BLS - LAUS - Download

Datasets

François Geerolf

Introduction

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

Introduction

An updated version of this note is available here: https://fgeerolf.github.io/datasets/bls-la-download.pdf The documentation for the LAUS is available here: https://www.bls.gov/lau/ The flat data files of the LAUS are: https://download.bls.gov/pub/time.series/la/ Link: https://download.bls.gov/pub/time.series/la/

```
url <- "https://download.bls.gov/pub/time.series/la/"</pre>
```

Scrapping Data

Elements of the scrapping data:

```
read html(url) %>%
 html_nodes("a") %>%
 html text(trim = TRUE) %>%
  as.data.frame %>%
  rename(X0 = ".") %>%
  as.tibble
# # A tibble: 82 x 1
     <fct>
# 1 [To Parent Directory]
# 2 la.area
# 3 la.area_type
# 4 la.areamaps
# 5 la.contacts
# 6 la.data.O.CurrentUOO-04
# 7 la.data.0.CurrentU05-09
# 8 la.data.O.CurrentU10-14
# 9 la.data.O.CurrentU15-19
# 10 la.data.0.CurrentU90-94
# 11 la.data.0.CurrentU95-99
# 12 la.data.1.CurrentS
# 13 la.data.10.Arkansas
# 14 la.data.11.California
```

- # 15 la.data.12.Colorado
- # 16 la.data.13.Connecticut
- # 17 la.data.14.Delaware
- # 18 la.data.15.DC
- # 19 la.data.16.Florida
- # 20 la.data.17.Georgia
- # 21 la.data.18.Hawaii
- # 22 la.data.19.Idaho
- # 23 la.data.2.AllStatesU
- # 24 la.data.20.Illinois
- # 25 la.data.21.Indiana
- # 26 la.data.22.Iowa
- # 27 la.data.23.Kansas
- # 28 la.data.24.Kentucky
- # 29 la.data.25.Louisiana
- # 30 la.data.26.Maine
- # 31 la.data.27.Maryland
- # 32 la.data.28.Massachusetts
- # 33 la.data.29.Michigan
- # 34 la.data.3.AllStatesS
- # 35 la.data.30.Minnesota
- # 36 la.data.31.Mississippi
- # 37 la.data.32.Missouri
- # 38 la.data.33.Montana
- # 39 la.data.34.Nebraska
- # 40 la.data.35.Nevada
- # 41 la.data.36.NewHampshire
- # 42 la.data.37.NewJersey
- # 43 la.data.38.NewMexico
- # 44 la.data.39.NewYork
- # 45 la.data.4.RegionDivisionU
- # 46 la.data.40.NorthCarolina
- # 47 la.data.41.NorthDakota
- # 48 la.data.42.0hio
- # 49 la.data.43.0klahoma
- # 50 la.data.44.Oregon
- # 51 la.data.45.Pennsylvania
- # 52 la.data.46.PuertoRico
- # 53 la.data.47.RhodeIsland
- # 54 la.data.48.SouthCarolina
- # 55 la.data.49.SouthDakota
- # 56 la.data.5.RegionDivisionS
- # 57 la.data.50.Tennessee
- # 58 la.data.51.Texas
- # 59 la.data.52.Utah
- # 60 la.data.53.Vermont
- # 61 la.data.54.Virginia
- # 62 la.data.56.Washington
- # 63 la.data.57.WestVirginia
- # 64 la.data.58.Wisconsin
- # 65 la.data.59.Wyoming
- # 66 la.data.60.Metro
- # 67 la.data.61.Division
- # 68 la.data.62.Micro

```
# 69 la.data.63.Combined
# 70 la.data.64.County
# 71 la.data.65.City
# 72 la.data.7.Alabama
# 73 la.data.8.Alaska
# 74 la.data.9.Arizona
# 75 la.footnote
# 76 la.map info
# 77 la.measure
# 78 la.period
# 79 la.series
# 80 la.state_region_division
# 81 la.txt
# 82 maps
read_html(url) %>%
  str_match_all("<a href=\"(.*?)\"") %>%
  as.data.frame %>%
          mutate(X2 = paste0("https://download.bls.gov", X2)) %>%
  as.tibble
# Warning in stri_match_all_regex(string, pattern, omit_no_match = TRUE,
# opts_regex = opts(pattern)): argument is not an atomic vector; coercing
# # A tibble: 82 x 2
#
    X 1
                                       X2
#
     <fct>
                                       <chr>
  1 "<a href=\"/pub/time.series/\""</pre>
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# 81 "<a href=\"/pub/time.series/la/l~ https://download.bls.gov/pub/time.se~
# 82 "<a href=\"/pub/time.series/la/m~ https://download.bls.gov/pub/time.se~
```

```
datasets <- read_html(url) %>%
  html_nodes("a") %>%
  html_text(trim = TRUE) %>%
  as.data.frame %>%
  rename(X0 = ".") %>%
  cbind(read html(url) %>%
          str_match_all("<a href=\"(.*?)\"") %>%
          as.data.frame %>%
          mutate(X2 = paste0("https://download.bls.gov", X2))) %>%
 mutate_all(paste)
# Warning in stri_match_all_regex(string, pattern, omit_no_match = TRUE,
# opts_regex = opts(pattern)): argument is not an atomic vector; coercing
datasets %>%
 as.tibble
# # A tibble: 82 x 3
                                              Х2
    XΟ
     <chr>>
                                              <chr>
  1 [To Parent D~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
  2 la.area
                   "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 3 la.area_type
                  "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
                   "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 4 la.areamaps
# 5 la.contacts
                   "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 6 la.data.0.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 7 la.data.0.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~</pre>
# 8 la.data.O.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 9 la.data.0.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 10 la.data.0.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 11 la.data.0.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 12 la.data.1.Cu~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 13 la.data.10.A~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~</pre>
# 14 la.data.11.C~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 15 la.data.12.C~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 16 la.data.13.C~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 17 la.data.14.D~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 18 la.data.15.DC "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 20 la.data.17.G~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 21 la.data.18.H~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 22 la.data.19.I~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 23 la.data.2.Al~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 24 la.data.20.1~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 25 la.data.21.I~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 26 la.data.22.I~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 27 la.data.23.K~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 28 la.data.24.K~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 29 la.data.25.L~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 30 la.data.26.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 31 la.data.27.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 32 la.data.28.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 33 la.data.29.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 34 la.data.3.Al~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 35 la.data.30.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 36 la.data.31.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 37 la.data.32.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 38 la.data.33.M~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 39 la.data.34.N~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 45 la.data.4.Re~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 46 la.data.40.N~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 47 la.data.41.N~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 52 la.data.46.P~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 53 la.data.47.R~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 54 la.data.48.S~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 55 la.data.49.S~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
# 56 la.data.5.Re~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 58 la.data.51.T~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 60 la.data.53.V~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 62 la.data.56.W~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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# 64 la.data.58.W~ "<a href=\"/pub/time.seri~ https://download.bls.gov/pub/~
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Downloading all data

```
for (i in 2:80){
  file <- datasets[i, "X0"]</pre>
```

```
cat("\nDownloading from BLS Website LA:", file)
  assign(file, read.csv(datasets[i, "X2"], sep = "\t", row.names = NULL))
  do.call(save, list(file, file = paste0(file, ".RData")))
}
# Downloading from BLS Website LA: la.area
# Downloading from BLS Website LA: la.area_type
# Downloading from BLS Website LA: la.areamaps
# Downloading from BLS Website LA: la.contacts
# Downloading from BLS Website LA: la.data.O.CurrentU00-04
# Downloading from BLS Website LA: la.data.O.CurrentU05-09
# Downloading from BLS Website LA: la.data.O.CurrentU10-14
# Downloading from BLS Website LA: la.data.O.CurrentU15-19
# Downloading from BLS Website LA: la.data.O.CurrentU90-94
# Downloading from BLS Website LA: la.data.O.CurrentU95-99
# Downloading from BLS Website LA: la.data.1.CurrentS
# Downloading from BLS Website LA: la.data.10.Arkansas
# Downloading from BLS Website LA: la.data.11.California
# Downloading from BLS Website LA: la.data.12.Colorado
# Downloading from BLS Website LA: la.data.13.Connecticut
# Downloading from BLS Website LA: la.data.14.Delaware
# Downloading from BLS Website LA: la.data.15.DC
# Downloading from BLS Website LA: la.data.16.Florida
# Downloading from BLS Website LA: la.data.17.Georgia
# Downloading from BLS Website LA: la.data.18.Hawaii
# Downloading from BLS Website LA: la.data.19.Idaho
# Downloading from BLS Website LA: la.data.2.AllStatesU
# Downloading from BLS Website LA: la.data.20.Illinois
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# Downloading from BLS Website LA: la.data.29.Michigan
# Downloading from BLS Website LA: la.data.3.AllStatesS
# Downloading from BLS Website LA: la.data.30.Minnesota
# Downloading from BLS Website LA: la.data.31.Mississippi
# Downloading from BLS Website LA: la.data.32.Missouri
# Downloading from BLS Website LA: la.data.33.Montana
# Downloading from BLS Website LA: la.data.34.Nebraska
# Downloading from BLS Website LA: la.data.35.Nevada
# Downloading from BLS Website LA: la.data.36.NewHampshire
# Downloading from BLS Website LA: la.data.37.NewJersey
# Downloading from BLS Website LA: la.data.38.NewMexico
# Downloading from BLS Website LA: la.data.39.NewYork
# Downloading from BLS Website LA: la.data.4.RegionDivisionU
# Downloading from BLS Website LA: la.data.40.NorthCarolina
# Downloading from BLS Website LA: la.data.41.NorthDakota
# Downloading from BLS Website LA: la.data.42.0hio
# Downloading from BLS Website LA: la.data.43.0klahoma
```

```
# Downloading from BLS Website LA: la.data.44.Oregon
# Downloading from BLS Website LA: la.data.45.Pennsylvania
# Downloading from BLS Website LA: la.data.46.PuertoRico
# Downloading from BLS Website LA: la.data.47.RhodeIsland
# Downloading from BLS Website LA: la.data.48.SouthCarolina
# Downloading from BLS Website LA: la.data.49.SouthDakota
# Downloading from BLS Website LA: la.data.5.RegionDivisionS
# Downloading from BLS Website LA: la.data.50.Tennessee
# Downloading from BLS Website LA: la.data.51.Texas
# Downloading from BLS Website LA: la.data.52.Utah
# Downloading from BLS Website LA: la.data.53.Vermont
# Downloading from BLS Website LA: la.data.54.Virginia
# Downloading from BLS Website LA: la.data.56.Washington
# Downloading from BLS Website LA: la.data.57.WestVirginia
# Downloading from BLS Website LA: la.data.58.Wisconsin
# Downloading from BLS Website LA: la.data.59.Wyoming
# Downloading from BLS Website LA: la.data.60.Metro
# Downloading from BLS Website LA: la.data.61.Division
# Downloading from BLS Website LA: la.data.62.Micro
# Downloading from BLS Website LA: la.data.63.Combined
# Downloading from BLS Website LA: la.data.64.County
# Downloading from BLS Website LA: la.data.65.City
# Downloading from BLS Website LA: la.data.7.Alabama
# Downloading from BLS Website LA: la.data.8.Alaska
# Downloading from BLS Website LA: la.data.9.Arizona
# Downloading from BLS Website LA: la.footnote
# Downloading from BLS Website LA: la.map_info
# Downloading from BLS Website LA: la.measure
# Downloading from BLS Website LA: la.period
# Downloading from BLS Website LA: la.series
# Downloading from BLS Website LA: la.state_region_division
```

Computing Environment

```
## [1] "2018-09-23 21:56:59 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 rvest_0.3.2
                                                        forcats_0.3.0
                                        xm12_1.2.0
   [5] stringr_1.3.1
                                        purrr_0.2.5
                                                        readr_1.1.1
##
                        dplyr_0.7.6
##
   [9] tidyr_0.8.1
                        tibble_1.4.2
                                        ggplot2_3.0.0
                                                        tidyverse_1.2.1
## [13] curl 3.2
##
## 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
                         httr_1.3.1
                                          knitr_1.20
                                                           hms_0.4.2
## [25] rprojroot_1.3-2
                         grid_3.5.1
                                          tidyselect_0.2.4 glue_1.3.0
## [29] R6_2.2.2
                         fansi_0.3.0
                                          readxl_1.1.0
                                                           rmarkdown_1.10
## [33] selectr_0.4-1
                         modelr_0.1.2
                                          magrittr_1.5
                                                           backports_1.1.2
                                          assertthat 0.2.0 colorspace 1.3-2
## [37] scales 1.0.0
                         htmltools_0.3.6
## [41] utf8_1.1.4
                         stringi_1.2.4
                                          lazyeval_0.2.1
                                                           munsell_0.5.0
## [45] broom_0.5.0
                         crayon_1.3.4
```