Import and Outport data

Peilin Chen 11/3/2017

Import data

Import a txt file by using read.table()

Keep the Header

```
read.table('/Users/Penny/Desktop/dataset/MGSA/GDP.txt',header = TRUE)
```

```
##
      Year Quarter
                        GDP
## 1
     2004
                 1 11405.5
     2004
## 2
                 2 11610.3
      2004
                 3 11779.4
## 3
## 4
     2004
                 4 11948.5
## 5
     2005
                 1 12155.4
## 6
     2005
                 2 12297.5
## 7
     2005
                 3 12538.2
## 8
     2005
                 4 12696.4
## 9
     2006
                 1 12959.6
## 10 2006
                 2 13134.1
## 11 2006
                 3 13249.6
## 12 2006
                 4 13370.1
## 13 2007
                 1 13510.9
## 14 2007
                 2 13737.5
## 15 2007
                 3 13950.6
## 16 2007
                 4 14031.2
## 17 2008
                 1 14150.8
                 2 14294.5
## 18 2008
## 19 2008
                 3 14412.8
## 20 2008
                 4 14200.3
```

Import a csv

Because csv is comma delimited file, we can still call read table (), but specify the sep = ','

```
read.table('/Users/Penny/Desktop/dataset/MGSA/GDP.csv',header = TRUE,sep = ',')
```

```
##
      Year Quarter
                        GDP
## 1
      2004
                 1 11405.5
## 2
      2004
                 2 11610.3
## 3
      2004
                 3 11779.4
## 4
      2004
                 4 11948.5
## 5
      2005
                 1 12155.4
## 6
      2005
                 2 12297.5
## 7
      2005
                 3 12538.2
## 8 2005
                 4 12696.4
```

```
## 9
      2006
                  1 12959.6
## 10 2006
                  2 13134.1
## 11 2006
                  3 13249.6
## 12 2006
                  4 13370.1
## 13 2007
                  1 13510.9
## 14 2007
                  2 13737.5
## 15 2007
                  3 13950.6
## 16 2007
                  4 14031.2
## 17 2008
                  1 14150.8
## 18 2008
                  2 14294.5
## 19 2008
                  3 14412.8
## 20 2008
                  4 14200.3
```

Or using read.csv(). read.csv() or read.csv2() are identical to read.table() expect for the defaults. read.csv() is intended for comma separated files, and read.csv2() is used in countries that use a comma as decimal point and a semicolon as field separator

read.csv('/Users/Penny/Desktop/dataset/MGSA/GDP.csv',header = TRUE)

```
##
      Year Quarter
                        GDP
## 1
      2004
                  1 11405.5
## 2
      2004
                  2 11610.3
## 3
      2004
                  3 11779.4
## 4
      2004
                  4 11948.5
## 5
      2005
                  1 12155.4
## 6
      2005
                  2 12297.5
## 7
      2005
                  3 12538.2
## 8
      2005
                  4 12696.4
## 9
      2006
                  1 12959.6
## 10 2006
                  2 13134.1
## 11 2006
                  3 13249.6
## 12 2006
                  4 13370.1
## 13 2007
                  1 13510.9
## 14 2007
                  2 13737.5
## 15 2007
                  3 13950.6
## 16 2007
                  4 14031.2
## 17 2008
                  1 14150.8
## 18 2008
                  2 14294.5
## 19 2008
                  3 14412.8
## 20 2008
                  4 14200.3
```

Import a xlsx, sheet1, sheet2

```
require(gdata)
read.xls('/Users/Penny/Desktop/dataset/MGSA/GDP.xlsx',header=TRUE,sheet=1)
```

```
## 1 2004 1 11405.5
## 2 2004 2 11610.3
## 3 2004 3 11779.4
## 4 2004 4 11948.5
```

```
## 5
     2005
                 1 12155.4
## 6 2005
                 2 12297.5
     2005
## 7
                 3 12538.2
## 8 2005
                 4 12696.4
## 9
     2006
                 1 12959.6
## 10 2006
                 2 13134.1
## 11 2006
                 3 13249.6
## 12 2006
                 4 13370.1
## 13 2007
                 1 13510.9
## 14 2007
                 2 13737.5
## 15 2007
                 3 13950.6
## 16 2007
                 4 14031.2
## 17 2008
                 1 14150.8
## 18 2008
                 2 14294.5
## 19 2008
                 3 14412.8
## 20 2008
                 4 14200.3
```

read.xls('/Users/Penny/Desktop/dataset/MGSA/GDP.xlsx',header=TRUE,sheet=2)

More example see https://www.statmethods.net/input/importingdata.html

Outport data

```
df=cbind.data.frame('x1'=rnorm(10,mean = 0,sd=1),'x2'=runif(10,0,1))
df
```

```
## x1 x2

## 1 -0.8575181 0.549617951

## 2 -1.4525262 0.436828402

## 3 0.7275399 0.612834786

## 4 -1.0509103 0.607736406

## 5 -1.0349983 0.455409759

## 6 0.3617567 0.566873558

## 7 1.1036085 0.752570194

## 8 -1.5206168 0.004844415

## 9 0.6151616 0.537783604

## 10 -0.6728815 0.806399935
```

Write out the result as test.txt file with tab delimited (sep=".","), keep the column names, drop the row names

Write out as a txt.csv

```
## Warning in write.csv(df, file = "/Users/Penny/Desktop/dataset/MGSA/
## test.csv", : attempt to set 'col.names' ignored
```