Business card

Make your own word cloud style business card!

1. Install and load necessary packages

```
install.packages("wordcloud",repos="http://cran.rstudio.com/")
```

```
##
## The downloaded binary packages are in
##    /var/folders/6r/t04wzlg56_3_8yl_4nxd5jk40000gn/T//RtmpHfiSnE/downloaded_packages
```

```
install.packages("tm",repos="http://cran.rstudio.com/")
```

```
##
## The downloaded binary packages are in
##    /var/folders/6r/t04wzlg56_3_8yl_4nxd5jk40000gn/T//RtmpHfiSnE/downloaded_packages
```

```
library(wordcloud)
```

```
## Loading required package: RColorBrewer
```

```
library(tm)
```

```
## Loading required package: NLP
```

2. Input your info and keywords

```
name<-"Martin-Skarzynski,-PhD"
email<-"skar@mail.nih.gov"
website<-"www.linkedin.com/in/mskarzynski"
##add location and other info if your like
keywords<- c("protein-engineering", "antibody-engineering", "biochemistry", "translational-s
cience", "molecular-modeling", "bioinformatics", "computational-biology", "data-science", "i
mmunotherapy", "cancer-immunology", "oncogenomics", "immunogenomics","protein-purification",
"targeted-therapy", "high-throughput-screening", "drug-development", "biotherapeutics", "bio
technology", "biostatistics", "oncoproteomics", "molecular-biology", "cellular-biology")
```

3. Replicate terms to set text size

```
n<-nchar(keywords,type="char")
##I want keyword size to be determined by character length.
keyRep<- c(rep(name,18), rep(email,19), rep(website,18), rep(keywords,200/n))
##Adjust the values to suit your needs
```

4. Turn hyphens into spaces

```
corpus <- Corpus(VectorSource(keyRep))
tdm <- TermDocumentMatrix(corpus, control=list(tolower=FALSE))
m <- as.matrix(tdm)
v <- sort(rowSums(m), decreasing = TRUE)
d <- data.frame(word = names(v), freq = v)
d$word <- gsub("-", " ", d$word)
```

5. Pick your favorite colors and generate wordcloud PDF

```
pdf(file="wordcloudBusinessCard.pdf",width=20,height=11)
wordcloud(d$word, d$freq, min.freq=1, max.words=Inf,random.order=FALSE,random.color=FALSE,co
lors = c("gold3","red3","seagreen4", "dodgerblue3", "purple4","firebrick3", "darkorange3",
"darkgreen","mediumblue","chartreuse4","gray28"), rot.per=0)
dev.off()
```

```
## quartz_off_screen
##                  2
```

```
##You might need to run this last code chunk several times to get the contact info to show u
p in the right order (hint: words with larger text size tend to show up in the center).
```

Code available at https://github.com/marskar/WordCloudBusinessCard (https://github.com/marskar/WordCloudBusinessCard)