Bureau of Labor Statistics (BLS)

R Statistics

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Load packages:

```
Instructions are taken from the following url:
```

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

Scrapping Data

Elements of the scrapping data:

```
read_html("https://download.bls.gov/pub/time.series/in/") %>%
  html_nodes("a") %>%
  html_text(trim = TRUE) %>%
  as.data.frame %>%
  rename(X0 = ".") %>%
  as.tibble
# # A tibble: 14 x 1
    XΟ
     <fct>
# 1 [To Parent Directory]
# 2 in.contacts
# 3 in.country
# 4 in.data.O.Current
# 5 in.data.1.AllData
# 6 in.economicgroup
# 7 in.economicseries
# 8 in.footnote
# 9 in.industry
# 10 in.period
# 11 in.periodicity
# 12 in.seasonal
# 13 in.series
# 14 in.txt
read_html("https://download.bls.gov/pub/time.series/in/") %>%
  str_match_all("<a href=\"(.*?)\"") %>%
  as.data.frame %>%
          mutate(X2 = paste0("https://download.bls.gov", X2)) %>%
# Warning in stri_match_all_regex(string, pattern, omit_no_match = TRUE, opts_regex = opts(pattern)): a
# # A tibble: 14 x 2
    Х1
                                                          X2
     <fct>
                                                          <chr>
# 1 "<a href=\"/pub/time.series/\""</pre>
                                                          https://download.bls.gov/pub/time.series/
```

https://download.bls.gov/pub/time.series/in/in

2 "<a href=\"/pub/time.series/in/in.contacts\""</pre>

```
5 "<a href=\"/pub/time.series/in/in.data.1.AllData\""
                                                          https://download.bls.gov/pub/time.series/in/in
 6 "<a href=\"/pub/time.series/in/in.economicgroup\""
                                                          https://download.bls.gov/pub/time.series/in/in
  7 "<a href=\"/pub/time.series/in/in.economicseries\""
                                                          https://download.bls.gov/pub/time.series/in/in
# 8 "<a href=\"/pub/time.series/in/in.footnote\""
                                                          https://download.bls.gov/pub/time.series/in/in
# 9 "<a href=\"/pub/time.series/in/in.industry\""</pre>
                                                          https://download.bls.gov/pub/time.series/in/in
# 10 "<a href=\"/pub/time.series/in/in.period\""
                                                          https://download.bls.gov/pub/time.series/in/in
# 11 "<a href=\"/pub/time.series/in/in.periodicity\""
                                                          https://download.bls.gov/pub/time.series/in/in
# 12 "<a href=\"/pub/time.series/in/in.seasonal\""
                                                          https://download.bls.gov/pub/time.series/in/in
# 13 "<a href=\"/pub/time.series/in/in.series\""</pre>
                                                          https://download.bls.gov/pub/time.series/in/in
# 14 "<a href=\"/pub/time.series/in/in.txt\""
                                                          https://download.bls.gov/pub/time.series/in/in
datasets <- read_html("https://download.bls.gov/pub/time.series/in/") %>%
  html_nodes("a") %>%
  html_text(trim = TRUE) %>%
  as.data.frame %>%
  rename(X0 = ".") %>%
  cbind(read_html("https://download.bls.gov/pub/time.series/in/") %>%
          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)): a
datasets %>%
  as.tibble
# # A tibble: 14 x 3
     XΟ
                           X1
                                                                                 X2
     <chr>>
                           <chr>
                                                                                 <chr>
  1 [To Parent Directory]
                           "<a href=\"/pub/time.series/\""</pre>
                                                                                 https://download.bls.gov
  2 in.contacts
                           "<a href=\"/pub/time.series/in/in.contacts\""
                                                                                 https://download.bls.gov
                           "<a href=\"/pub/time.series/in/in.country\""</pre>
                                                                                 https://download.bls.gov
  3 in.country
  4 in.data.O.Current
                           "<a href=\"/pub/time.series/in/in.data.0.Current\""
                                                                                https://download.bls.gov
  5 in.data.1.AllData
                           "<a href=\"/pub/time.series/in/in.data.1.AllData\""
                                                                                https://download.bls.gov
  6 in.economicgroup
                           "<a href=\"/pub/time.series/in/in.economicgroup\""
                                                                                 https://download.bls.gov
                           "<a href=\"/pub/time.series/in/in.economicseries\""
 7 in.economicseries
                                                                                 https://download.bls.gov
                           "<a href=\"/pub/time.series/in/in.footnote\""
# 8 in.footnote
                                                                                 https://download.bls.gov
# 9 in.industry
                           "<a href=\"/pub/time.series/in/in.industry\""
                                                                                 https://download.bls.gov
                           "<a href=\"/pub/time.series/in/in.period\""</pre>
# 10 in.period
                                                                                 https://download.bls.gov
                           "<a href=\"/pub/time.series/in/in.periodicity\""
# 11 in.periodicity
                                                                                 https://download.bls.gov
# 12 in.seasonal
                           "<a href=\"/pub/time.series/in/in.seasonal\""
                                                                                 https://download.bls.gov
# 13 in.series
                           "<a href=\"/pub/time.series/in/in.series\""
                                                                                 https://download.bls.gov
                           "<a href=\"/pub/time.series/in/in.txt\""
# 14 in.txt
                                                                                 https://download.bls.gov
```

https://download.bls.gov/pub/time.series/in/in

https://download.bls.gov/pub/time.series/in/in

Downloading all data

3 "<a href=\"/pub/time.series/in/in.country\""</pre>

4 "<a href=\"/pub/time.series/in/in.data.0.Current\""

```
setwd("/Users/geerolf/Drive/work/datasets/bls-ilc/")
for (i in 4:13){
  file <- datasets[i, "X0"]</pre>
```

```
cat("\nDownloading from BLS Website ILC:", file)
assign(file, read.csv(datasets[i, "X2"], sep = "\t"))
do.call(save, list(file, file = pasteO(file, ".RData")))
}

#
# Downloading from BLS Website ILC: in.data.0.Current
# Downloading from BLS Website ILC: in.data.1.AllData
# Downloading from BLS Website ILC: in.economicgroup
# Downloading from BLS Website ILC: in.economicseries
# Downloading from BLS Website ILC: in.footnote
# Downloading from BLS Website ILC: in.industry
# Downloading from BLS Website ILC: in.period
# Downloading from BLS Website ILC: in.period
# Downloading from BLS Website ILC: in.seasonal
# Downloading from BLS Website ILC: in.series

rm(datasets)
```