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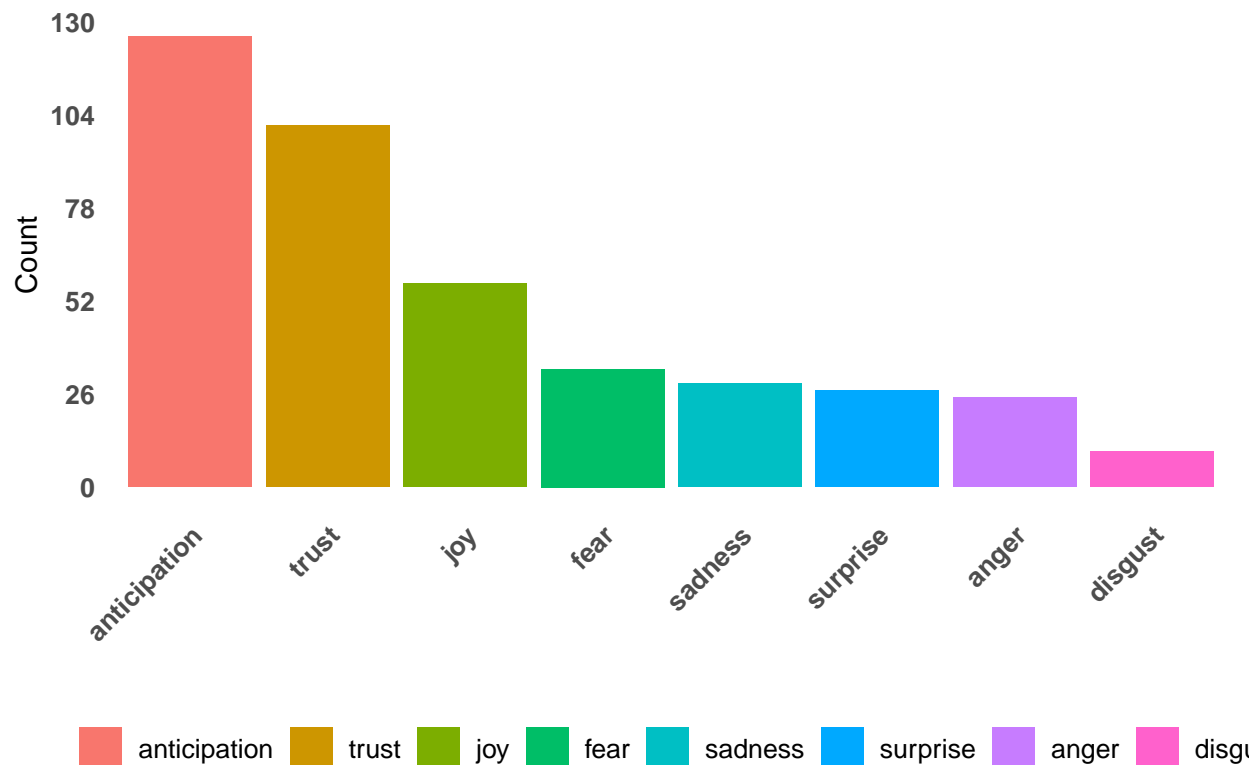
ylim= round_any(max(td_new2$count), 10,f = ceiling)

legend_order=levels(reorder(td_new2$sentiment, -td_new2$count))

barplot<-ggplot(data = td_new2, aes(x = reorder(sentiment, -count), y = count)) +
  geom_bar(aes(fill = sentiment), stat = "identity", position = "dodge")+
  theme_minimal() +
  scale_y_continuous(breaks = seq(0, ylim, by = 26),
                    limits = c(0, ylim)) +
  theme(
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    plot.title = element_text(hjust = 0.5),
    axis.text.x = element_text(
      face = "bold",
      size = 10 ,
      angle = 45,
      hjust = 1
    ),
    axis.text.y = element_text(face = "bold", size = 10),
    legend.position = "bottom",
    legend.title = element_blank(),
    legend.text = element_text(size = 10),
  ) + labs(x = "", y = "Count", title = "Sentiment analysis on proposal deadlines") +
  guides(fill = guide_legend(nrow = 1)) +
  # scale_fill_discrete(limits = c("anticipation", "trust", "joy", "fear", "sadness", "surprise", "ang
  scale_fill_discrete(limits = legend_order[1:8])
barplot

```

## Sentiment analysis on proposal deadlines



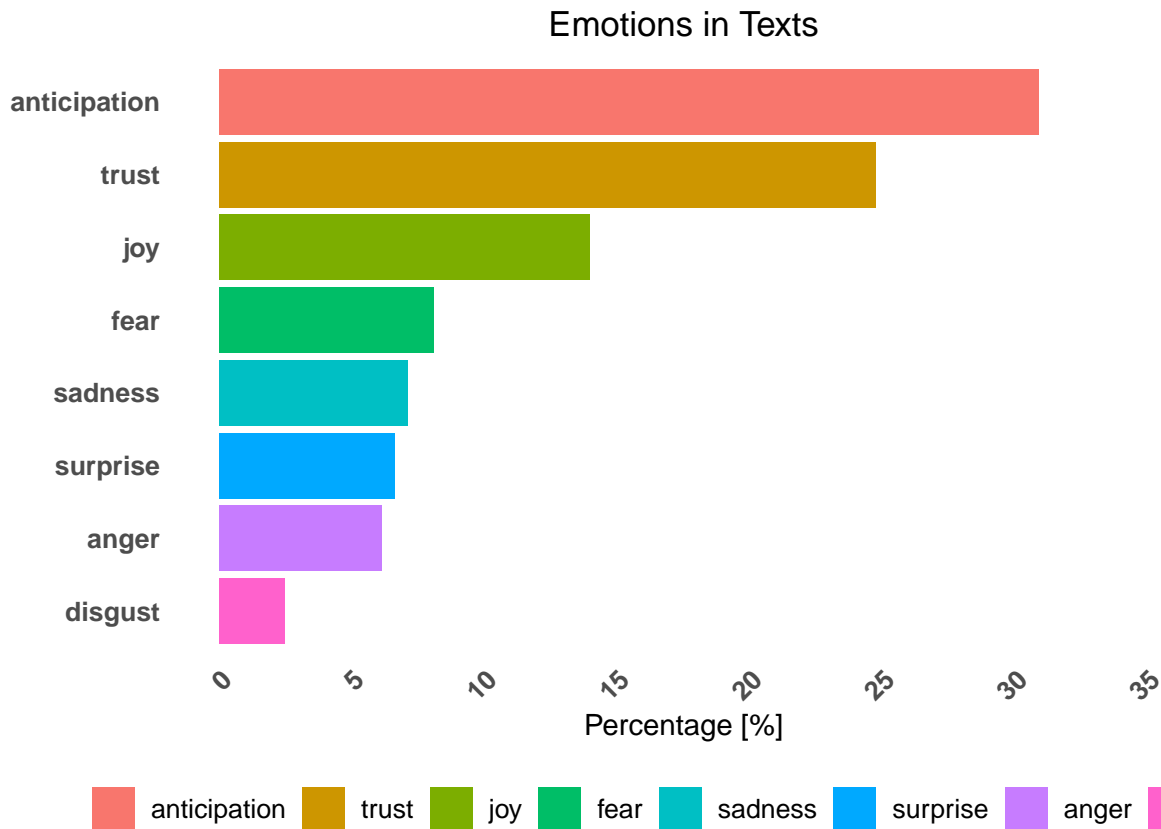
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Data_Frame=as.data.frame(sort(colSums(prop.table(d[, 1:8]))))
Data_Frame$emotions=row.names(Data_Frame)
colnames(Data_Frame)=c("Percentage", "Emotions")
Data_Frame$Percentage=Data_Frame$Percentage*100

plot <-
  ggplot(Data_Frame, aes(x = reorder(Emotions, Percentage), y = Percentage)) +
  geom_bar(aes(fill = Emotions), stat = "identity", position = "dodge") +
  theme_minimal() +
  labs(x = "", y = "Percentage [%]", title = "Emotions in Texts") +
  scale_y_continuous(breaks = seq(0, 35, by = 5),
                     limits = c(0, 35)) +
  theme(
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    plot.title = element_text(hjust = 0.5),
    axis.text.x = element_text(
      face = "bold",
      size = 10,
      angle = 45,
      hjust = 1
    ),
  ),
  axis.text.y = element_text(face = "bold", size = 10),
  legend.position = "bottom",
  legend.title = element_blank(),
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    legend.text = element_text(size = 10)
  )+coord_flip()+
  guides(fill = guide_legend(nrow = 1))+
  scale_fill_discrete(limits = legend_order[1:8])
plot

```



```

plots_Proposal=ggarrange(barplot,plot, nrow = 2, ncol = 1, common.legend = TRUE,legend="bottom")
filename<-"Sntiment_proposal.pdf"
full_path<-file.path(plot_dir, filename)
ggsave(full_path, plots_Proposal, width = 8.5, height = 11, units = "in")

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ylimite= round_any(max(td_new2$count), 10,f = ceiling)

legend_order=levels(reorder(td_new2$sentiment, -td_new2$count))

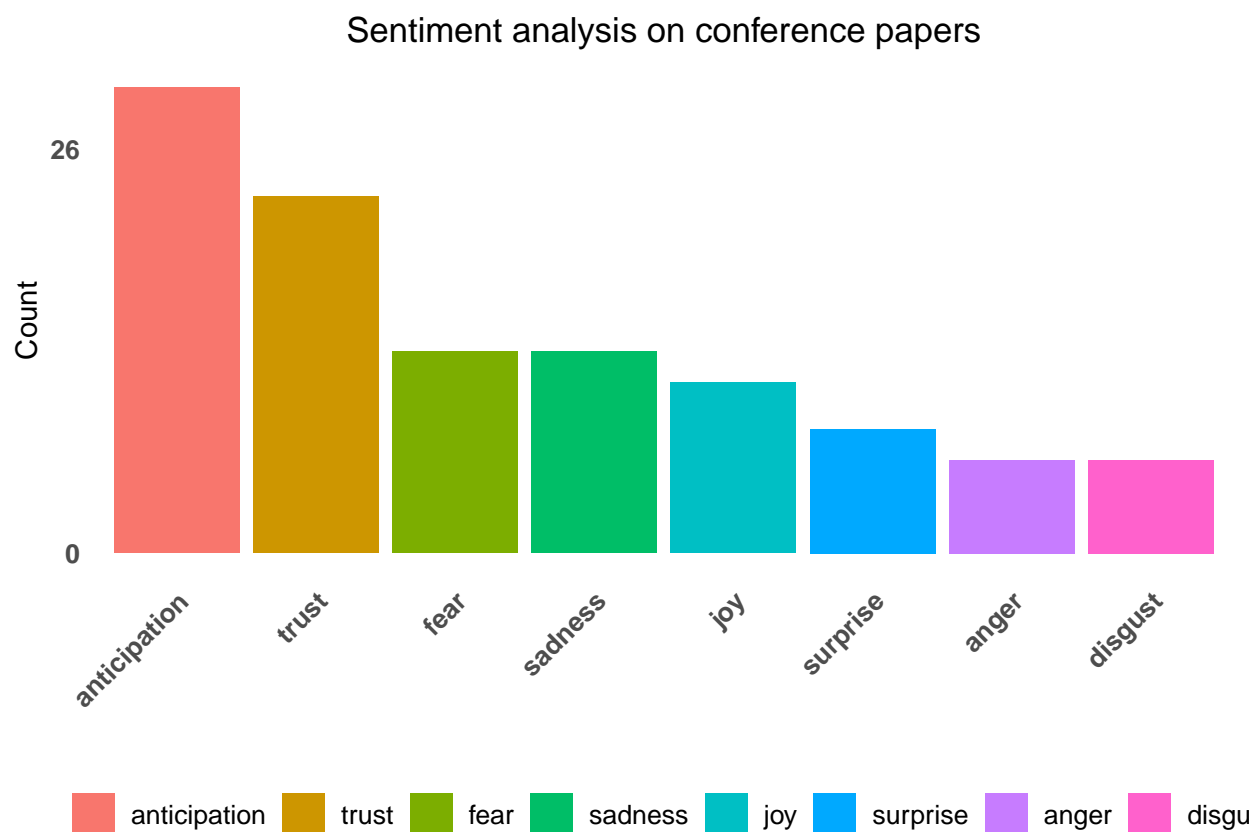
barplot<-ggplot(data = td_new2, aes(x = reorder(sentiment, -count), y = count)) +
  geom_bar(aes(fill = sentiment), stat = "identity", position = "dodge")+
  theme_minimal() +
  scale_y_continuous(breaks = seq(0, ylimite, by = 26),
                    limits = c(0, ylimite)) +
  theme(
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    plot.title = element_text(hjust = 0.5),
    axis.text.x = element_text(

```

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    face = "bold",
    size = 10 ,
    angle = 45,
    hjust = 1
  ),
  axis.text.y = element_text(face = "bold", size = 10),
  legend.position = "bottom",
  legend.title = element_blank(),
  legend.text = element_text(size = 10),
)+labs(x = "", y = "Count", title = "Sentiment analysis on conference papers") +
guides(fill = guide_legend(nrow = 1))+
# scale_fill_discrete(limits = c("anticipation", "trust", "joy", "fear", "sadness", "surprise", "ang
scale_fill_discrete(limits = legend_order[1:8])
barplot

```



```

Data_Frame=as.data.frame(sort(colSums(prop.table(d[, 1:8]))))
Data_Frame$emotions=row.names(Data_Frame)
colnames(Data_Frame)=c("Percentage", "Emotions")
Data_Frame$Percentage=Data_Frame$Percentage*100

plot <-
  ggplot(Data_Frame, aes(x = reorder(Emotions, Percentage), y = Percentage)) +
  geom_bar(aes(fill = Emotions), stat = "identity", position = "dodge") +
  theme_minimal() +

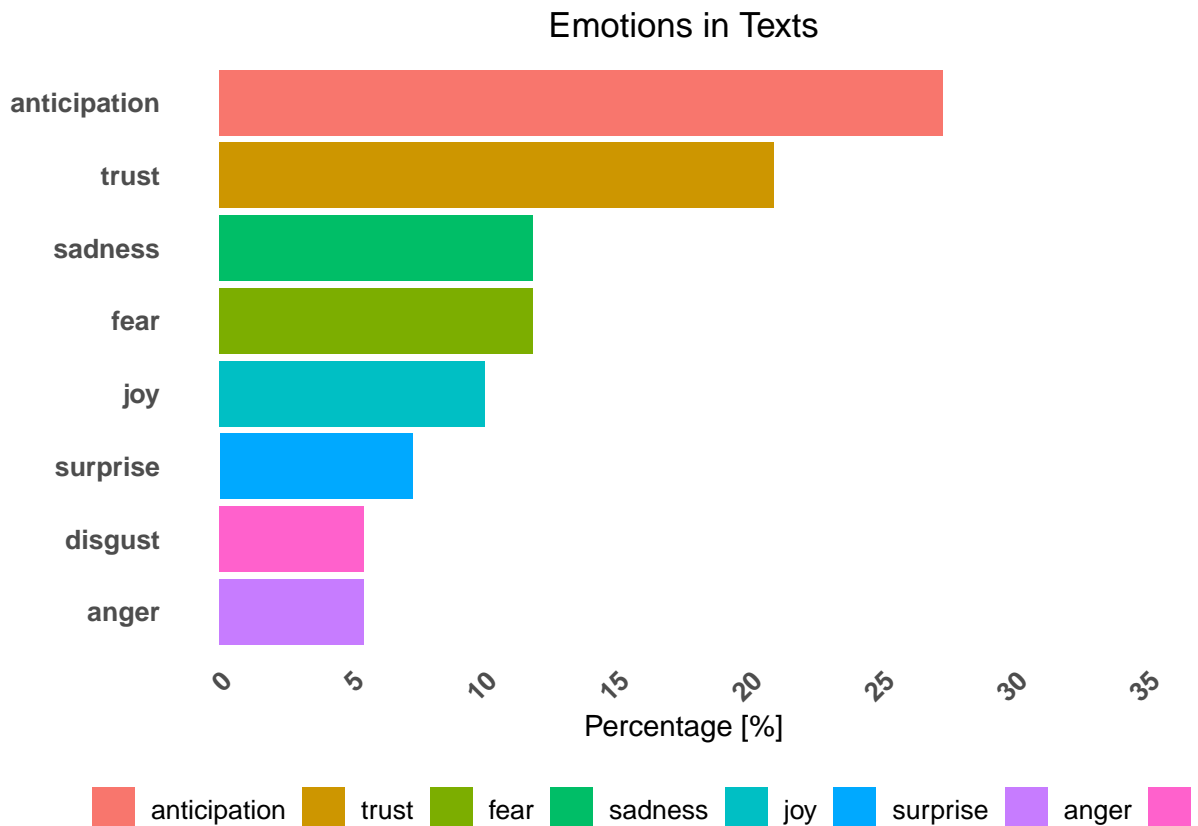
```

```

labs(x = "", y = "Percentage [%]", title = "Emotions in Texts") +
scale_y_continuous(breaks = seq(0, 35, by = 5),
                    limits = c(0, 35)) +

theme(
  panel.grid.major = element_blank(),
  panel.grid.minor = element_blank(),
  plot.title = element_text(hjust = 0.5),
  axis.text.x = element_text(
    face = "bold",
    size = 10,
    angle = 45,
    hjust = 1
  ),
  axis.text.y = element_text(face = "bold", size = 10),
  legend.position = "bottom",
  legend.title = element_blank(),
  legend.text = element_text(size = 10)
)+coord_flip()+
guides(fill = guide_legend(nrow = 1))+
scale_fill_discrete(limits = legend_order[1:8])
plot

```



```

plots_Proposal=ggarrange(barplot,plot, nrow = 2, ncol = 1, common.legend = TRUE,legend="bottom")
filename<-"Sntiment_conf_paper.pdf"
full_path<-file.path(plot_dir, filename)

```

```
ggsave(full_path, plots_Proposal, width = 8.5, height = 11, units = "in")
```