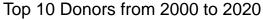
Homework 3

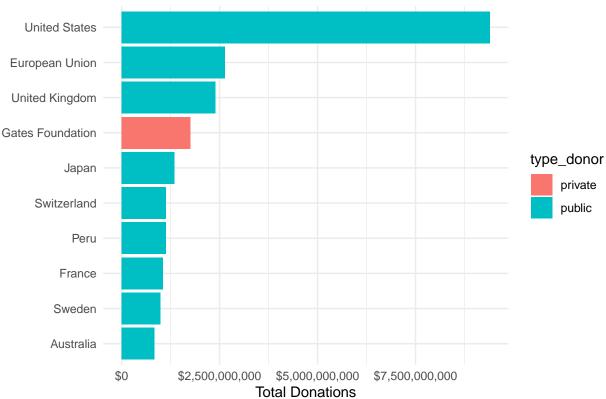
Medha Manish

2022-10-16

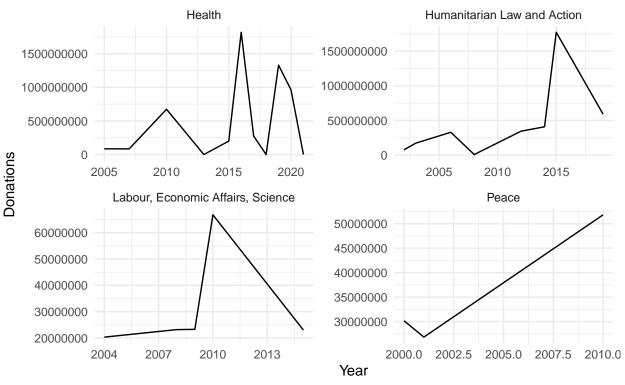
Income of International Organizations

```
io_income_rs %>% # select data
  drop_na(donor) %>%
 group_by(donor, type_donor) %>%
 summarise(amountnominal = sum(amount_nominal, na.rm = TRUE)) %>%
  arrange(-amountnominal) %>%
  ungroup() %>%
  slice(1:10) %>% # slice the top 10
  ggplot(mapping = aes(x = reorder(donor, amountnominal), y = amountnominal, fill = type_donor)) +
  geom_col() +
  scale_y_continuous(labels = scales::dollar) +
 labs(title = "Top 10 Donors from 2000 to 2020",
      x = NULL,
      y = "Total Donations") +
  scale_colour_discrete(name="Donor Type") +
  theme minimal() +
  coord_flip()
```





Donations by the USA from 2000 to 2020



Beware: Scales of axis vary by facet

```
io_income_rs %>% # select data
  filter(year == 2000 | year == 2020) %>%
  drop_na() %>%
  ggplot(mapping = aes(x = as.factor(year), y = amount_nominal, fill = type_donor)) +
  geom_boxplot() +
  scale_y_log10(labels = scales::dollar) +
  scale_fill_brewer(palette = "Set2") +
  theme_minimal() +
  labs(x = NULL, y = "Donations")
```



```
io_income_rs %>% # select data
drop_na() %>%
ggplot(mapping = aes(x = year, y = amount_nominal)) +
geom_point(aes(shape = type_donor), alpha = .5) +
facet_wrap(~issue_area) +
geom_smooth(method = "lm", colour = "red") +
scale_y_log10() +
theme_minimal() +
labs(x = NULL, y = "Donations")
```

