## Calculate Frequency of Citations in R

## YIN YI 4/11/2019

## Calculate the most frequency of cited citation

```
cites<-ref_test%>%select(file_name, citations)%>%
    mutate(citations = gsub("\\[|\\]", "", citations))%>%
    splitstackshape::cSplit("citations", ",")%>%
    reshape2::melt(id.vars = "file_name")%>%
    select(-variable)%>%rename(cite=value)%>%
    filter(is.na(cite)==F)

cites%>%group_by(cite)%>%
    summarise(freq = n())%>%
    arrange(desc(freq))%>%
    top_n(n=5, wt =freq)
```

## Calculate the most frequency of cited regulations

```
regs<-ref_test%>%select(file_name, regulations)%>%
    mutate(regulations = gsub("\\[|\\]", "", regulations))%>%
    splitstackshape::cSplit("regulations", ",")%>%
    reshape2::melt(id.vars = "file_name")%>%
    select(-variable)%>%rename(reg=value)%>%
    filter(is.na(reg)==F)

regs%>%group_by(reg)%>%
    summarise(freq = n())%>%
    arrange(desc(freq))%>%
    top_n(n=5, wt =freq)
```

```
## # A tibble: 5 x 2
## reg freq
## <chr> <int>
```

```
## 1 '28 USC § 1295' 119

## 2 '35 USC § 103' 30

## 3 '35 USC § 112' 26

## 4 '35 USC § 271' 20

## 5 '125 Stat. 284' 17
```