



链滴

R 语言基础 - 读取数据

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来源网站: 链滴

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

R语言基础-读取数据

键盘录入

```
user <- data.frame(name=character(0), age=numeric(0), gender=character(0))
user <- edit(user)
user$name
```

name	age	gender
Tom	70	Male
Jerry	70	Male

输出结果:

```
# user$name
[1] Tom  Jerry <NA>
Levels: Tom Jerry
```

自带数据集

```
head(iris)
```

输出: 数据前6行

```
Sepal.Length Sepal.Width Petal.Length Petal.Width Species
1 5.1 3.5 1.4 0.2 setosa
2 4.9 3.0 1.4 0.2 setosa
3 4.7 3.2 1.3 0.2 setosa
4 4.6 3.1 1.5 0.2 setosa
5 5.0 3.6 1.4 0.2 setosa
6 5.4 3.9 1.7 0.4 setosa
```

```
class(iris)
```

输出: 当前类

```
[1] "data.frame"
```

```
[1] table(iris$Sepal.Length)
```

```
> table(iris$Sepal.Length)
```

```
4.3 4.4 4.5 4.6 4.7 4.8 4.9 5 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6 6.1 6.2
1 3 1 4 2 5 6 10 9 4 1 6 7 6 8 7 3 6 6 4
6.3 6.4 6.5 6.6 6.7 6.8 6.9 7 7.1 7.2 7.3 7.4 7.6 7.7 7.9
9 7 5 2 8 3 4 1 1 3 1 1 1 4 1
```

```
>
```

CSV 文件

```
student <- read.table('./dataset/student.csv', head=TRUE, sep=',')
```

```

student[, c('语文', '数学')]
student$语文
student[1]

> student <- read.table('./dataset/student.csv', head=TRUE, sep=',')
> student[, c('语文', '数学')]
  语文  数学
1   35   34
2   90   69
3   78   56
4   78   78
5   80   67
6   56   56
7   67   90
8   84   67
9   88   90
> student$语文
[1] 35 90 78 78 80 56 67 84 88
> student[1]
  姓名
1 诸葛亮
2 张飞
3 孙悟空
4 孙权
5 刘备
6 白骨精
7 宋江
8 贾宝玉
9 林黛玉

```

Excel 文件

安装并引入 RODBC 包

```

install.packages('RODBC')
library('RODBC')

```

读取操作:

```

odbcCon <- odbcConnectExcel('./dataset/student.xls')
sqlFetch(odbcCon, 'Sheet1')

```

连接数据库

这里以 MySQL5为例

安装 RMySQL 和 DPI 包

```

install.packages('RMySQL')
install.packages('DPI')

```

连接MySQL

```

library('DBI')
library("RMySQL")

# 本地数据库
sqlLocalConn <- dbConnect(MySQL(), user = 'root', password = '123456',
                          dbname = 'test', host = 'localhost', port = 3306)

# 远程服务器
sqlRemoteCon <- dbConnect(MySQL(), user = 'root', password = '123456',
                          dbname = 'test', host = 'IP', port = 3306)

```

杂项

因子

因子: 对字符串向量的因子化可以提高table函数的计算效率

```

status <- c('poor', 'improved', 'excellent')
status <- factor(status, ordered = TRUE, levels=c('poor', 'improved', 'excellent'))

```

```

X <- 1:10000
my_inter <- 4500
X <- factor(X > my_inter, labels = LETTERS[1:2])
table(X)
barplot(table(X))

```

```

R 3.6.3 · E:/Practice Projects/R-Workspace/
> dbExecute('select * from user')
Error in (function (classes, fdef, mtable) :
  unable to find an inherited method for function 'dbExecute' for signature "character", "missing"
> status <- c('poor', 'improved', 'excellent')
> status <- factor(status, ordered = TRUE, levels=c('poor', 'improved', 'excellent'))
> status <- c('poor', 'improved', 'excellent')
> status <- factor(status, ordered = TRUE, levels=c('poor', 'improved', 'excellent'))
>
> X <- 1:10000
> my_inter <- 4500
> X <- factor(X > my_inter, labels = LETTERS[1:2])
> table(X)
X
  A  B
4500 5500
> barplot(table(X))
> |

```

