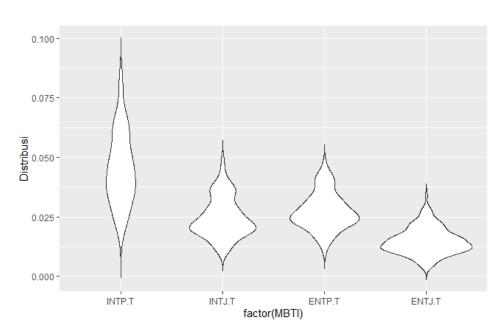
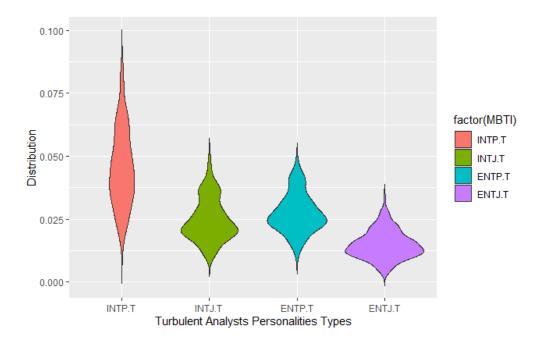
# Violin Plot of Turbulent Personalities Distribution

## Turbulent Analysts (INTJ, INTP, ENTP, ENTJ)

```
#Setting Work Directory
setwd('E:/AED/Tugas M10')
#Input Data
data=read.table('E:/AED/Tugas M10/countries.csv',header=TRUE,sep=',')
#Install Library ggplot2
library(ggplot2)
#Memilah dan menggabungkan data MBTI tipe Analysts (INTJ, INTP, ENTP, ENTJ) dengan function stack
df1 = stack(data[,c(13,22,25,27)])
#Menamai kolom dari dataframe di atas
colnames(df1) = c("Distribusi", "MBTI")
#Membuat baseline violin plot dan menampilkannya
analysts = ggplot(df1,aes(x=factor(MBTI),y=Distribusi))+geom_violin(trim=FALSE)
analysts
```



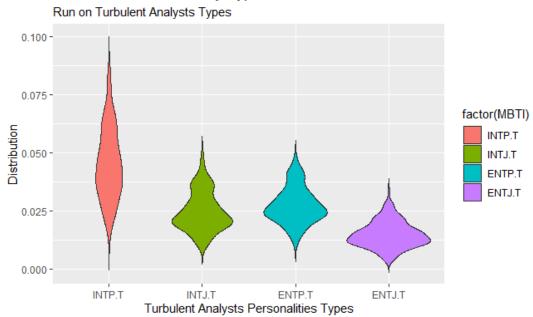
```
#Mengisi warna dari violin plot dan menambah legend
analysts = ggplot(df1,aes(x=factor(MBTI),y=Distribusi,fill=factor(MBTI)))+
  geom_violin(trim=FALSE)
analysts
```



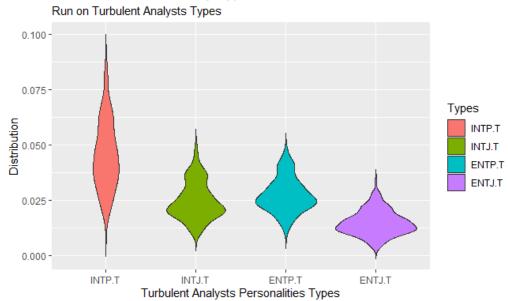
#### #Mengubah nama axis

analysts = ggplot(df1,aes(x=factor(MBTI),y=Distribusi,fill=factor(MBTI)))+
 geom\_violin(trim=FALSE) + labs(x="Turbulent Analysts Personalities Types",
y="Distribution")
analysts

## Distribution of Personality Types



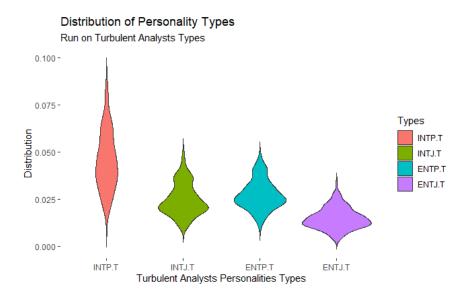
#### #Menambahkan judul dan takarir



#### #Mengubah judul pada legend

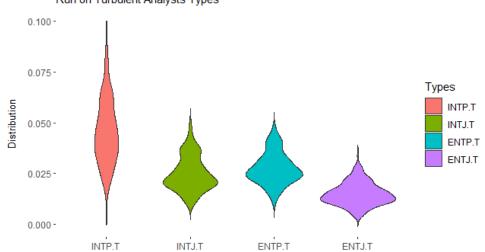
analysts

analysts



#### #Menghilangkan kotak background

### Distribution of Personality Types Run on Turbulent Analysts Types



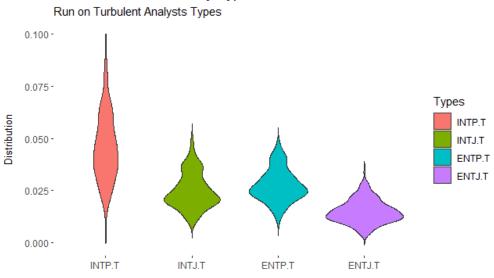
#### Turbulent Analysts Personalities Types

## #Mengatur margin x dan y axis

theme(rect=element\_blank(), axis.title.x = element\_text(margin=margin(b=5, t=10),
size=10),

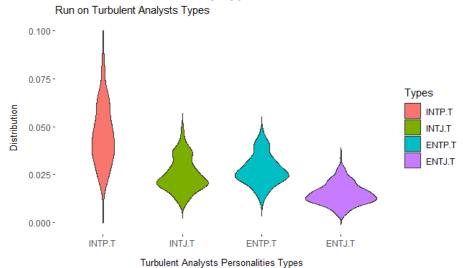
axis.title.y = element\_text(margin=margin(l=5, r=10), size=10))
analysts

#### Distribution of Personality Types

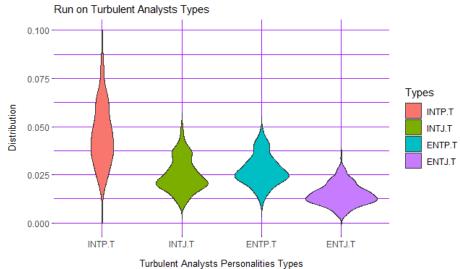


Turbulent Analysts Personalities Types

#### #Menebalkan Judul



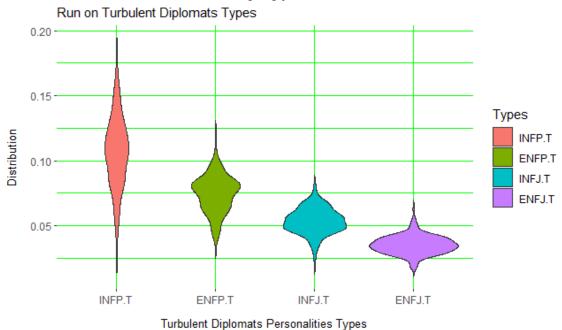
#### #Menambahkan Line pada background



# Turbulent Diplomats (INFP, ENFP, ENFJ, ENFJ)

Dengan syntax yang sama dengan sebelumnya

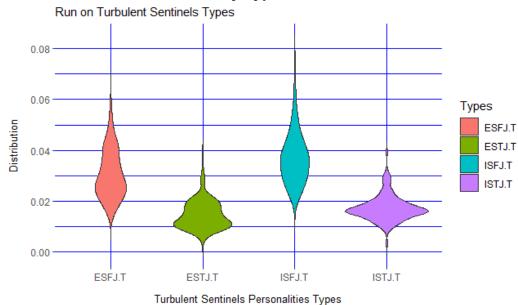
```
df2 = stack(data[,c(4,6,14,30)])
colnames(df2) = c("Distribusi", "MBTI")
```



## Turbulent Sentinels (ESFJ, ESTJ, ISFJ, ISTJ)

Dengan syntax yang sama dengan sebelumnya

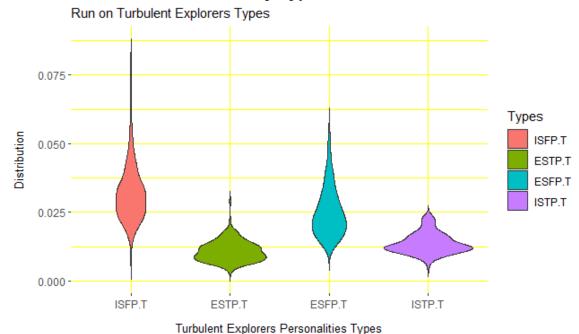
```
df3 = stack(data[,c(5,8,9,18)])
colnames(df3) = c("Distribusi", "MBTI")
```



# Turbulent Explorers (ISFP, ESTP, ESFP, ISTP)

Dengan syntax yang sama dengan sebelumnya

```
df4 = stack(data[,c(15,17,19,26)])
colnames(df4) = c("Distribusi", "MBTI")
```



## All Turbulent Personality

Dengan syntax yang sama dengan sebelumnya

all=rbind(df1,df2,df3,df4)

