gather

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```
recent_ILO_LFP <- read_csv("raw_data/recent-ILO-LFP.csv")
```

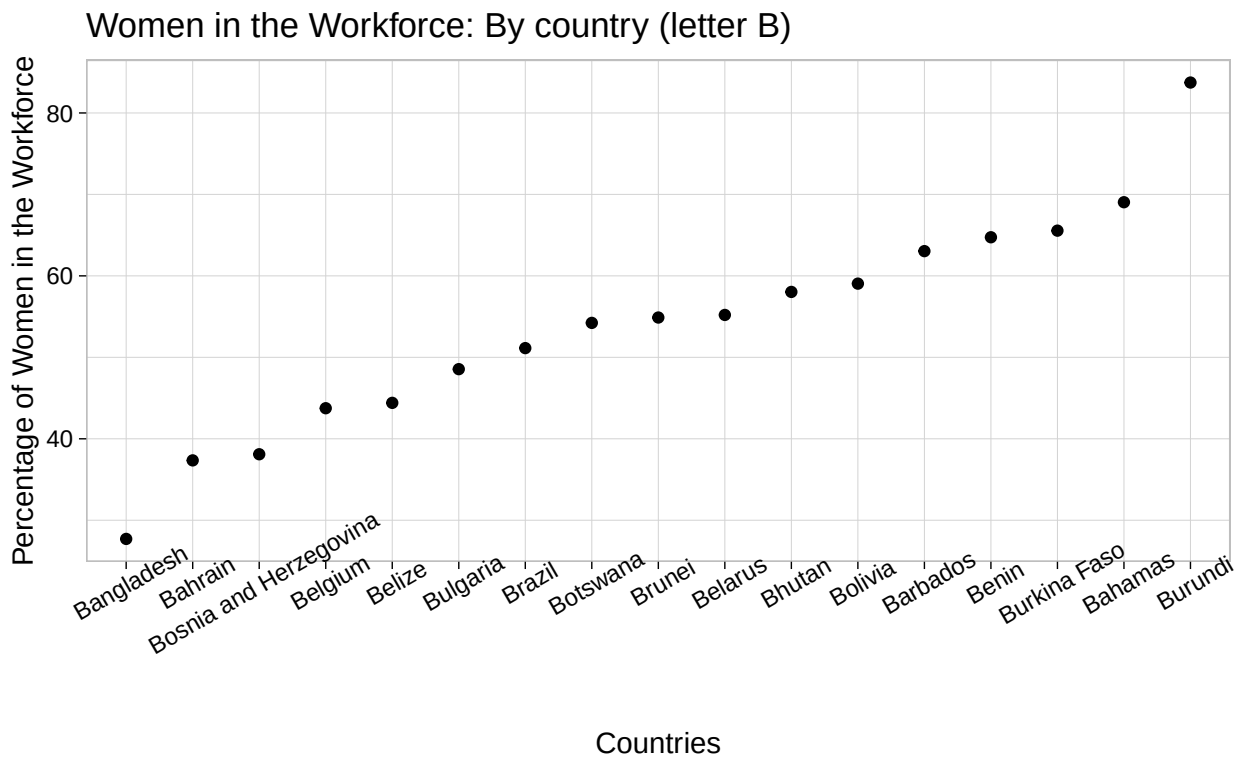
```
##
## -- Column specification --------------------------------------------------------
## cols(
##   Entity = col_character(),
##   Code = col_character(),
##   Year = col_double(),
##   `Labor force participation rate, female (% of female population ages 15+) (modeled ILO estimate)` =
## )
```

```
View(recent_ILO_LFP)

saveRDS(recent_ILO_LFP, file = "shiny-app/data/ILO_LFP.rds")

x <- readRDS(file = "shiny-app/data/ILO_LFP.rds")

idea_export_35_5f8a138aec279 <- read_csv("raw_data/idea_export_35_5f8a138aec279.csv")
```

```
##
## -- Column specification --------------------------------------------------------
## cols(
##   Country = col_character(),
##   `Parliament type` = col_character(),
##   `Voluntary political party quotas` = col_character(),
##   `Single/Lower House > Quota type` = col_character(),
##   `Upper house > Quota type` = col_character(),
##   `Sub-National Level > Quota type` = col_character(),
##   `Single/Lower House > Constitutional quota details` = col_character(),
##   `Upper house > Constitutional quota details` = col_character(),
##   `Sub-National Level > Constitutional quota details` = col_character(),
##   `Single/Lower House > Electoral law quota details` = col_character(),
##   `Upper house > Electoral law quota details` = col_character(),
##   `Sub-National Level > Electoral law quota details` = col_character()
## )
```

```
View(idea_export_35_5f8a138aec279)

saveRDS(idea_export_35_5f8a138aec279, file = "shiny-app/data/political_structure_country.rds")
```

```r
y <- readRDS(file = "shiny-app/data/political_structure_country.rds")

x %>%
  rename("female_labor" = `Labor force participation rate, female (% of female population ages 15+) (mo

  # The initial column title is to long and I can't seem to be able to put it on
  # two lines because rename() stops working.

  group_by(Entity) %>%
  summarize(avg = mean(female_labor), .groups = "drop") %>%
  filter(str_detect(Entity, "^B")) %>%

  # This filters the Entity column to find all names that start with a capital
  # B. str_detect is part of the stringr package.

ggplot(mapping = aes(x = reorder_within(Entity, within = avg, by = avg), y = avg)) +
  geom_point() +
  scale_x_reordered() +
    theme_linedraw() +
    theme(panel.grid.major = element_line(color = "lightgrey"),
        panel.grid.minor = element_line(color = "lightgrey"),
        panel.background = element_rect(fill = "white"),
        panel.border = element_rect(color = "grey", fill = NA)) +
    theme(axis.text.x = element_text(angle=30)) +
     labs(title = "Women in the Workforce: By country (letter B)",
          x = "Countries",
          y = "Percentage of Women in the Workforce",
          caption = "\n  \n Source: Inter-Parliamentary Union")
```




```
# This is a combination of themes that I did in the past and really enjoyed, so
# decided to copy it here as well. reorder_withing and scale_x_reorder helped me
# reorger values n the x axis based on the values on the y axis.
```

```
women_in_parliament_2008 <- read_excel("raw_data/cpdsIIc/Women in Parliament UPDATED 2008.xls")
  View(women_in_parliament_2008)

CPDS_1960_2018 <- read_excel("raw_data/CPDS_1960-2018_Update_2020.xlsx")
```

```
## New names:
## * year -> year...1
## * year -> year...25
## * conserv9 -> conserv9...59
## * year -> year...106
## * conserv9 -> conserv9...138
## * ...
```

```
View(CPDS_1960_2018)


CPDS_1960_2018
```

```
## # A tibble: 1,722 x 321
##    year...1 country countryn iso   iso3n cpds1  poco    eu   emu gov_right1
```

```
##       <dbl> <chr>      <dbl> <chr> <dbl> <dbl> <dbl> <dbl> <dbl>      <dbl>
##  1     1960 Austra~        1 AUS      36     1     0     0     0        100
##  2     1961 Austra~        1 AUS      36     1     0     0     0        100
##  3     1962 Austra~        1 AUS      36     1     0     0     0        100
##  4     1963 Austra~        1 AUS      36     1     0     0     0        100
##  5     1964 Austra~        1 AUS      36     1     0     0     0        100
##  6     1965 Austra~        1 AUS      36     1     0     0     0        100
##  7     1966 Austra~        1 AUS      36     1     0     0     0        100
##  8     1967 Austra~        1 AUS      36     1     0     0     0        100
##  9     1968 Austra~        1 AUS      36     1     0     0     0        100
## 10     1969 Austra~        1 AUS      36     1     0     0     0        100
## # ... with 1,712 more rows, and 311 more variables: gov_cent1 <dbl>,
## #   gov_left1 <dbl>, gov_party <dbl>, gov_new <dbl>, gov_gap <dbl>,
## #   gov_chan <dbl>, gov_right2 <dbl>, gov_cent2 <dbl>, gov_left2 <dbl>,
## #   gov_right3 <dbl>, gov_cent3 <dbl>, gov_left3 <dbl>, gov_sup <dbl>,
## #   gov_type <dbl>, year...25 <dbl>, country_01 <chr>, elect <dttm>,
## #   vturn <dbl>, social1 <dbl>, social2 <dbl>, social3 <dbl>, social4 <dbl>,
## #   social5 <dbl>, social6 <dbl>, social7 <dbl>, social8 <dbl>, leftsoc1 <dbl>,
## #   leftsoc2 <dbl>, leftsoc3 <dbl>, leftsoc4 <dbl>, leftsoc5 <dbl>,
## #   comm1 <dbl>, comm2 <dbl>, comm3 <dbl>, comm4 <dbl>, postcom1 <dbl>,
## #   postcom2 <dbl>, agrarian1 <dbl>, agrarian2 <dbl>, agrarian3 <dbl>,
## #   conserv1 <dbl>, conserv2 <dbl>, conserv3 <dbl>, conserv4 <dbl>,
## #   conserv5 <dbl>, conserv6 <dbl>, conserv7 <dbl>, conserv8 <dbl>,
## #   conserv9...59 <dbl>, relig1 <dbl>, relig2 <dbl>, relig3 <dbl>,
## #   relig4 <dbl>, relig5 <dbl>, relig6 <dbl>, relig7 <dbl>, liberal1 <dbl>,
## #   liberal2 <dbl>, liberal3 <dbl>, liberal4 <dbl>, liberal5 <dbl>,
## #   liberal6 <dbl>, liberal7 <dbl>, liberal8 <dbl>, liberal9 <dbl>,
## #   protest1 <dbl>, protest2 <dbl>, protest3 <dbl>, protest4 <dbl>,
## #   protest5 <dbl>, green1 <dbl>, green2 <dbl>, green3 <dbl>, ethnic1 <dbl>,
## #   ethnic2 <dbl>, ethnic3 <dbl>, ethnic4 <dbl>, right1 <dbl>, right2 <dbl>,
## #   right3 <dbl>, right4 <dbl>, right5 <dbl>, right6 <dbl>, regio1 <dbl>,
## #   femin1 <dbl>, monarch1 <dbl>, person1 <dbl>, pension1 <dbl>,
## #   pension2 <dbl>, nonlbl1 <dbl>, nonlbl2 <dbl>, allia1 <dbl>, allia2 <dbl>,
## #   allia3 <dbl>, others <dbl>, year...106 <dbl>, country_02 <chr>,
## #   ssocial1 <dbl>, ssocial2 <dbl>, ssocial3 <dbl>, ...
```

```
post_comm_list <- read_excel("raw_data/cpdsIIc/Women in Parliament UPDATED 2008.xls") %>%
  mutate(post_comm = "TRUE") %>%
  select(country, post_comm) %>%
  distinct() %>%
right_join(CPDS_1960_2018, by = "country") %>%
  mutate(post_comm = ifelse(is.na(post_comm), FALSE, TRUE))

  saveRDS(post_comm_list, file = "shiny-app/data/post_comm_list.rds")
```

```
post_comm_list %>%
  rename("year" = 'year...1') %>%
  filter(year == 2018) %>%
  ggplot(aes(x = reorder_within(country, womenpar, womenpar), y = womenpar, color = post_comm)) +
  geom_point() +
  facet_wrap(~post_comm, drop = TRUE, scales = "free_x") +
  scale_x_reordered() +
    theme_linedraw() +
    theme(panel.grid.major = element_line(color = "lightgrey"),
```

```
      panel.grid.minor = element_line(color = "lightgrey"),
      panel.background = element_rect(fill = "white"),
      panel.border = element_rect(color = "grey", fill = NA)) +
scale_color_discrete(name = "Communist Status",
                     labels = c("Never Communist", "Post-Communist"))+
  labs(title = "Women in Parliament: Never Communist v. Post- Communist Countries",
       x = "OECD Countries",
       y = "Percentage of Women in Parliament",
       caption = "\n  \n Source: CPDS") +
  theme(axis.text.x = element_text(angle=30))
```