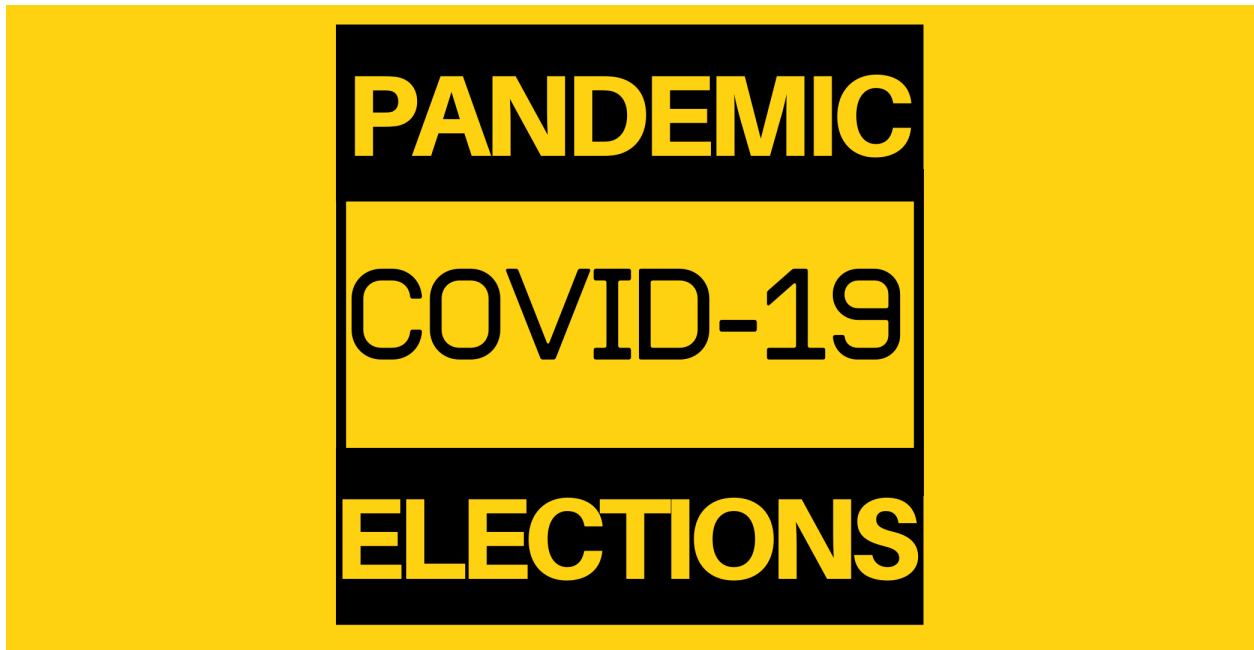


IF TRUMP COPEd WITH COVID-19 SUCCESSFULLY, WOULD HE WIN THE ELECTION?(job approve rating)

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Back in February of 2020, the world situation is completely different. At that time, the unemployment rate in the United States was the lowest in decades, the stock market repeatedly hit record highs, and the situation of President Trump's re-election was very good. However, the COVID-19 pandemic changed this situation dramatically. Many people say that Trump's response to Coronavirus is one of the main reason he failed in the election. Is that true? This report is based on the ANES 2020 Exploratory Testing Survey conducted between April 10, 2020 and April 18, 2020. For more information, please visit <https://electionstudies.org/data-center/2020-exploratory-testing-survey/>

Question 1: Is Trump's policy cope with Covid-19 is an important reason why people disapprove his job?

The questionare have two Form in the Trump Job Approval category.

[IF FORM = 1]

[covidpres7] Do you approve, disapprove, or neither approve nor disapprove of the way Donald Trump is handling the **coronavirus (COVID-19) outbreak**?

- _ Approve extremely strongly [1]
- _ Approve moderately strongly [2]
- _ Approve slightly [3]
- _ Neither approve nor disapprove [4]
- _ Disapprove slightly [5]
- _ Disapprove moderately strongly [6]
- _ Disapprove extremely strongly [7]

[IF FORM = 2]

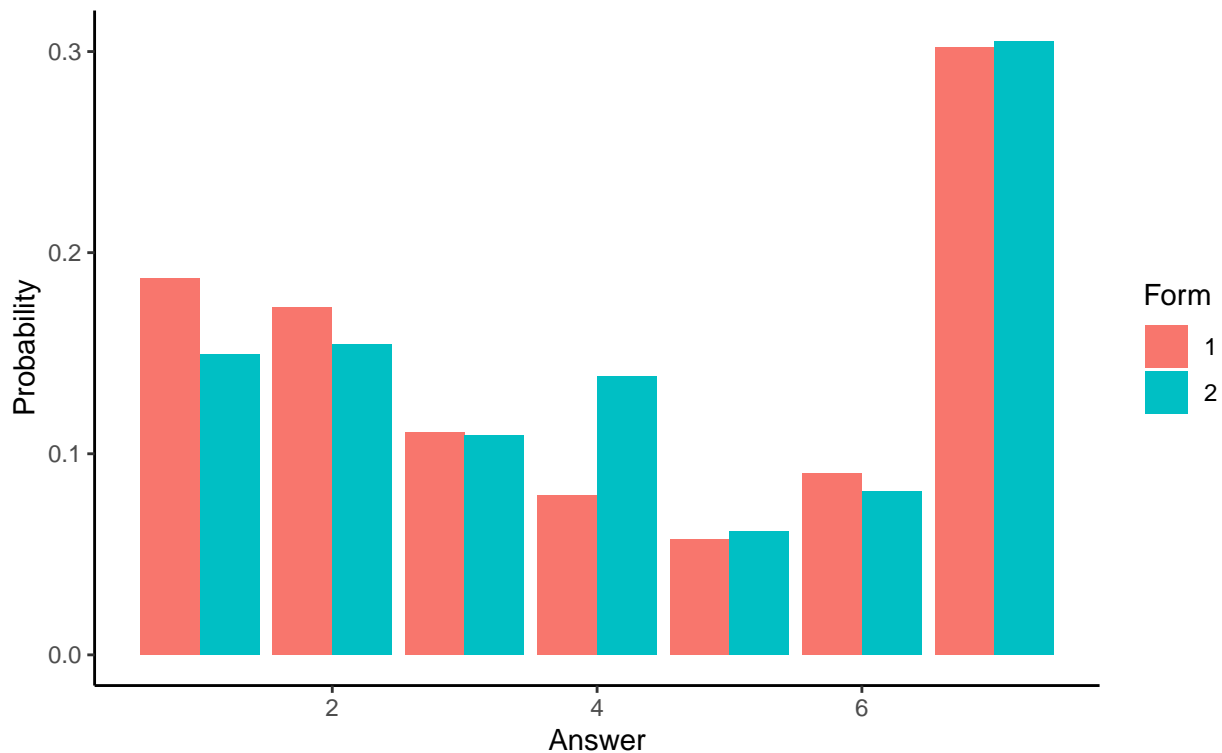
[healthcarepres7] Do you approve, disapprove, or neither approve nor disapprove of the way Donald Trump is handling **health care**?

- _ Approve extremely strongly [1]
- _ Approve moderately strongly [2]
- _ Approve slightly [3]
- _ Neither approve nor disapprove [4]
- _ Disapprove slightly [5]
- _ Disapprove moderately strongly [6]
- _ Disapprove extremely strongly [7]

Should health care and coronavirus(COVID-19) be merged as one variable? Let's see the distribution of people's answers in terms of this question.

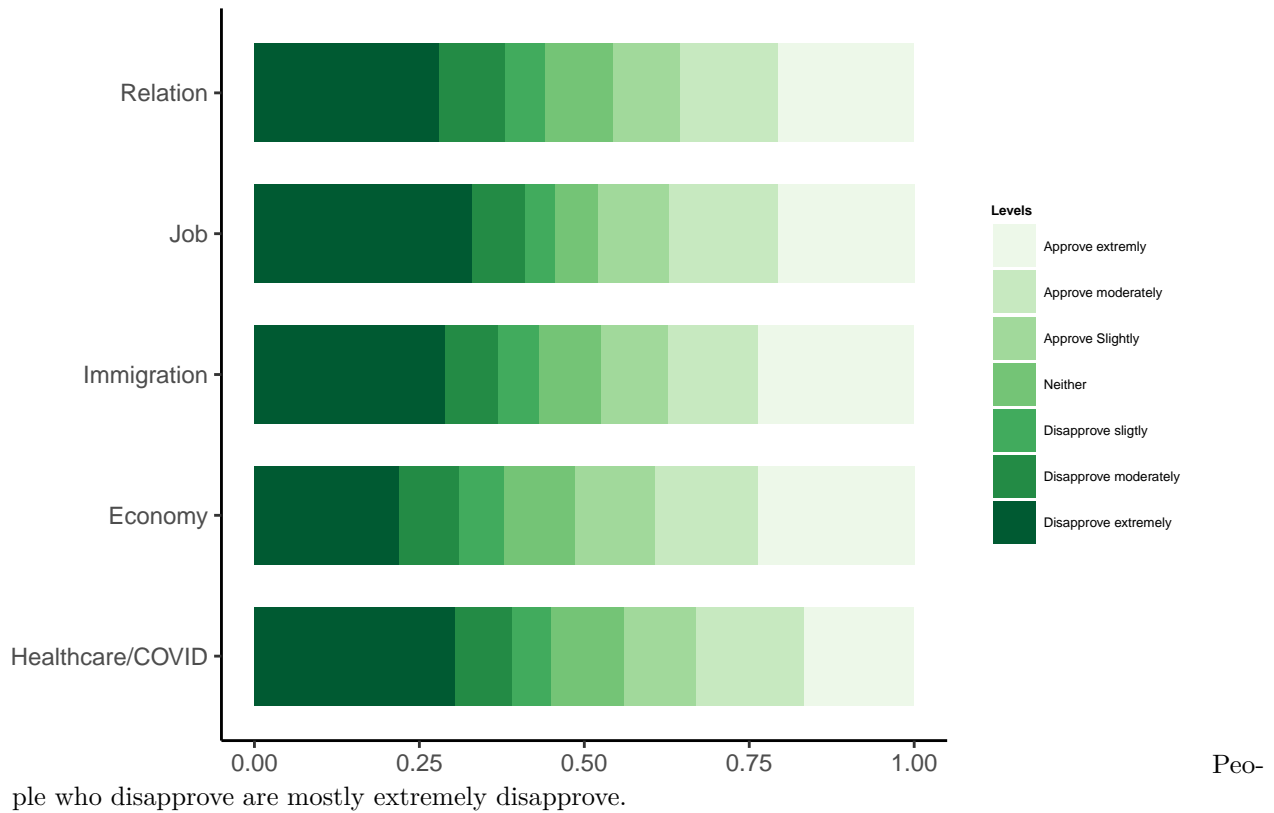
Distribution of answers of two forms of questions

Form=1:COVID-19 Form=2: health care

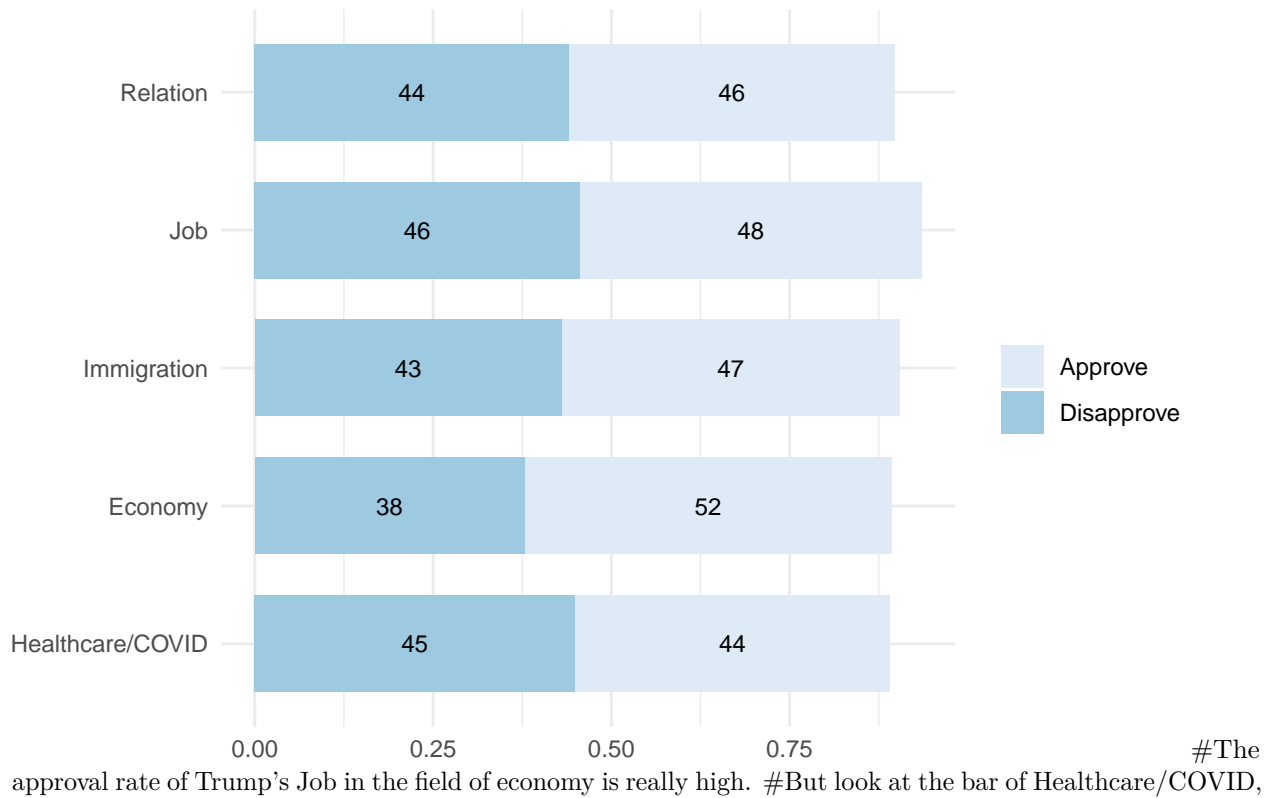


From the plot, people are more likely to hold an approval attitude towards Trump's job handling COVID-19 than health care. Overall, difference is not big, except for the case that answer is "Neither approve or Disapprove".

Trump's Job approval in seven levels



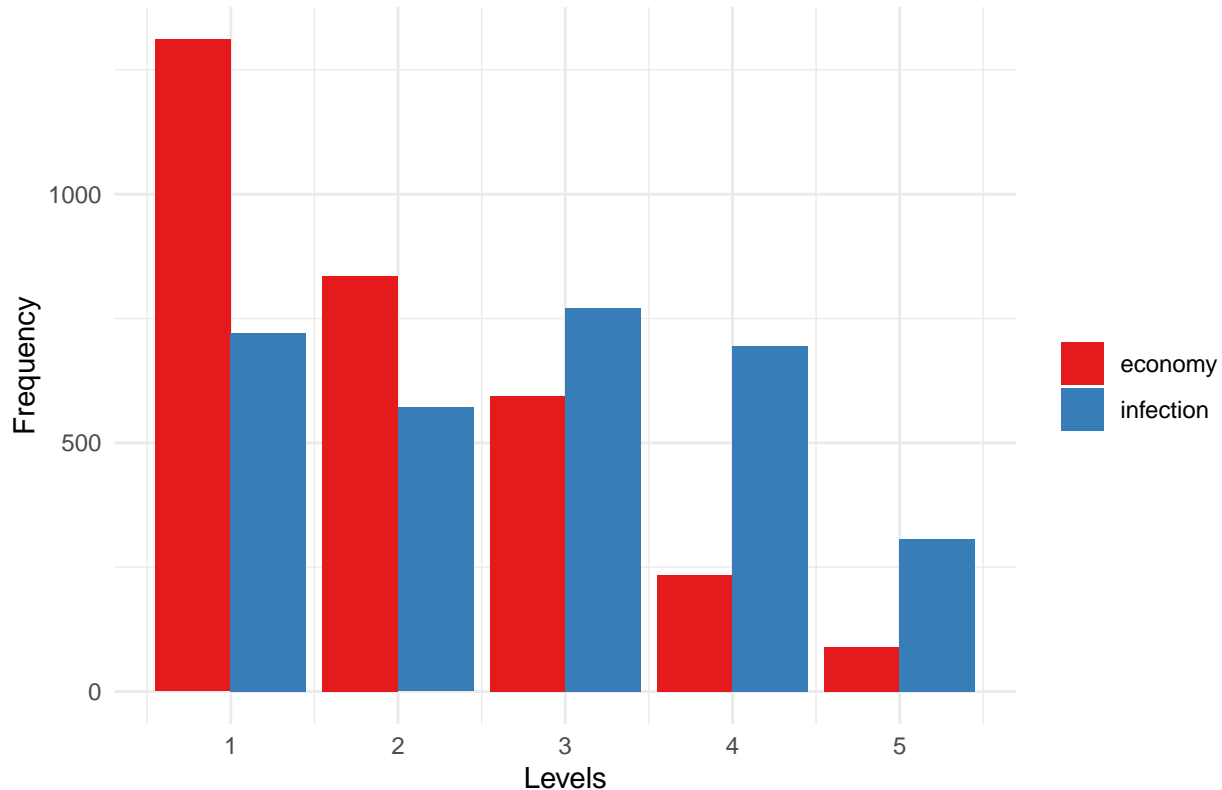
Trump Job Approval in two levels



the difference actually really small.

##Question 2: If the economy quickly declines as one of the common effects of the pandemic, will the disapproval ratio in the COVID/HEALTHCARE increase?

Are people more worried about infection or economic lose of COVID-19?



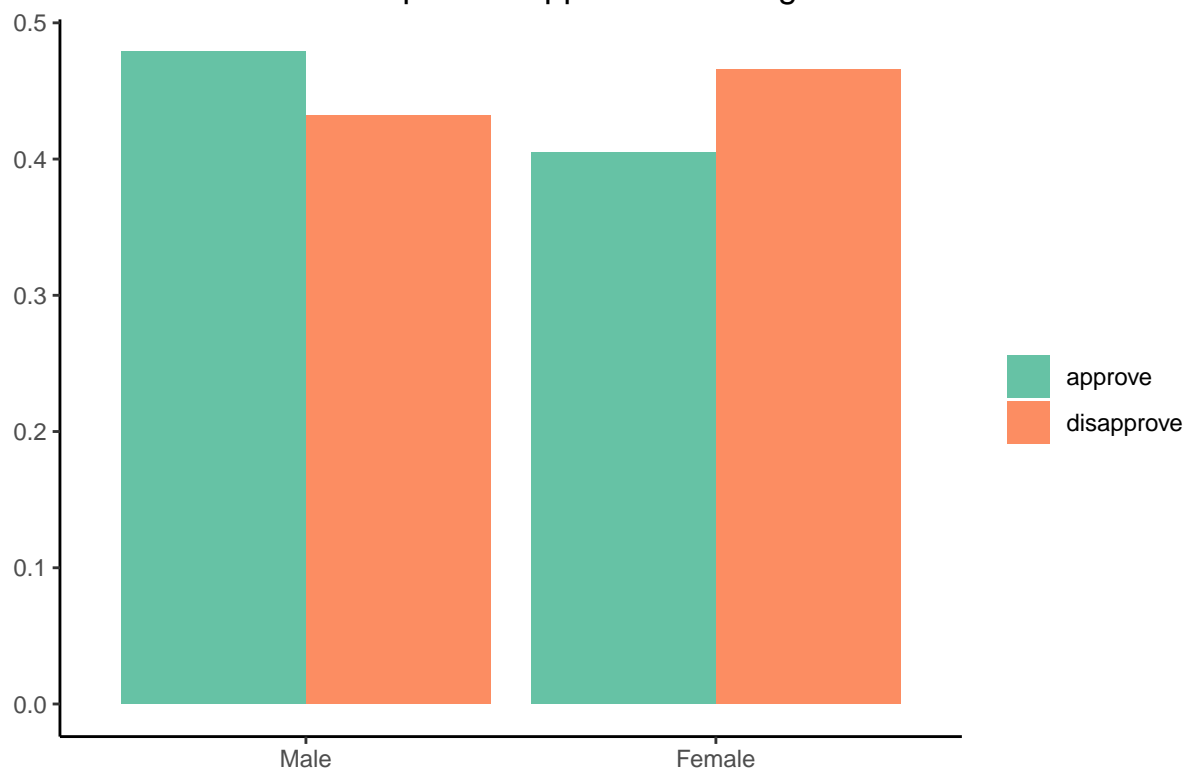
#People are more concerned about the economy decline as an important effect of pandemic. #It is possible if the outbreak of COVID-19 can't get controlled, TRUMP's disapproval rate will be increasing at least in the economy and healthcare fields.

##Question 3: Gender, Age, Education difference in Trump's Job Approval handling COVID-19.

```
#sex: 1 male 2 female
g_sex<-g%>%
  select(sex,attitude)%>%
  group_by(sex)%>%
  count(attitude)%>%
  mutate(prop=n/sum(n))%>%
  ungroup%>%
  filter(!attitude %in% "neither")

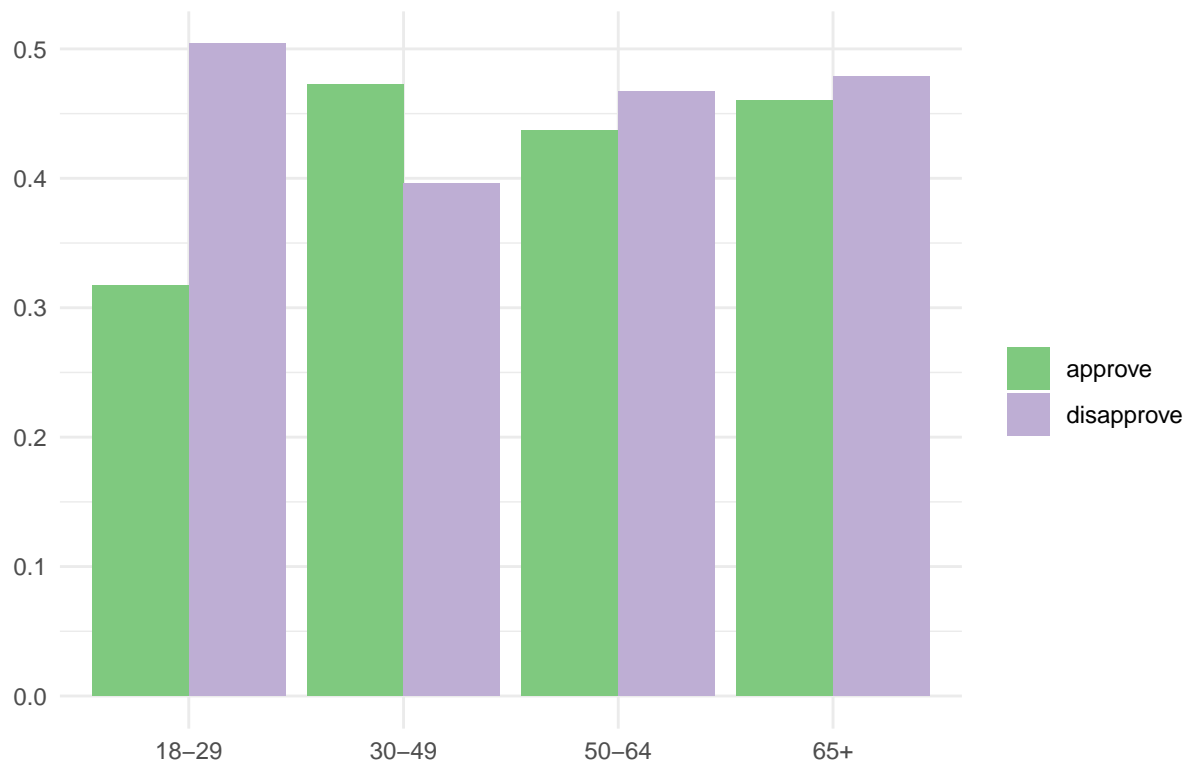
ggplot(g_sex,aes(factor(sex),prop,fill=attitude)) +
  geom_col(position="dodge")+
  theme_classic()+
  scale_x_discrete(labels=c("1"="Male","2"="Female"))+
  scale_fill_brewer(type="qual",palette ="Set2",name="",labels=c("approve","disapprove"))+
  labs(title="Sex difference in Trump's Job Approval handling COVID-19",x="",y="")
```

Sex difference in Trump's Job Approval handling COVID-19



```
#age
g_age<-g%>%
  select(Age,attitude)%>%
  group_by(Age)%>%
  count(attitude)%>%
  mutate(prop=n/sum(n))%>%
  ungroup%>%
  filter(!attitude %in% "neither")
ggplot(g_age,aes(Age,prop,fill=factor(attitude))) +
  geom_col(position="dodge")+
  theme_minimal()+
  scale_fill_brewer(type="qual",palette ="Accent",name="")+
  labs(title="Age difference in Trump's Job Approval handling COVID-19",x="",y="")
```

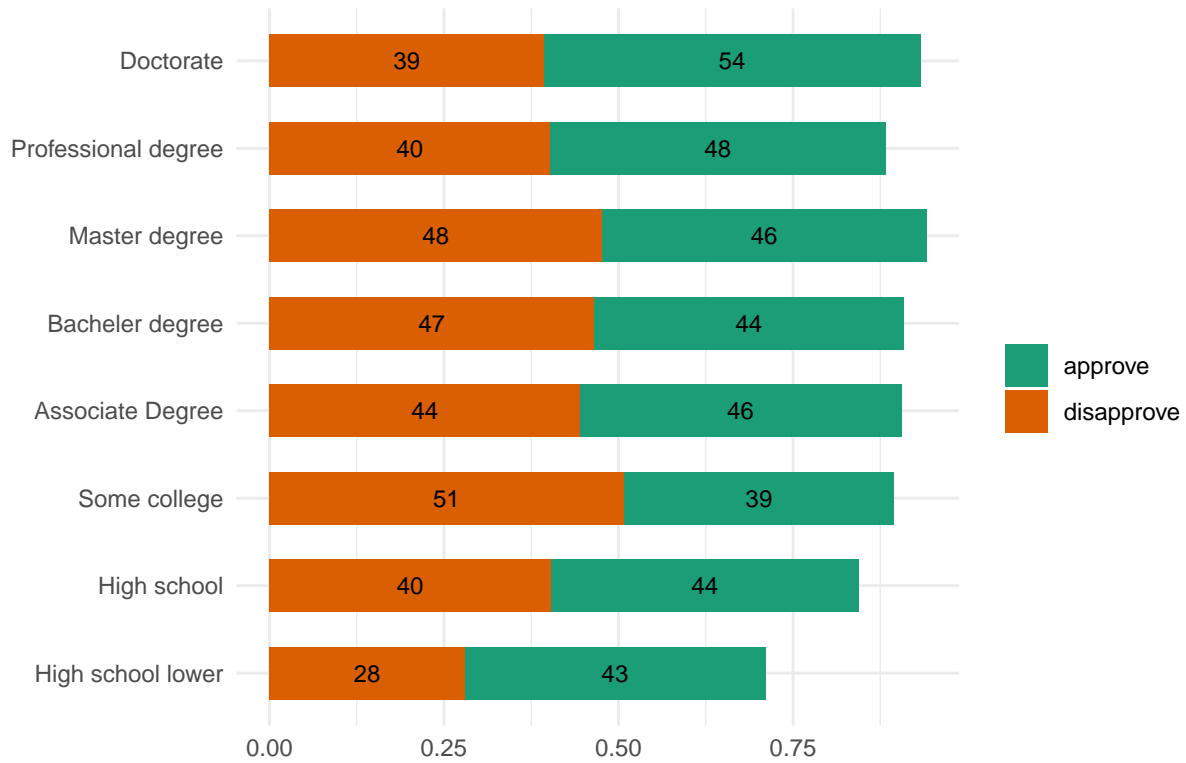
Age difference in Trump's Job Approval handling COVID-19



```
# education
g_edu<-g%>%
  select(educ,attitude)%>%
  group_by(educ)%>%
  count(attitude)%>%
  mutate(prop=n/sum(n))%>%
  ungroup%>%
  filter(!attitude %in% "neither")

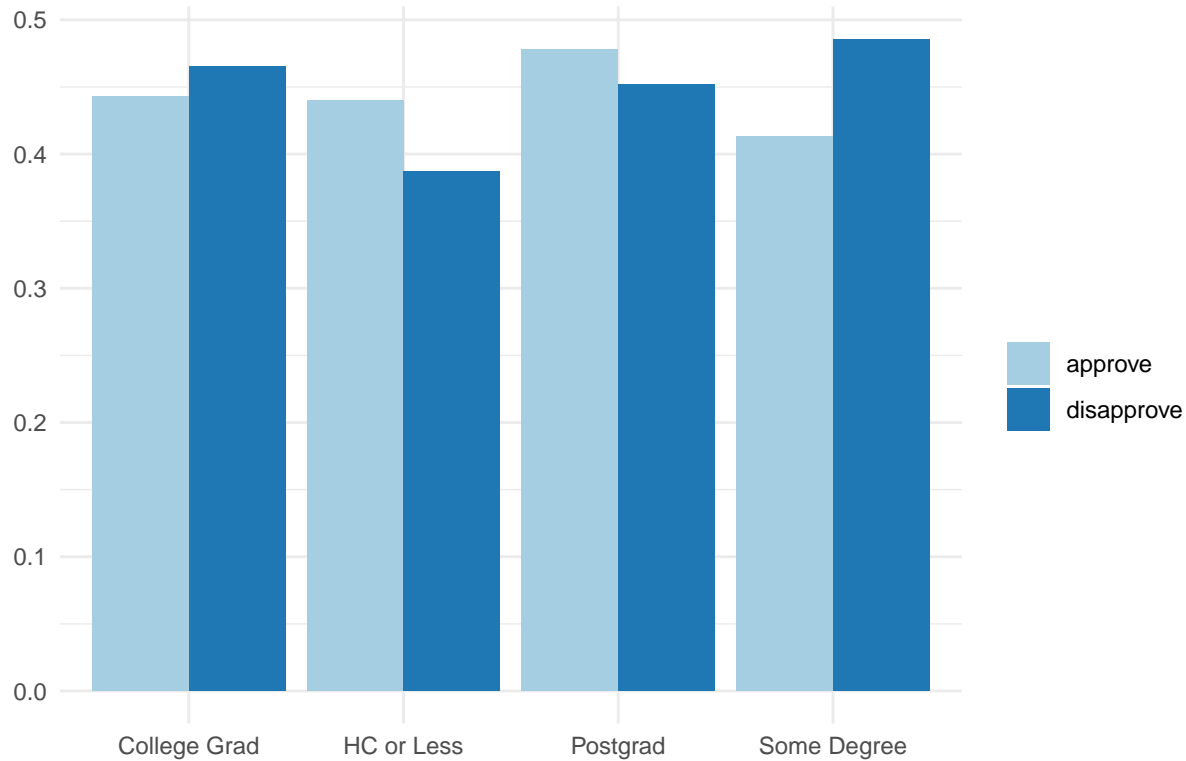
ggplot(g_edu,aes(factor(educ),prop,fill=factor(attitude),label=signif(prop*100,2))) +
  geom_col(position="stack",width=0.6)+
  theme_minimal()+
  scale_x_discrete(name="",labels=c("High school lower","High school","Some college","Associate Degree"))+
  scale_fill_brewer(type="qual",palette ="Dark2",name="")+
  geom_text(size = 3, position = position_stack(vjust = 0.5)) +
  coord_flip()+
  labs(title="Education difference in Trump's Job Approval handling COVID-19",x="",y="")
```

Education difference in Trump's Job Approval handling COVID–



```
g_ed<-g%>%
  select(edu_degree,attitude)%>%
  group_by(edu_degree)%>%
  count(attitude)%>%
  mutate(prop=n/sum(n))%>%
  ungroup%>%
  filter(!attitude %in% "neither")
ggplot(g_ed,aes(edu_degree,prop,fill=factor(attitude))) +
  geom_col(position="dodge")+
  theme_minimal()+
  scale_fill_brewer(type="qual",palette ="Paired",name="")+
  labs(title="Education difference in Trump's Job Approval handling COVID-19",x="",y="")
```

Education difference in Trump's Job Approval handling COVID-19



this is suprsing

##Conclusion 1. In April 2020, Trump's job approval actually is not as bad now. The outbreak of COVID-19 hasn't make people to be very disappointed with Trump. On th other side, Trump eared some supports in the approval rating because of economic growth.

2.Compared with the potential danger of getting infected, people are more concerned about economic impact of the coronavirus. It is possible if the outbreak of COVID-19 can't get controlled, Trump's disapproval rate will be increasing at least in the economy and health care fields.

3. In terms of gender, age and education level, female groups are more likely to disapprove; the majority of people who is between 18-29 are more concerned about it, maybe the use of social media. For the education difference, the sign is not that obvious. But people in the group with some degree or above tend to at least have more disapproval opinion compared with lower educational level.