````
---
title:|
  |Yale Dataset Processing
header-includes: \usepackage{float}
output:
  word_document: default
    pdf_document:
      extra_dependencies: float
subtitle: |
| Qiaoru Zhang
fontsize: 12pt
---
\newpage
```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = FALSE,fig.pos = "H", out.extra = "")
```

```{r,include = FALSE}
## Required library papckages
library(tidyverse)
library(readxl)
library(writexl)
```

```{r,echo=FALSE}
library(readxl)
yale<- read_excel("Desktop/yale..xlsx")
View(yale)
```

#replace ";" with ","
```{r,echo=FALSE}
t1<-gsub(";", ',', yale$Ingredients, fixed = T)
View(t1)
```

#replace ":" with ","
```{r,echo=FALSE}
t2<-gsub(":", ',', t1, fixed = T)
View(t2)
```

#replace "." with ","
```{r,echo=FALSE}
````
````

```
Ingredientslist<-gsub(".", ',', t2, fixed = T)
View(Ingredientslist)
```

#replace new column
```{r,echo=FALSE}
yale[["Ingredients"]] <- Ingredientslist
view(yale)
```

#Convert data.frame columns from factors to characters
```{r,echo=FALSE}
yale$Ingredients <- as.character(yale$Ingredients)
class(yale$Ingredients)
```

#Split the column into mutiple rows
```{r,echo=FALSE}
#install.packages("splitstackshape")
library(splitstackshape)
splictyale<-cSplit(yale, "Ingredients", ",", "long")

View(splictyale)
```

#Delete unvaluable rows
```{r,echo=FALSE}
clearyale = filter(splictyale, !(splictyale$Ingredients %in% c("Contains", "Other Ingredients")))
View(clearyale)
```

Create the data file
```{r}
  write_xlsx(clearyale,"~/Desktop/Yalehackthon.xlsx")
```