Variable naming convention

Last update: 2017-05-28

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Margin 1: row fun | Margin 2: col fun | Orig. dataset | Row ref. | Col ref. |
| rsum | csum | X | r1 | c1 |
| rmean | cmean | Y | r2 | c2 |
| .. | .. | .. | .. | .. |
| rfun | cfun | Z | rn | cn |
| rfun | cfun | ZZ | rn | cn |
| rfun | cfun | XY | rn | cn |
| rfun | cfun | XYZ | rn | cn |

Example 1: **X**  
table X (this is a dataframe or matrix, can denote as df1, mat2 ..)

Example 2: **X.r8**  
table X, row 8 (this is a vector, can denote as row1, vec2 ..)

Example 3: **X.c5**  
table X, column 5 (this is a vector, can denote as col1, vec2 ..)

Example 4: **X.r8.c5**  
table X, row 8, column 5 (this is a single value, can denote as val1, val2 ..)

Example 5: **rsum.X**  
vector of horizontal sum of all the columns in each row of X (margin 1, rowSums(X))

Example 6: **csum.X**  
vector of vertical sum of all the rows in each column of X (margin 2, colSums(X))

Example 7: **cfun1.X**  
vector of results of a function applied to each row of X, column by column (margin 2, fun1(X)[ ,1:cn])

Example 8: **rsum.r8.X**  
horizontal sum of row 8 (margin 1, rowSums(X)[8, ])

Example 9: **csum.c5.X**  
vertical sum of column 5 (margin 2, colSums(X)[ ,5])

Example 10: **cfun1.c5.X**  
fun1 applied to every cell in column 5 (margin 2, cfun1(X)[ ,5])

Example 11: **XX**  
new table derived solely from original table X

Example 12: **XY**  
new table derived from tables X and Y

v1 <- seq(1:10)  
v2 <- seq(11:20)  
df <- data.frame(v1, v2)  
print(df)

## v1 v2  
## 1 1 1  
## 2 2 2  
## 3 3 3  
## 4 4 4  
## 5 5 5  
## 6 6 6  
## 7 7 7  
## 8 8 8  
## 9 9 9  
## 10 10 10