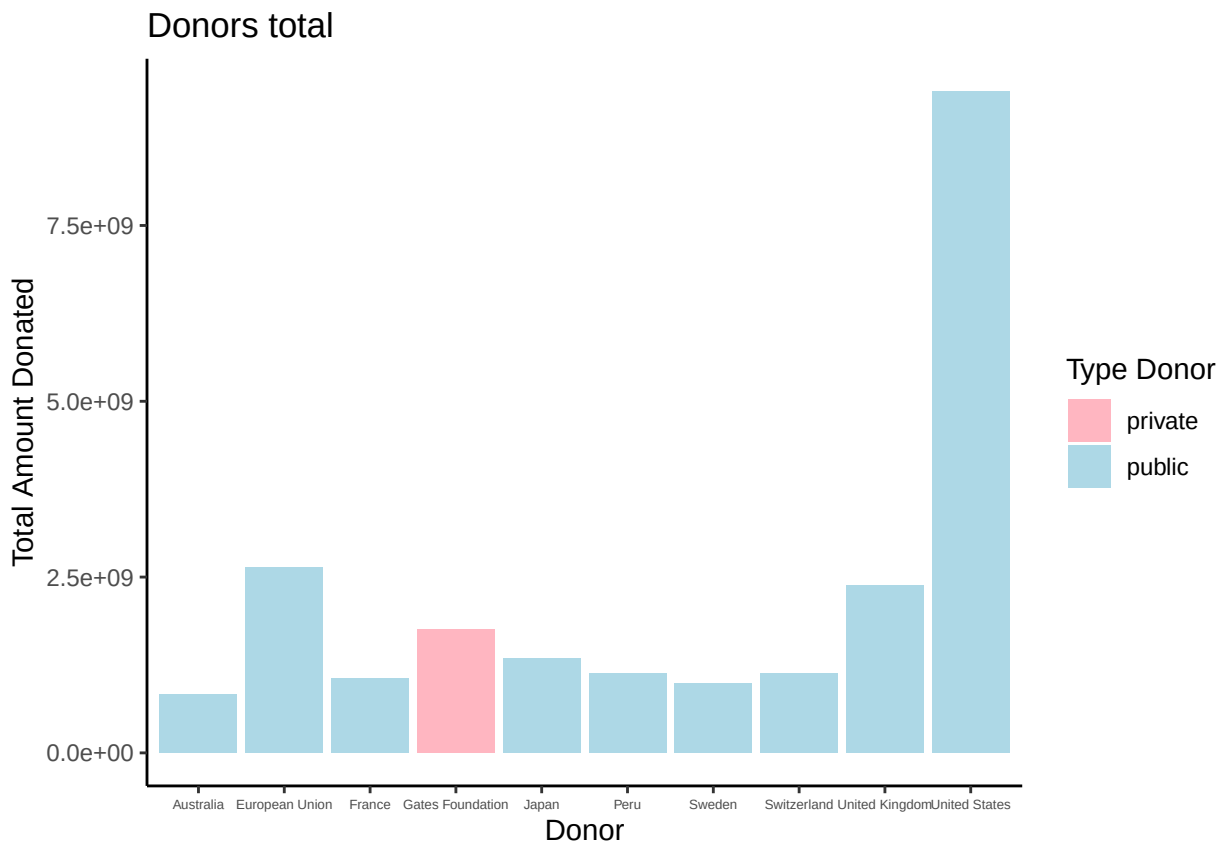
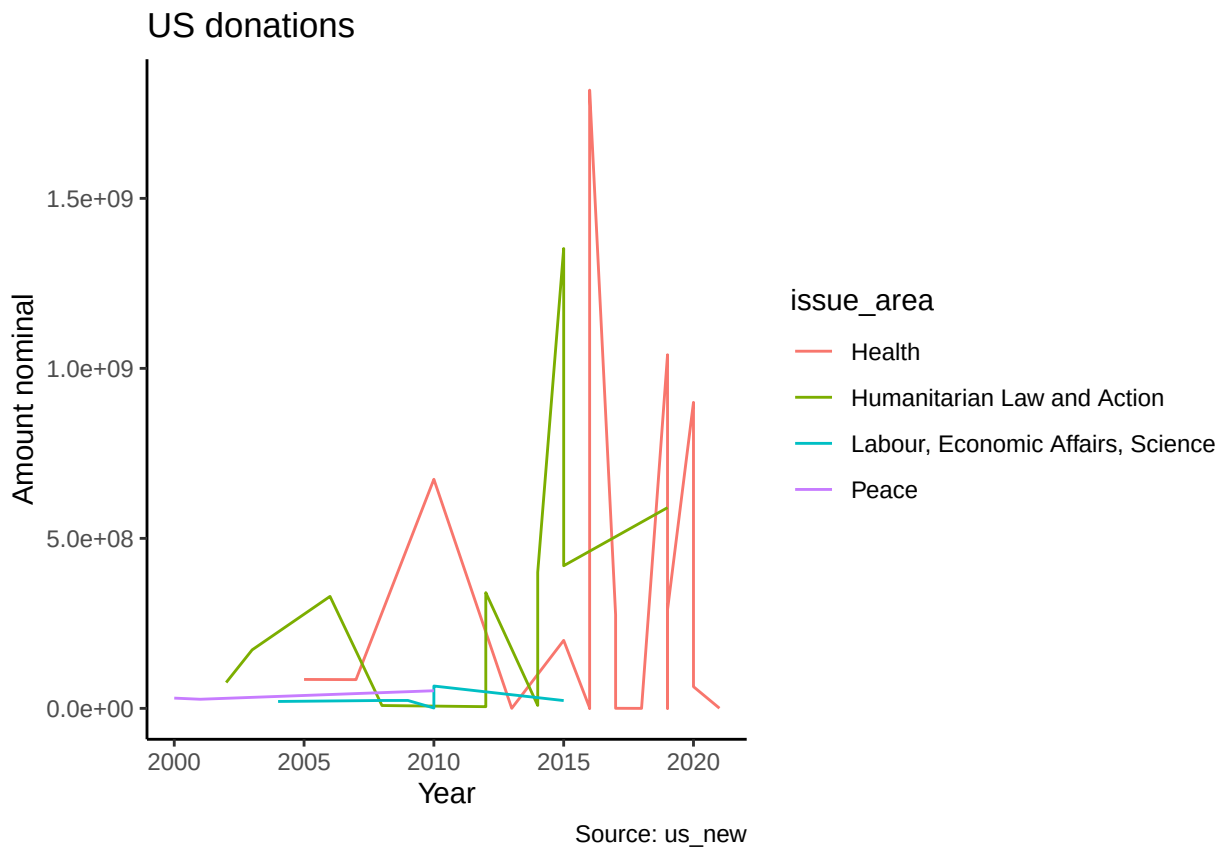
```r
#1
library(readr)
io_income <- read_csv("io_income.csv")

library (dplyr)
one <- io_income  %>%
  group_by (donor, type_donor) %>%
  summarise (amount_nominal = sum (amount_nominal)) %>%
  as.data.frame()
newone <- one %>% filter (!is.na(donor))  %>% slice_max(amount_nominal, n = 10)
library(ggplot2)
newone %>%
  filter(type_donor == "private" | type_donor == "public") %>%
  ggplot(aes(x = donor,
             y = amount_nominal,
             fill = as.factor(type_donor))) +
  geom_col(position = "dodge") +
  labs(title = "Donors total",
       x = "Donor",
       y = "Total Amount Donated",
       fill = "Type Donor") +
  scale_fill_manual(values = c("light pink", "light blue")) +
  theme_classic() +
    theme(axis.text.x = element_text(size = 5))
```

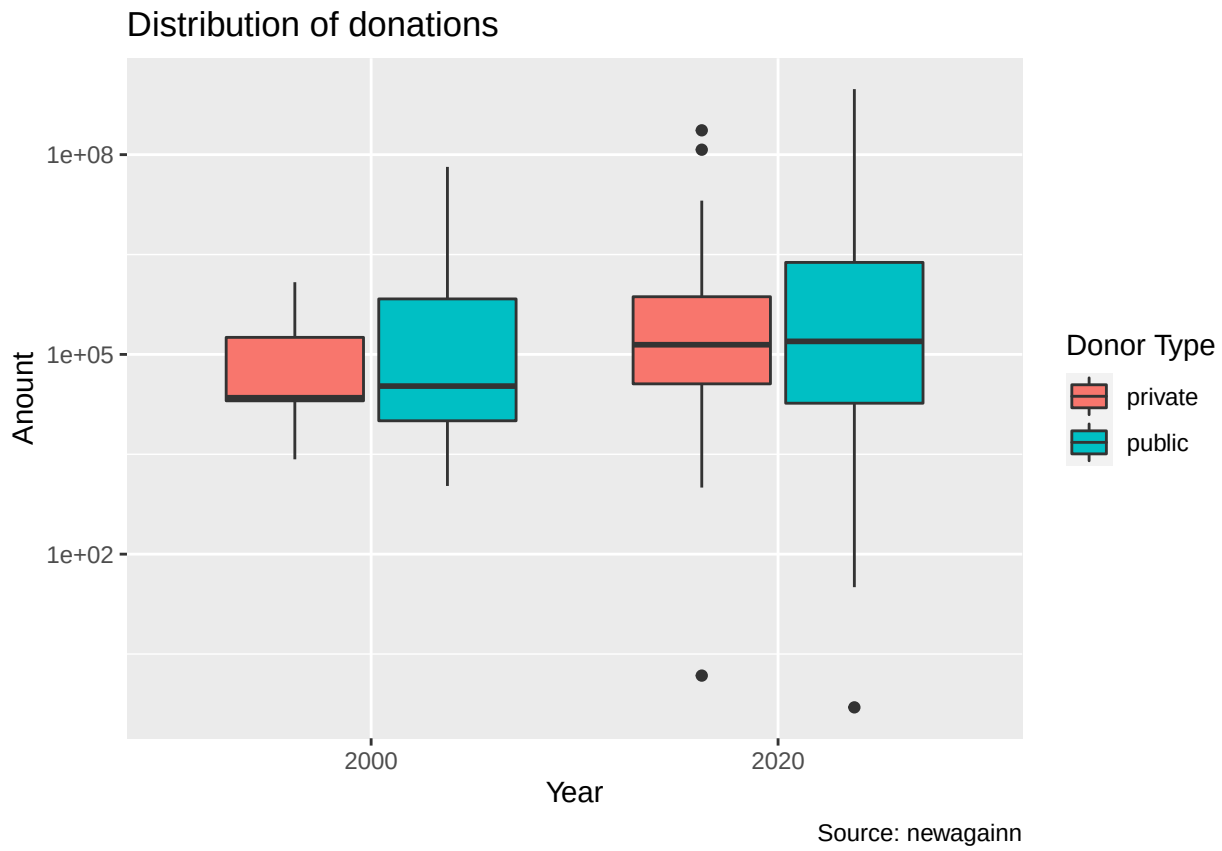


```
#2
library(readr)
us_table <- io_income %>% filter (donor== "United States")

us_new <- us_table %>%
  as.data.frame() %>%
  arrange(desc(year))
library (ggplot2)

us_new %>%
  ggplot(aes(x = year, y = amount_nominal, fill = issue_area, color = issue_area)) +
  geom_line() +
  labs(title = "US donations",
       x = "Year",
       y = "Amount nominal",
       fill = "Issue Area",
       caption = "Source: us_new") +
  theme_classic()
```




```
#3
library (dplyr)
library (tidyr)
newframe <- io_income  %>%
```

```
  group_by (donor, year, type_donor) %>%
  summarise (amount_nominal = sum (amount_nominal)) %>%
  as.data.frame()
newagainn <- filter(newframe,year == 2000 | year == 2020)
newagainn %>%
  filter(!is.na(type_donor)) %>%
  ggplot(aes(x = as.factor(year), y = amount_nominal, fill = type_donor)) +
   geom_boxplot() +
  scale_y_log10()+
  labs(title = "Distribution of donations",
       x = "Year",
       y = "Anount",
       fill = "Donor Type",
       caption = "Source: newagainn")
```




```
#4
io_income %>%
  filter(!is.na(type_donor))%>%
  filter(issue_area == "Peace" | issue_area == "Health" | issue_area == "Humanitarian Law and Action" |
  ggplot (aes(x = year, y = amount_nominal, shape = type_donor, color = type_donor)) +
  geom_point()+
  geom_smooth(se = FALSE, color = "red") +
  scale_y_log10()+
  facet_wrap(~issue_area)+
  labs(title = "Donations by Issue Areas",
```

```
      x = "Year",
      y = "Donations",
      fill = "Donor Type")
```