Loading libraries

```
library(jsonlite)
library(tidyverse)
library(patchwork)
```

Reading Input json using jsonlite package

```
android <- jsonlite::fromJSON("MyActivity.json")</pre>
```

Glimpse of the dataframe

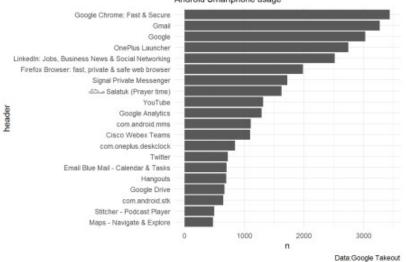
Data Preprocessing – Date Time

android\$time <- parse datetime(android\$time,locale = locale(tz =</pre>

Number of Unique Apps

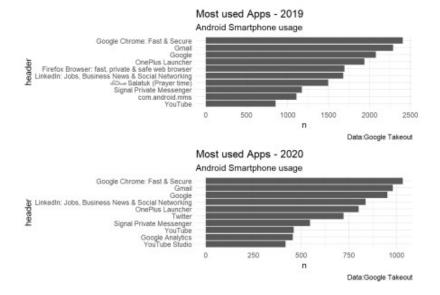
```
android_latest %>%
  count(header, sort = TRUE) %>%
  head(20) %>%
  mutate(header = fct_reorder(header, n)) %>%
  ggplot() + geom_col(aes(y = header, x = n)) +
  theme_minimal() +
  labs(title = "Most used Apps - Overall",
      subtitle = "Android Smartphone usage",
      caption = "Data:Google Takeout")
```

Most used Apps - Overall Android Smartphone usage



Apps Comparison

```
android latest %>%
  filter(year %in% '2019') %>%
  group by (year, header) %>%
  summarise(n = n()) %>%
  arrange(desc(n)) %>%
  head(10) %>% #View()
  mutate(header = fct reorder(header, n)) %>%
  ggplot() + geom_col(aes(y = header, x = n)) +
 # facet wrap(~year, scales = "free") +
  theme minimal() +
  labs(title = "Most used Apps - 2019",
       subtitle = "Android Smartphone usage",
       caption = "Data:Google Takeout") -> p2019
android latest %>%
  filter(year %in% '2020') %>%
  group_by(year, header) %>%
  summarise(n = n()) %>%
  arrange(desc(n)) %>%
  head(10) %>% #View()
  mutate(header = fct reorder(header, n)) %>%
  ggplot() + geom_col(aes(y = header, x = n)) +
 # facet wrap(~year, scales = "free") +
  theme minimal() +
  labs(title = "Most used Apps - 2020",
       subtitle = "Android Smartphone usage",
       caption = "Data:Google Takeout") -> p2020
p2019 / p2020
```



Usage Timeline

android_latest %>%

count(date) %>%
ggplot() + geom_line(aes(date,n))

