BEA - NIPA - Download

Datasets

François Geerolf

Contents

Introduction

```
rm(list = ls())
pklist <- c("tidyverse")
source("https://fgeerolf.github.io/datasets/load-packages.R")
options(tibble.print_max = 100)
```

An updated version of this note is available here: https://fgeerolf.github.io/datasets/bea-nipa-download.pdf

Introduction

Bureau of Economics Analysis NIPA: https://apps.bea.gov/iTable/index_nipa.cfm

Loading Datasets

BEA-NIPA Series

```
nipa.series <- read.delim("https://bea.gov/national/Release/TXT/SeriesRegister.txt",
                          sep = ",",
                          colClasses = "character",
                          col.names = c("seriescode", "serieslabel", "metricname",
                                        "calculationtype", "defaultscale", "tableid",
                                        "seriescodeparents"),
                          dec = ",")
```

BEA-NIPA Quarter

```
nipa <- read.delim("https://bea.gov/national/Release/TXT/NipaDataQ.txt",
                   sep = ",",
                   colClasses = "character",
                   col.names = c("seriescode", "period", "value"), dec = ",") %>%
  mutate(value = value %>% gsub(",", "", .) %>% as.numeric,
         year = period %>% substr(1, 4) %>% as.numeric,
         qtr = period %>% substr(6, 6) %>% as.numeric,
         yearqtr = year + (qtr - 1)/4) %>%
  left_join(nipa.series %>%
              select(seriescode, variable.desc1 = serieslabel, variable.desc2 = metricname,
                     variable.desc3 = calculationtype, variable.desc4 = tableid),
            by = "seriescode") %>%
  select(variable = seriescode, contains("variable.desc"), yearqtr, value)
```

BEA-NIPA Annual

```
nipa.annual <- read.delim("https://bea.gov/national/Release/TXT/NipaDataA.txt",
                   sep = ",",
                   colClasses = "character",
                   col.names = c("seriescode", "period", "value"), dec = ",") %>%
  mutate(value = value %>% gsub(",", "", .) %>% as.numeric,
         year = period %>% substr(1, 4) %>% as.numeric) %>%
  left_join(nipa.series %>%
              select(seriescode, variable.desc1 = serieslabel, variable.desc2 = metricname,
                     variable.desc3 = calculationtype, variable.desc4 = tableid),
            by = "seriescode") %>%
  select(variable = seriescode, contains("variable.desc"), year, value)
```

Saving Datasets

BEA-NIPA Quarter

```
save(nipa, file = "nipa.RData")
```

BEA-NIPA Year

```
save(nipa.annual, file = "nipa.annual.RData")
```

BEA-NIPA Series

```
save(nipa.series, file = "nipa.series.RData")
```

Computing Environment

```
Sys.time()
```

```
## [1] "2018-10-12 12:01:28 PDT"
```

```
sessionInfo()
```

```
## R version 3.5.1 (2018-07-02)
## Platform: x86_64-apple-darwin15.6.0 (64-bit)
## Running under: macOS High Sierra 10.13.6
##
## Matrix products: default
## BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats     graphics  grDevices utils     datasets  methods   base
##
## other attached packages:
##  [1] bindrcpp_0.2.2  forcats_0.3.0   stringr_1.3.1   dplyr_0.7.6
##  [5] purrr_0.2.5     readr_1.1.1     tidyr_0.8.1     tibble_1.4.2
##  [9] ggplot2_3.0.0   tidyverse_1.2.1
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_0.12.18     cellranger_1.1.0 pillar_1.3.0     compiler_3.5.1
##  [5] plyr_1.8.4       bindr_0.1.1      tools_3.5.1      digest_0.6.15
##  [9] lubridate_1.7.4  jsonlite_1.5     evaluate_0.11    nlme_3.1-137
## [13] gtable_0.2.0     lattice_0.20-35  pkgconfig_2.0.2  rlang_0.2.2
## [17] cli_1.0.0        rstudioapi_0.7   yaml_2.2.0       haven_1.1.2
## [21] withr_2.1.2      xml2_1.2.0       httr_1.3.1       knitr_1.20
## [25] hms_0.4.2        rprojroot_1.3-2  grid_3.5.1       tidyselect_0.2.4
## [29] glue_1.3.0       R6_2.2.2         readxl_1.1.0     rmarkdown_1.10
## [33] modelr_0.1.2     magrittr_1.5     backports_1.1.2  scales_1.0.0
## [37] htmltools_0.3.6  rvest_0.3.2      assertthat_0.2.0 colorspace_1.3-2
## [41] stringi_1.2.4    lazyeval_0.2.1   munsell_0.5.0    broom_0.5.0
## [45] crayon_1.3.4
```