searchUrl <- "https://openapi.naver.com/v1/search/news.xml"

Client\_ID <- "XSgTAqY22SfEv6H9ivQ6"

Client\_Secret <- "LSJujZa8Zq"

query <- URLencode(iconv("HUAWEI", "UTF-8"))

url <- paste(searchUrl, "?query="HUAWEI, query,"&display=100&start=1&sort=sim", sep="")

doc <- getURL(url,

httpheader = c('Content-Type' = "apllication/xml",

'X-Naver-CLient-Id' = Client\_ID,

'X-Naver-CLient-Secret' = Client\_Secret))

doc

xmlFile <- xmlParse(doc)

df <- xmlToDataFrame(getNodeSet(xmlFile, "//item"))

str(df)

description <- df[,4]

description

description2 <- gsub("\\d|<b>|</b>|&quot;","",description)

description2

nouns <- nouns(iconv(description2, "utf-8"))

nouns

nouns.all <- unlist(nouns, use.names=F)

nouns.all

nouns.all1 <- nouns.all[nchar(nouns.all) <=1]

nouns.all1

nouns.all2 <- nouns.all[nchar(nouns.all) >=2]

nouns.all2

nouns.freq <- table(nouns.all2)

nouns.freq

nouns.df <- data.frame(nouns.freq, stringsAsFactors=F)

nouns.df

nouns.df.sort <- nouns.df[order(-nouns.df$Freq),]

nouns.df.sort

wordcloud(nouns.df.sort[,1],

freq=nouns.df.sort[,2],

min.freq=1,

scale=c(3,0.7),

rot.per=0.25,

random.order=F,

random.color=T,

colors=rainbow(11))