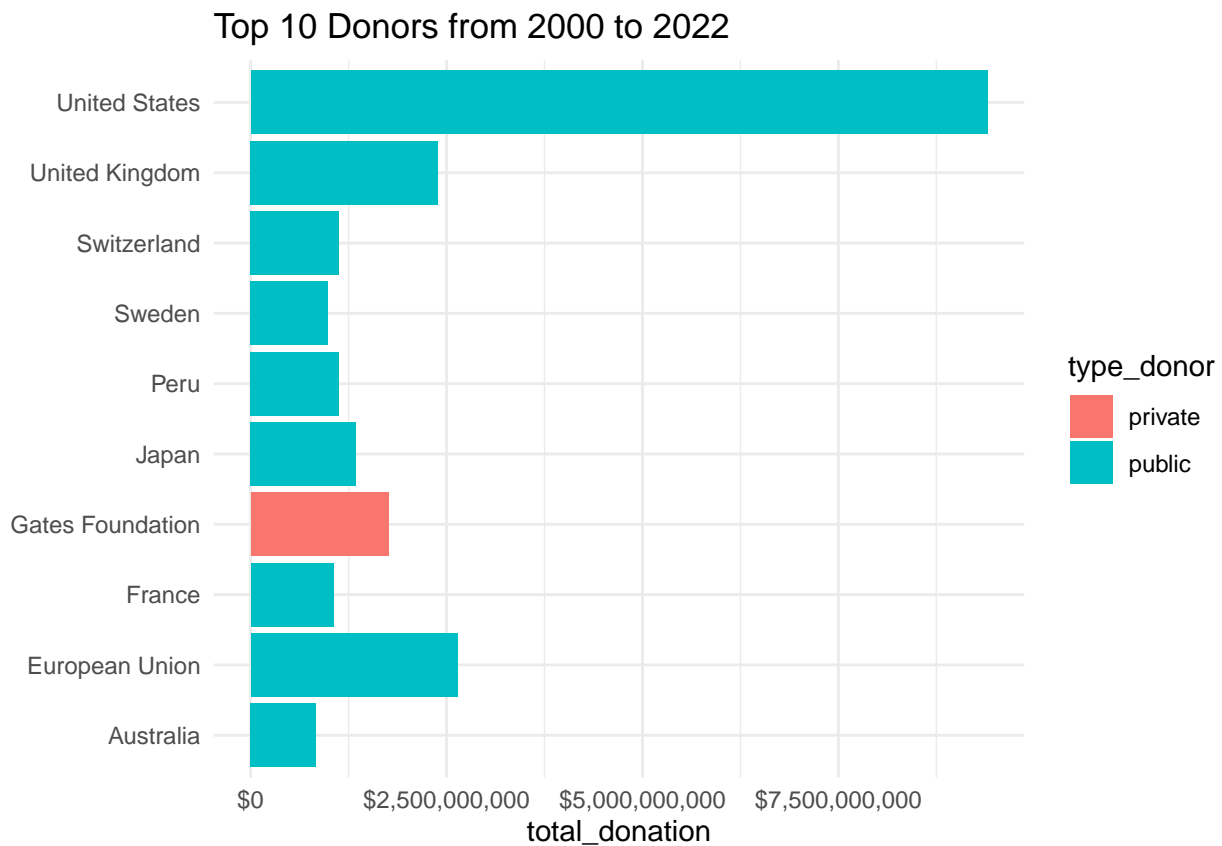


Homework Week 4

Julia Sokolowska

2022-10-19

#Question 1

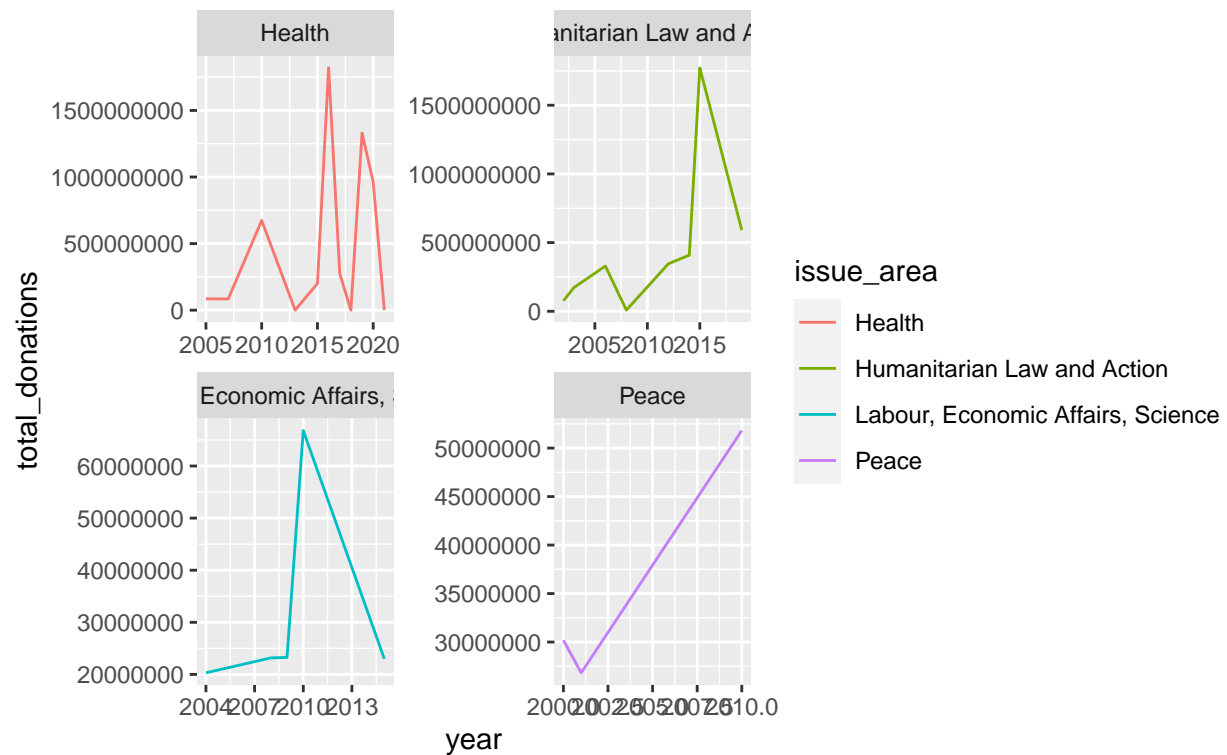


#Question 2

```
io_income_rs %>%
  filter(donor=="United States")%>%
  group_by(year, issue_area) %>%
  summarise(total_donations = sum(amount_nominal, na.rm = TRUE))%>%
  ggplot(mapping = aes(x=year, y=total_donations, color=issue_area))+
  geom_line()+
  labs(title = "Donations by the United States from 2000 to 2020",
        subtitle = "Scales of axis vary by facet")+
  facet_wrap(~issue_area, scales = "free")
```

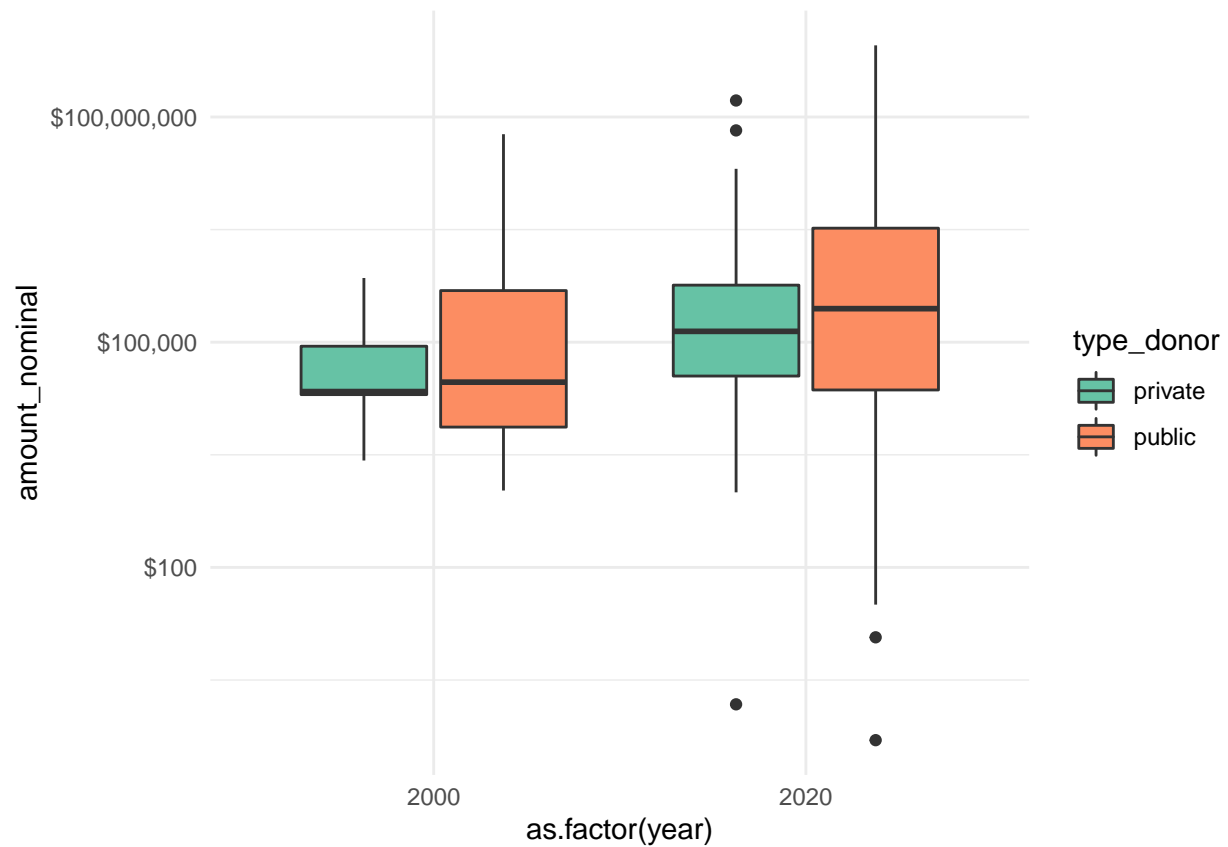
Donations by the United States from 2000 to 2020

Scales of axis vary by facet



#Question 3

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



#Question 4

```
io_income_rs %>%
  drop_na() %>%
  ggplot(mapping = aes(x=year, y=amount_nominal))+
  geom_point(aes(shape=type_donor), alpha=.5)+
  facet_wrap(~issue_area, scales = "free_y")+
  theme_minimal()+
  geom_smooth(method="lm", color="red")+
  scale_y_log10()
```

