IMF - Example

Datasets

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Contents

Preamble

```
rm(list = ls())
pklist <- c("tidyverse")
source("https://fgeerolf.github.io/datasets/load-packages.R")
options(tibble.print_max = 20)
```

WEO

Load

```
load("/Users/geerolf/Drive/work/datasets/imf/WEO.RData")
load("/Users/geerolf/Drive/work/datasets/imf/WEO.variablenames.RData")
```

List variables

```
WEO.variablenames %>%
  ungroup %>%
  mutate_at(vars(-Value), funs(paste)) %>%
  rename(nobs = Value) %>%
  as.tibble
```

```
# # A tibble: 45 x 5
#    variable  Subject.Descriptor     Subject.Notes           Units     nobs
#    <chr>     <chr>                  <chr>                   <chr>    <int>
#  1 BCA       Current account balan~ Current account is all~ U.S. do~  7620
#  2 BCA_NGDPD Current account balan~ Current account is all~ Percent~  7614
#  3 FLIBOR6   Six-month London inte~ ""                      Percent     80
```

```
#  4 GGR       General government re~ Revenue consists of ta~ Nationa~  6234
#  5 GGR_NGDP  General government re~ Revenue consists of ta~ Percent~  6209
#  6 GGSB      General government st~ The structural budget ~ Nationa~  2350
#  7 GGSB_NPG~ General government st~ The structural budget ~ Percent~  2186
#  8 GGX       General government to~ Total expenditure cons~ Nationa~  6178
#  9 GGX_NGDP  General government to~ Total expenditure cons~ Percent~  6143
# 10 GGXCNL    General government ne~ Net lending (+)/ borro~ Nationa~  6131
# # ... with 35 more rows
```

IFS

There is:

- Employment in Manufacturing, Index

```
load("/Users/geerolf/Drive/work/datasets/imf/IFS.RData")
load("/Users/geerolf/Drive/work/datasets/imf/IFS.variablenames.RData")
```

Manufacturing

```
IFS %>%
  filter(Indicator.Code == "AIPMA_IX") %>%
  mutate(Freq = Time.Period %>% paste %>% substr(5, 5),
         Freq = replace(Freq, Freq == "", "A")) %>%
  filter(Freq == "A") %>%
  mutate(year = Time.Period %>% paste %>% as.numeric) %>%
  group_by(Country.Name) %>%
  summarise(period = paste0(min(year), "-", max(year))) %>%
  as.tibble
```

```
# # A tibble: 88 x 2
#    Country.Name           period
#    <fct>                  <chr>
#  1 Albania                2005-2016
#  2 Angola                 2007-2017
#  3 Argentina              2005-2016
#  4 Armenia, Republic of   2010-2017
#  5 Australia              1990-2017
#  6 Austria                1988-2017
#  7 Bahrain, Kingdom of    2008-2016
#  8 Belgium                1958-2017
#  9 Bosnia and Herzegovina 2006-2017
# 10 Bulgaria               2005-2017
# # ... with 78 more rows
```

```
IFS %>%
  filter(Indicator.Code == "AIPMA_IX") %>%
  mutate(Freq = Time.Period %>% paste %>% substr(5, 5),
         Freq = replace(Freq, Freq == "", "A")) %>%
  filter(Freq == "Q") %>%
  mutate(time = Time.Period %>% paste %>% substr(1, 4) %>% as.numeric +
           (Time.Period %>% paste %>% substr(6, 6) %>% as.numeric - 1)/4) %>%
  group_by(Country.Name) %>%
```

```
  summarise(period = paste0(min(time), "-", max(time))) %>%
  as.tibble
```

```
# # A tibble: 85 x 2
#    Country.Name           period
#    <fct>                  <chr>
#  1 Albania                2005-2017.5
#  2 Angola                 2006.75-2017.75
#  3 Argentina              2005-2017.5
#  4 Australia              1990-2018
#  5 Austria                1996-2018
#  6 Bahrain, Kingdom of    2008-2017.5
#  7 Belgium                1958-2018
#  8 Bosnia and Herzegovina 2006-2017.75
#  9 Bulgaria               2005-2018
# 10 Canada                 2000-2018
# # ... with 75 more rows
```

```
IFS %>%
  filter(Indicator.Code == "NGDPVA_ISIC4_C_XDC") %>%
  mutate(Freq = Time.Period %>% paste %>% substr(5, 5),
         Freq = replace(Freq, Freq == "", "A")) %>%
  filter(Freq == "Q") %>%
  mutate(time = Time.Period %>% paste %>% substr(1, 4) %>% as.numeric +
           (Time.Period %>% paste %>% substr(6, 6) %>% as.numeric - 1)/4) %>%
  group_by(Country.Name) %>%
  summarise(period = paste0(min(time), "-", max(time))) %>%
  as.tibble
```

```
# # A tibble: 51 x 2
#    Country.Name           period
#    <fct>                  <chr>
#  1 Albania                2008-2018
#  2 Armenia, Republic of   2009-2017.5
#  3 Austria                1995-2018.25
#  4 Belarus                2009-2017.75
#  5 Bosnia and Herzegovina 2008-2017.75
#  6 Bulgaria               2000-2018
#  7 Chile                  2013-2017.5
#  8 Costa Rica             1991-2017
#  9 Croatia                2000-2018
# 10 Cyprus                 1995-2018
# # ... with 41 more rows
```

Computing Environment

```
Sys.time()
```

```
## [1] "2018-09-24 22:20:51 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         fansi_0.3.0      readxl_1.1.0
## [33] rmarkdown_1.10   modelr_0.1.2     magrittr_1.5     backports_1.1.2
## [37] scales_1.0.0     htmltools_0.3.6  rvest_0.3.2      assertthat_0.2.0
## [41] colorspace_1.3-2 utf8_1.1.4       stringi_1.2.4    lazyeval_0.2.1
## [45] munsell_0.5.0    broom_0.5.0      crayon_1.3.4
```