 935                  takeaways   4
## 936                    tasking   4
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## 938                  technical   4
## 939                 technology   4
## 940                     threat   4
## 941                 thresholds   4
```

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## 958                weingast    4
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## 973                    2017b    3
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## 994                       91    3
## 995                       92    3
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## 1018              autocracy    3
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## 1103                      díaz   3
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## 1157                    ghana   3
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```

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## 1318                     shown   3
## 1319                     simon   3
```

```
## 1320                  sldc   3
## 1321              slightly   3
## 1322             societies   3
## 1323              solution   3
## 1324               søreide   3
## 1325                source   3
## 1326                 spend   3
## 1327              staffing   3
## 1328             stasavage   3
## 1329            statistics   3
## 1330             statutory   3
## 1331                  step   3
## 1332               stephen   3
## 1333                 steps   3
## 1334            strategies   3
## 1335              stronger   3
## 1336            structural   3
## 1337              subjects   3
## 1338            subsequent   3
## 1339             subsidies   3
## 1340          substantially   3
## 1341               succeed   3
## 1342              survival   3
## 1343                 table   3
## 1344                  text   3
## 1345                thomas   3
## 1346                 times   3
## 1347          togetherness   3
## 1348                topics   3
## 1349                tracks   3
## 1350           traditional   3
## 1351               trained   3
## 1352            trajectory   3
## 1353                  true   3
## 1354             ukrainian   3
## 1355              unbiased   3
## 1356               unclear   3
## 1357           undertaking   3
## 1358                unique   3
## 1359                   van   3
## 1360             varieties   3
## 1361            veenendaal   3
## 1362               verdier   3
## 1363               village   3
## 1364                   vol   3
## 1365                voting   3
## 1366              vreeland   3
## 1367                 wages   3
## 1368                  wake   3
## 1369                walker   3
## 1370            wantchekon   3
## 1371                  ward   3
## 1372              watchdog   3
## 1373             weinstein   3
```

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## 1375                   workers   3
## 1376                 worldwide   3
## 1377                     worth   3
## 1378                        01   2
## 1379                        02   2
## 1380                        03   2
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## 1382                       106   2
## 1383                       108   2
## 1384                       109   2
## 1385                       111   2
## 1386                       112   2
## 1387                       117   2
## 1388                      12.5   2
## 1389                       121   2
## 1390                       122   2
## 1391                       123   2
## 1392                       126   2
## 1393                       135   2
## 1394                       145   2
## 1395                      1720   2
## 1396                      1817   2
## 1397                       185   2
## 1398                      1960   2
## 1399                       197   2
## 1400                      1985   2
## 1401                      1993   2
## 1402                       2.1   2
## 1403                       2.3   2
## 1404                       2.4   2
## 1405                       2.5   2
## 1406                       2.6   2
## 1407                     2007a   2
## 1408                     2019a   2
## 1409                       205   2
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## 1411                       213   2
## 1412                       215   2
## 1413                       219   2
## 1414                       239   2
## 1415                       249   2
## 1416                       253   2
## 1417                       271   2
## 1418                       3.1   2
## 1419                       3.2   2
## 1420                       3.3   2
## 1421                       3.4   2
## 1422                       3.5   2
## 1423                       3.6   2
## 1424                       3.7   2
## 1425                       3.8   2
## 1426                       303   2
## 1427                       313   2
```

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## 1429                          320   2
## 1430                           40   2
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## 1433                          435   2
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## 1438                          553   2
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## 1442                           67   2
## 1443                           72   2
## 1444                           73   2
## 1445                           74   2
## 1446                          899   2
## 1447                           95   2
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## 1449                       absent   2
## 1450                       accord   2
## 1451                     accounts   2
## 1452                    achieving   2
## 1453                   adequately   2
## 1454                         ades   2
## 1455                   adjustment   2
## 1456                        adnan   2
## 1457                      affairs   2
## 1458                  afghanistan   2
## 1459                       agenda   2
## 1460                       albert   2
## 1461                     alienate   2
## 1462                        allen   2
## 1463                     alliance   2
## 1464                    allocated   2
## 1465                   allocation   2
## 1466                     allowing   2
## 1467                        alter   2
## 1468                 alternatives   2
## 1469                       amanda   2
## 1470                     ambition   2
## 1471                     ambrosio   2
## 1472                      amounts   2
## 1473                          ana   2
## 1474                   appearance   2
## 1475                      applied   2
## 1476                 appointments   2
## 1477                    appraisal   2
## 1478                appropriately   2
## 1479                     approval   2
## 1480                        april   2
## 1481                          apt   2
```

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## 1483                  arrests   2
## 1484                   ashraf   2
## 1485                     asim   2
## 1486               assessment   2
## 1487              assessments   2
## 1488                   assist   2
## 1489                    audit   2
## 1490              authorities   2
## 1491                  authors   2
## 1492             availability   2
## 1493                  average   2
## 1494                     avis   2
## 1495                    avoid   2
## 1496                 backdrop   2
## 1497                  ballard   2
## 1498                   banful   2
## 1499                   banuri   2
## 1500                    barry   2
## 1501                    basis   2
## 1502                     basu   2
## 1503                    begin   2
## 1504                beginning   2
## 1505             benchmarking   2
## 1506               benefitted   2
## 1507                   bennet   2
## 1508                 berkeley   2
## 1509                 bernhard   2
## 1510                    birth   2
## 1511                 bizzarro   2
## 1512                     blom   2
## 1513                       bó   2
## 1514                  bobonis   2
## 1515                   bodies   2
## 1516                    books   2
## 1517                    break   2
## 1518              brinkerhoff   2
## 1519                   brinks   2
## 1520                    broad   2
## 1521                   brollo   2
## 1522                   builds   2
## 1523                 buntaine   2
## 1524            bureaucracies   2
## 1525               businesses   2
## 1526                      cai   2
## 1527                    calls   2
## 1528                 campaign   2
## 1529               candidates   2
## 1530               capability   2
## 1531                 captured   2
## 1532                     care   2
## 1533                   career   2
## 1534                    carey   2
## 1535                   carlin   2
```

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## 1538          cautiously   2
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## 1540               cents   2
## 1541             century   2
## 1542                cham   2
## 1543             chamber   2
## 1544                chan   2
## 1545               chang   2
## 1546     characteristics   2
## 1547             cheskin   2
## 1548              cheung   2
## 1549               chief   2
## 1550               chong   2
## 1551           christian   2
## 1552         citizenship   2
## 1553               claim   2
## 1554            classify   2
## 1555           cleavages   2
## 1556        cohesiveness   2
## 1557            colombia   2
## 1558            combined   2
## 1559              coming   2
## 1560           communist   2
## 1561         communities   2
## 1562             compact   2
## 1563             company   2
## 1564          comparable   2
## 1565             compare   2
## 1566           completed   2
## 1567         complicated   2
## 1568         composition   2
## 1569             concept   2
## 1570            concepts   2
## 1571          conceptual   2
## 1572            concrete   2
## 1573          confidence   2
## 1574            conflict   2
## 1575           confusion   2
## 1576         connecticut   2
## 1577        conservative   2
## 1578        considerably   2
## 1579       consideration   2
## 1580      considerations   2
## 1581        consistently   2
## 1582        constitution   2
## 1583        constraining   2
## 1584             content   2
## 1585        contestation   2
## 1586           continues   2
## 1587          continuing   2
## 1588            contract   2
## 1589            contrast   2
```

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## 1594                    courts   2
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## 1596                   creates   2
## 1597                  creation   2
## 1598                  credible   2
## 1599                     crime   2
## 1600                     cross   2
## 1601                     crown   2
## 1602                   crucial   2
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## 1604                  cultural   2
## 1605                   curbing   2
## 1606                       cut   2
## 1607                  cynicism   2
## 1608                       dal   2
## 1609                   dealing   2
## 1610                    debate   2
## 1611                   debates   2
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## 1613             dec.usaid.gov   2
## 1614                     decay   2
## 1615                    decide   2
## 1616                 decisions   2
## 1617                   declare   2
## 1618                  declines   2
## 1619                 declining   2
## 1620                  decrease   2
## 1621                   decrees   2
## 1622                   defines   2
## 1623                definition   2
## 1624                    delays   2
## 1625               demographic   2
## 1626                department   2
## 1627                 dependent   2
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## 1630                   details   2
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## 1632                    device   2
## 1633               differences   2
## 1634                   dilemma   2
## 1635                 direction   2
## 1636                 discussed   2
## 1637               disentangle   2
## 1638                  distance   2
## 1639                  distinct   2
## 1640              distributive   2
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## 1642                 diversity   2
## 1643                 divisions   2
```

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## 1648               donaldson   2
## 1649                  donors   2
## 1650                 douglas   2
## 1651                douglass   2
## 1652             dramatically   2
## 1653                 dunning   2
## 1654                   dupas   2
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## 1656                   eager   2
## 1657                  easily   2
## 1658              egalitarian   2
## 1659                   egypt   2
## 1660             electorate's   2
## 1661                   elias   2
## 1662                  elinor   2
## 1663                elsevier   2
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## 1665                emerging   2
## 1666               emphasize   2
## 1667               empirical   2
## 1668              empowerment   2
## 1669                      en   2
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## 1671              enforcement   2
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## 1675                 enjoyed   2
## 1676                  entail   2
## 1677             equilibrium   2
## 1678                     era   2
## 1679                  eroded   2
## 1680               escaleras   2
## 1681               essential   2
## 1682                  ethics   2
## 1683               ethnicity   2
## 1684                europe's   2
## 1685                    evan   2
## 1686                   exams   2
## 1687               exception   2
## 1688                expected   2
## 1689             expenditure   2
## 1690            expenditures   2
## 1691              explaining   2
## 1692               exporting   2
## 1693                 exposing   2
## 1694             facilitates   2
## 1695            facilitating   2
## 1696                factions   2
## 1697                   facto   2
```

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## 1699                    familia   2
## 1700                     farrar   2
## 1701                      favor   2
## 1702                   feedback   2
## 1703                       fell   2
## 1704                      fight   2
## 1705                    finding   2
## 1706                       fits   2
## 1707                     flight   2
## 1708                       food   2
## 1709                      force   2
## 1710                     forced   2
## 1711                forthcoming   2
## 1712                    fosters   2
## 1713                 fragmented   2
## 1714                  francisco   2
## 1715                    fraught   2
## 1716                     freely   2
## 1717                       fuel   2
## 1718                    fuertes   2
## 1719                fundamental   2
## 1720                     funded   2
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## 1722                    garfias   2
## 1723                  generated   2
## 1724                   genocide   2
## 1725                  geographic   2
## 1726             geographically   2
## 1727                  geography   2
## 1728                     ghatak   2
## 1729                     giroux   2
## 1730              globalization   2
## 1731                      goetz   2
## 1732               government's   2
## 1733                     grades   2
## 1734                    gradual   2
## 1735                      graph   2
## 1736                     greene   2
## 1737                   gridlock   2
## 1738                     grimes   2
## 1739                    gugerty   2
## 1740                   guidance   2
## 1741                     gulzar   2
## 1742                       haan   2
## 1743               habyarimana   2
## 1744                   hamilton   2
## 1745                     hansen   2
## 1746                     harder   2
## 1747                     hasmik   2
## 1748                    hasnain   2
## 1749                      haven   2
## 1750                       held   2
## 1751                    helpful   2
```

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## 1752                henrik   2
## 1753               herbert   2
## 1754               hidalgo   2
## 1755             highlight   2
## 1756            highlights   2
## 1757                   hit   2
## 1758             hoktanyan   2
## 1759           homogeneity   2
## 1760               horizon   2
## 1761           hostilities   2
## 1762                 https   2
## 1763                 huber   2
## 1764                hummel   2
## 1765                  hurt   2
## 1766                  igor   2
## 1767                  ijaz   2
## 1768             illustrate   2
## 1769                  imai   2
## 1770            imbalances   2
## 1771               impetus   2
## 1772          implementing   2
## 1773            imputation   2
## 1774                inform   2
## 1775              informed   2
## 1776            innovation   2
## 1777           institution   2
## 1778      institutionalist   2
## 1779              intended   2
## 1780             intending   2
## 1781              internal   2
## 1782             intervene   2
## 1783           introducing   2
## 1784              involves   2
## 1785        irregularities   2
## 1786                  jail   2
## 1787               january   2
## 1788                jeremy   2
## 1789                  joel   2
## 1790                joseph   2
## 1791                 joshi   2
## 1792                  juan   2
## 1793                 judge   2
## 1794                julien   2
## 1795         justification   2
## 1796              karceski   2
## 1797                  karl   2
## 1798               kaushik   2
## 1799                  king   2
## 1800               kingdon   2
## 1801                 kiser   2
## 1802             kitschelt   2
## 1803               klinger   2
## 1804                 klomp   2
## 1805               knutsen   2
```

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## 1807                 kosack  2
## 1808                  kosec  2
## 1809                  kraay  2
## 1810                leakage  2
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## 1812                  legal  2
## 1813            legislation  2
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## 1815                leonard  2
## 1816               lessmann  2
## 1817              lifestyle  2
## 1818             likelihood  2
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## 1821                 limits  2
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## 1823                lindert  2
## 1824                locally  2
## 1825                  logic  2
## 1826                 losers  2
## 1827                 lowest  2
## 1828                   lows  2
## 1829                  lucan  2
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## 1831               macartan  2
## 1832                 machin  2
## 1833               magaloni  2
## 1834               maintain  2
## 1835              maintains  2
## 1836              mainwaring  2
## 1837                 makers  2
## 1838       malapportionment  2
## 1839            manipulated  2
## 1840                 manner  2
## 1841                manning  2
## 1842                marcelo  2
## 1843                 margin  2
## 1844                margins  2
## 1845                  marie  2
## 1846                   mark  2
## 1847                 marked  2
## 1848                markets  2
## 1849              markwardt  2
## 1850                 marred  2
## 1851               masayuki  2
## 1852          massachusetts  2
## 1853                massive  2
## 1854              mastruzzi  2
## 1855                  mauro  2
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## 1857                mccargo  2
## 1858                 mcmann  2
## 1859                meister  2
```

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## 1862                meritocratic   2
## 1863           meritocratically   2
## 1864                  michelitch   2
## 1865                    michigan   2
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## 1867                      mikhail   2
## 1868                     minimum   2
## 1869                       minor   2
## 1870                      miriam   2
## 1871               miscellaneous   2
## 1872                     missing   2
## 1873                     mission   2
## 1874                       mitra   2
## 1875                       mixed   2
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## 1877                    momentum   2
## 1878                        mono   2
## 1879                      monroe   2
## 1880                      morrow   2
## 1881                        move   2
## 1882                    multiple   2
## 1883               muralidharan   2
## 1884                     naghavi   2
## 1885                     nations   2
## 1886                     navarro   2
## 1887                    nemtsova   2
## 1888                     neutral   2
## 1889                         ngo   2
## 1890                    nicholas   2
## 1891                         nie   2
## 1892                     niehaus   2
## 1893                        nona   2
## 1894               nonetheless    2
## 1895                        norm   2
## 1896                    northern   2
## 1897                     nowadays   2
## 1898                   nutrition   2
## 1899                       oates   2
## 1900 odvhzjk4nwqtm2yymi00yjrml   2
## 1901                         oil   2
## 1902                      oliver   2
## 1903                        olle´   2
## 1904                     ongoing   2
## 1905               oportunidades   2
## 1906                    optimism   2
## 1907                     options   2
## 1908               organizations   2
## 1909                     ottoman   2
## 1910                      output   2
## 1911                     outputs   2
## 1912                     overlap   2
## 1913                 overlapping   2
```

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## 1917                    pandey   2
## 1918                     paolo   2
## 1919                       par   2
## 1920                  pasquale   2
## 1921                  pathways   2
## 1922                  patterns   2
## 1923                   penguin   2
## 1924                   peoples   2
## 1925                   periods   2
## 1926                   permits   2
## 1927                    person   2
## 1928                 pervasive   2
## 1929                  pessimism   2
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## 1931                     phase   2
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## 1933               philippines   2
## 1934                    pierre   2
## 1935                     pinto   2
## 1936                  piolatto   2
## 1937                 pittsburgh   2
## 1938                     plans   2
## 1939                    platas   2
## 1940                  platform   2
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## 1943                  polygons   2
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## 1950                  previous   2
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## 1953                priorities   2
## 1954             privatization   2
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## 1956                processing   2
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## 1958                 prominent   2
## 1959                     prone   2
## 1960                    proper   2
## 1961                  properly   2
## 1962                  property   2
## 1963                  proposed   2
## 1964                prosperity   2
## 1965                  protects   2
## 1966                  publicly   2
## 1967                publishing   2
```

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## 1971               qualified   2
## 1972                   quick   2
## 1973                 quickly   2
## 1974                     quo   2
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## 1976                  rafael   2
## 1977                 raffler   2
## 1978                 raising   2
## 1979                  ranges   2
## 1980                   rapid   2
## 1981                    rate   2
## 1982               rationale   2
## 1983                   rauch   2
## 1984                  reader   2
## 1985              recanatini   2
## 1986                 receive   2
## 1987               receiving   2
## 1988            reconsidered   2
## 1989          reconstruction   2
## 1990                recorded   2
## 1991                recruited   2
## 1992                regime's   2
## 1993                register   2
## 1994                registry   2
## 1995                 regular   2
## 1996                 relates   2
## 1997                  relied   2
## 1998                  relies   2
## 1999               religious   2
## 2000                    rely   2
## 2001                  remmer   2
## 2002                 removed   2
## 2003                replaced   2
## 2004               replicate   2
## 2005               represents   2
## 2006                 require   2
## 2007             resignation   2
## 2008                  resist   2
## 2009              respective   2
## 2010             responsible   2
## 2011              responsive   2
## 2012          responsiveness   2
## 2013                    rest   2
## 2014                 ricardo   2
## 2015                    risk   2
## 2016                  ronald   2
## 2017                 rooting   2
## 2018                    rosa   2
## 2019                 roughly   2
## 2020                  runoff   2
## 2021                russia's   2
```

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## 2022                  russia's  2
## 2023                     saari  2
## 2024                    saddle  2
## 2025                    sanjay  2
## 2026                 satellite  2
## 2027                scartascini  2
## 2028                  schalkwyk  2
## 2029               schargrodsky  2
## 2030                    scheme  2
## 2031                   scholars  2
## 2032                   schultz  2
## 2033                   schwabe  2
## 2034                 scientists  2
## 2035                      sean  2
## 2036                   sectors  2
## 2037                   seizing  2
## 2038                    selway  2
## 2039                      send  2
## 2040                   seventh  2
## 2041                    shares  2
## 2042               similarities  2
## 2043                   simmons  2
## 2044                    simply  2
## 2045                   simpser  2
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## 2047                 situations  2
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## 2049                  skaaning  2
## 2050                smartcards  2
## 2051                    snyder  2
## 2052                  societal  2
## 2053                 sociology  2
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## 2055                     sole´  2
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## 2059                    spain  2
## 2060                  speaking  2
## 2061                   speech  2
## 2062                 spending  2
## 2063                   stages  2
## 2064              standardized  2
## 2065                standards  2
## 2066                    stanig  2
## 2067                    start  2
## 2068               statistical  2
## 2069                   stefan  2
## 2070                  stelios  2
## 2071                   stepan  2
## 2072                 stephens  2
## 2073                 sticking  2
## 2074                    stop  2
## 2075               storeygard  2
```

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## 2077               streamline    2
## 2078             strengthened    2
## 2079            strengthening    2
## 2080                 stressed    2
## 2081                 stresses    2
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## 2083                  studied    2
## 2084                    stuti    2
## 2085             subsequently    2
## 2086                  subsidy    2
## 2087                successes    2
## 2088             successfully    2
## 2089                suggested    2
## 2090               suggesting    2
## 2091                 suitable    2
## 2092                sukhtankar    2
## 2093                 superior    2
## 2094              supervising    2
## 2095                  surveys    2
## 2096                    svend    2
## 2097                   svolik    2
## 2098              switzerland    2
## 2099                symbiotic    2
## 2100               systematic    2
## 2101                     tape    2
## 2102                   target    2
## 2103                targeting    2
## 2104                     task    2
## 2105                    taxes    2
## 2106                     team    2
## 2107                    tella    2
## 2108                 tendency    2
## 2109                 tensions    2
## 2110                    terry    2
## 2111                     test    2
## 2112                    texas    2
## 2113                    theft    2
## 2114                theriault    2
## 2115                 threaten    2
## 2116                  threats    2
## 2117                threshold    2
## 2118                   timing    2
## 2119                 timmons    2
## 2120                     tina    2
## 2121                     tito    2
## 2122  tkxnjktztcxmjm2ndbmy2uy    2
## 2123                    tocci    2
## 2124                   toomet    2
## 2125                      top    2
## 2126                  torsten    2
## 2127                  touched    2
## 2128                 tracking    2
## 2129                    trade    2
```

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## 2130           training   2
## 2131              traps   2
## 2132              trial   2
## 2133            trigger   2
## 2134            tyranny   2
## 2135          unanimous   2
## 2136          undergone   2
## 2137          undertake   2
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## 2139         undeveloped  2
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## 2993                    emerald  1
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## 3047         experimentation   1
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```

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```

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## 3751                prospects   1
## 3752               protecting   1
## 3753                 protests   1
## 3754                   proven   1
## 3755                provinces   1
## 3756              provocative   1
## 3757                    proxy   1
## 3758               przeworksi   1
## 3759                 públicas   1
## 3760              publication   1
## 3761             publications   1
## 3762                 pursuing   1
## 3763                   pushes   1
## 3764                  putting   1
## 3765                   puzzle   1
## 3766                  pyndick   1
## 3767                qualities   1
## 3768                    quash   1
## 3769                 quashing   1
## 3770                    quest   1
## 3771                 question   1
## 3772                    quiet   1
## 3773                     quit   1
## 3774                    quits   1
## 3775                  radical   1
## 3776                radically   1
## 3777                   rainer   1
## 3778                   raised   1
## 3779                   raises   1
## 3780                 randolph   1
## 3781            randomization   1
## 3782               randomize   1
## 3783                     rank   1
## 3784                 rankings   1
## 3785                      rao   1
## 3786                   rarely   1
## 3787                    rarer   1
## 3788                    rasul   1
## 3789                   rating   1
## 3790                   razvan   1
## 3791                 reaching   1
## 3792                     read   1
## 3793                     real   1
## 3794                realities   1
## 3795                 realized   1
## 3796                  rebecca   1
## 3797               rebuilding   1
## 3798                 received   1
## 3799                   recipe   1
## 3800                  recipes   1
## 3801                recognize   1
## 3802                recommend   1
## 3803                 recounts   1
```

```
## 3804             recourse  1
## 3805              reduces  1
## 3806            reduction  1
## 3807                redux  1
## 3808           reelection  1
## 3809              reflect  1
## 3810          reflections  1
## 3811             reflects  1
## 3812             reformers  1
## 3813             reforming  1
## 3814               regard  1
## 3815            regionally  1
## 3816              regions  1
## 3817             regulate  1
## 3818             reinvent  1
## 3819          rejuvenating  1
## 3820               relate  1
## 3821             released  1
## 3822                 remi  1
## 3823               remind  1
## 3824          remittances  1
## 3825                 rent  1
## 3826              repetto  1
## 3827              replace  1
## 3828            replacing  1
## 3829           replicable  1
## 3830          replication  1
## 3831       representative  1
## 3832          represented  1
## 3833              request  1
## 3834             required  1
## 3835            requiring  1
## 3836          researchers  1
## 3837         resettlement  1
## 3838            residents  1
## 3839              resides  1
## 3840               resign  1
## 3841             resigned  1
## 3842              resolve  1
## 3843            resorting  1
## 3844            responses  1
## 3845       responsibility  1
## 3846               retain  1
## 3847           rethinking  1
## 3848        retrogression  1
## 3849            revamping  1
## 3850             revealed  1
## 3851              reveals  1
## 3852             reversal  1
## 3853           review101.3  1
## 3854             reviewed  1
## 3855              reviews  1
## 3856              revising  1
## 3857             revisited  1
```

```
## 3858          reza   1
## 3859        riding   1
## 3860    rigorously   1
## 3861         riots   1
## 3862          rise   1
## 3863        ritzen   1
## 3864         river   1
## 3865        rivera   1
## 3866     robbinson   1
## 3867       roberto   1
## 3868        rogger   1
## 3869        romain   1
## 3870         roots   1
## 3871         rossi   1
## 3872       roumeen   1
## 3873        rounds   1
## 3874         ruben   1
## 3875     rubenfeld   1
## 3876     rubinfeld   1
## 3877        rubric   1
## 3878        ruixue   1
## 3879       rulings   1
## 3880       runners   1
## 3881      russians   1
## 3882       russkii   1
## 3883            s1   1
## 3884           s38   1
## 3885          saad   1
## 3886     sacrifice   1
## 3887     safeguard   1
## 3888  safeguarding   1
## 3889          sage   1
## 3890       saharan   1
## 3891        salary   1
## 3892       samples   1
## 3893        samvel   1
## 3894        sandip   1
## 3895    sanitation   1
## 3896           sao   1
## 3897        sashik   1
## 3898        saumya   1
## 3899         sawat   1
## 3900      scandals   1
## 3901       scarcer   1
## 3902     schalwayk   1
## 3903        schatz   1
## 3904       schemes   1
## 3905       scholar   1
## 3906      scholarly   1
## 3907   scholarship   1
## 3908       schools   1
## 3909        schott   1
## 3910        schulz   1
## 3911      schuster   1
```

```
## 3912              sciences   1
## 3913                scopes   1
## 3914              scorecard   1
## 3915             scorecards   1
## 3916                    se   1
## 3917                   sea   1
## 3918             seamlessly   1
## 3919                search   1
## 3920             searching   1
## 3921              sections   1
## 3922              securing   1
## 3923                  seek   1
## 3924               seeking   1
## 3925                  seim   1
## 3926              selected   1
## 3927             selection   1
## 3928            selectorate   1
## 3929             sensitive   1
## 3930            separation   1
## 3931                sergio   1
## 3932                serouj   1
## 3933                 serra   1
## 3934             serritzlew   1
## 3935              settings   1
## 3936            settlement   1
## 3937            seventeenth   1
## 3938              severely   1
## 3939            shanazarian   1
## 3940                 shape   1
## 3941                shaped   1
## 3942               sharply   1
## 3943                 shaun   1
## 3944             sheheryar   1
## 3945               shelter   1
## 3946           shevardnadze   1
## 3947                shield   1
## 3948                 shing   1
## 3949              shleifer   1
## 3950                 shops   1
## 3951                   shu   1
## 3952                signal   1
## 3953               silanes   1
## 3954           simultaneous   1
## 3955         simultaneously   1
## 3956                single   1
## 3957              sinikukka   1
## 3958              situated   1
## 3959              siverson   1
## 3960             skeptical   1
## 3961               skilled   1
## 3962                slower   1
## 3963                 slows   1
## 3964                 smith   1
## 3965              smoothly   1
```

```
## 3966                 sms   1
## 3967                snap   1
## 3968               soberg   1
## 3969            socialist   1
## 3970            sociceties  1
## 3971            societally  1
## 3972         sociological   1
## 3973            sociologie   1
## 3974                sofia   1
## 3975         sokbuntheoen   1
## 3976                 sole   1
## 3977                 solo   1
## 3978              solving   1
## 3979               sophia   1
## 3980               sorely   1
## 3981                søren   1
## 3982               sought   1
## 3983                 sour   1
## 3984              sources   1
## 3985            southeast   1
## 3986            southwest   1
## 3987            sovereign   1
## 3988                   sp   1
## 3989               speaks   1
## 3990              special   1
## 3991          specialists   1
## 3992        specification   1
## 3993             specifics  1
## 3994               sphere   1
## 3995              spiller   1
## 3996              spurred   1
## 3997             stabilize  1
## 3998               staged   1
## 3999                stake   1
## 4000          stakeholder   1
## 4001         stakeholders   1
## 4002                stand   1
## 4003             standout   1
## 4004              started   1
## 4005               steady   1
## 4006             stealing   1
## 4007              steffes   1
## 4008                 stein   1
## 4009             stemming   1
## 4010               sticky   1
## 4011             stiftung   1
## 4012             stiglitz   1
## 4013                store   1
## 4014              strapped  1
## 4015         streamlining   1
## 4016              streams   1
## 4017          streetlight   1
## 4018              stretch   1
## 4019            stretching  1
```

```
## 4020                strife   1
## 4021              strongly   1
## 4022              struggle   1
## 4023               study's   1
## 4024              studying   1
## 4025             subjected   1
## 4026            subjective   1
## 4027            subsection   1
## 4028               subtler   1
## 4029             succeeded   1
## 4030             successor   1
## 4031            succumbing   1
## 4032               sudarno   1
## 4033              suffered   1
## 4034               suffers   1
## 4035          sufficiently   1
## 4036                 suite   1
## 4037                 suits   1
## 4038                   sum   1
## 4039               sumarto   1
## 4040            summarized   1
## 4041            summarizes   1
## 4042              summary1   1
## 4043                summer   1
## 4044               suncica   1
## 4045          supervisor's   1
## 4046           supervisors   1
## 4047                 suppl   1
## 4048                supple   1
## 4049             supplying   1
## 4050            supporting   1
## 4051               supreme   1
## 4052               surpass   1
## 4053           surrounding   1
## 4054           sustainable   1
## 4055            sustaining   1
## 4056            sustenance   1
## 4057                sweden   1
## 4058                syrian   1
## 4059              system's   1
## 4060              systemic   1
## 4061             tabellini   1
## 4062                tactic   1
## 4063                tandem   1
## 4064              tangible   1
## 4065            tantravahi   1
## 4066                  tara   1
## 4067               teacher   1
## 4068                   tel   1
## 4069    telecommunications   1
## 4070             televised   1
## 4071            televising   1
## 4072                   ten   1
## 4073                tenets   1
```

```
## 4074            tenison   1
## 4075              tense   1
## 4076          tentative   1
## 4077           tenuous   1
## 4078            tenure   1
## 4079        territorial   1
## 4080       territories   1
## 4081             texts   1
## 4082              thad   1
## 4083          the1990s   1
## 4084            themes   1
## 4085       theoretical   1
## 4086            thesis   1
## 4087           thierry   1
## 4088        threatened   1
## 4089              tied   1
## 4090              ties   1
## 4091             tiger   1
## 4092        timeframes   1
## 4093         tolerance   1
## 4094              toll   1
## 4095               tom   1
## 4096          tomilayo   1
## 4097           tommasi   1
## 4098           tommaso   1
## 4099              tool   1
## 4100             tools   1
## 4101             topic   1
## 4102          tortured   1
## 4103             total   1
## 4104           totally   1
## 4105            totals   1
## 4106           tracing   1
## 4107          tradition   1
## 4108     transformative   1
## 4109       transforming   1
## 4110          translate   1
## 4111        transparent   1
## 4112      transparently   1
## 4113         treatment   1
## 4114            treats   1
## 4115           trended   1
## 4116          triggers   1
## 4117          tropical   1
## 4118           trouble   1
## 4119        truthfully   1
## 4120        tumultuous   1
## 4121           turnout   1
## 4122          turnover   1
## 4123           twitter   1
## 4124             tyler   1
## 4125         typically   1
## 4126     uis.unesco.org   1
## 4127              uk's   1
```

```
## 4128              unable   1
## 4129       unaccountable   1
## 4130            unbroken   1
## 4131           uncertain   1
## 4132          undergoing   1
## 4133           undermine   1
## 4134           underpins   1
## 4135        underprovide   1
## 4136      underprovision   1
## 4137        underscoring   1
## 4138       understanding   1
## 4139          unelected   1
## 4140        unequivocally   1
## 4141            uniform   1
## 4142          unimagined   1
## 4143            uniquely   1
## 4144                unit   1
## 4145           unitarism   1
## 4146             unlike   1
## 4147             unlock   1
## 4148          unofficial   1
## 4149        unsuccessful   1
## 4150            updated   1
## 4151              upper   1
## 4152               urge   1
## 4153               us's   1
## 4154              usage   1
## 4155            utilize   1
## 4156                 v8   1
## 4157             vacuum   1
## 4158            valeria   1
## 4159              vally   1
## 4160           variable   1
## 4161             varied   1
## 4162             varies   1
## 4163             varsha   1
## 4164           varuzhan   1
## 4165               vary   1
## 4166       vashakmadze   1
## 4167           venegoni   1
## 4168             versus   1
## 4169            vibrant   1
## 4170        vicissitudes   1
## 4171            victory   1
## 4172             viewed   1
## 4173                vig   1
## 4174               viii   1
## 4175         vijayendra   1
## 4176            vikrant   1
## 4177             virtue   1
## 4178            virtues   1
## 4179           virtuous   1
## 4180            visible   1
## 4181             vision   1
```

```
## 4182                 vocations   1
## 4183                   voronin   1
## 4184                       w.w   1
## 4185                  wacziarg   1
## 4186                      wait   1
## 4187                   wallace   1
## 4188                     walle   1
## 4189                     water   1
## 4190                 weakening   1
## 4191                  weakness   1
## 4192                     weigh   1
## 4193                    weight   1
## 4194                wellhausen   1
## 4195                    west's   1
## 4196                     wheel   1
## 4197                   whistle   1
## 4198                     white   1
## 4199                 wholesale   1
## 4200                     wider   1
## 4201                 widescale   1
## 4202                willingness  1
## 4203                   winning   1
## 4204                    winter   1
## 4205                    wisely   1
## 4206                      woes   1
## 4207                     won't   1
## 4208                      word   1
## 4209                     words   1
## 4210                  workfare   1
## 4211                   world's   1
## 4212                     wrong   1
## 4213         www.worldbank.org   1
## 4214                      xliv   1
## 4215                       xun   1
## 4216                       yan   1
## 4217                    yashar   1
## 4218                   yevgeny   1
## 4219                  yevgenya   1
## 4220                        yi   1
## 4221                      ying   1
## 4222                     youth   1
## 4223                  yriyovych  1
## 4224                yushchenko   1
## 4225                     yusuf   1
## 4226                   zachary   1
## 4227                     zahid   1
## 4228                    zhanna   1
```

```r
#show top 5
armeniatext %>%
  count(word, sort = TRUE) %>%
  filter(n > 130)
```

```
##          word   n
```

```
## 1      armenia 252
## 2    political 207
## 3  corruption 186
## 4  governance 185
## 5    democracy 132
```

```r
#load Billboard hot 100
#read data into R
library(rvest)
```

```
## Loading required package: xml2
```

```
##
## Attaching package: 'rvest'
```

```
## The following object is masked from 'package:purrr':
##
##      pluck
```

```
## The following object is masked from 'package:readr':
##
##      guess_encoding
```

```r
library(dplyr)
hot100exam <- "https://www.billboard.com/charts/hot-100"
#use rvestto obtain identify all of the nodes in the webpage
hot100 <-read_html(hot100exam)
#nodes
body_nodes <- hot100 %>%
              html_node('body') %>%
              html_children()
#Rank
rank <- hot100 %>%
      rvest::html_nodes('body') %>%
      xml2::xml_find_all("//span[contains(@class,
                            'chart-element__rank__number')]")%>%
      rvest::html_text()
#Artist
artist <- hot100 %>%
        rvest::html_nodes('body') %>%
        xml2::xml_find_all("//span[contains(@class,
                              'chart-element__information__artist')]")%>%
        rvest::html_text()
#Title
title <- hot100 %>%
  rvest::html_nodes('body') %>%
  xml2::xml_find_all("//span[contains(@class,
                              'chart-element__information__song')]")%>%
  rvest::html_text()
#LastWeek
#Rank
rank <- hot100 %>%
```

```
        rvest::html_nodes('body') %>%
        xml2::xml_find_all("//span[contains(@class,
                          'chart-element__rank__number')]")%>%
        rvest::html_text()
#Artist
artist <- hot100 %>%
        rvest::html_nodes('body') %>%
        xml2::xml_find_all("//span[contains(@class,
                            'chart-element__information__artist')]")%>%
        rvest::html_text()
#Last Week
lastweek <- hot100 %>%
  rvest::html_nodes('body') %>%
  xml2::xml_find_all("//button[contains(@class,
                    'chart-sorter__button')],
                    [contains@aria-pressed, 'true')")%>%
  rvest::html_text()
```

```
## Warning in FUN(X[[i]], ...): Invalid expression [1207]
```