Econ 673 Lecture 5, 2017-01-17

January 17, 2017 2:36 PM

— tapply —> factors.

-lapply→list.

- Scipply → produces matrix.

Scipply (1:500, function(i) $(m(y \sim [, i] \not \in noef)$. $\rightarrow (\beta_i^{\circ})(\beta_i^{\circ 2}) \cdots (\beta_i^{\circ 500})$ $\beta_i^{\circ 500})$

2x500 matrix.

DList: bITiDD -> vector of 2.

make it a matrix

clo.catl (function conguements into a 1st.

Ynom (n=, mem=, SD=,).

arg= list (n= w, mean = 5, sd=2).

ch. (att (rnorm, arg).

execute mom (org).

Ybind, chind:

Ybind, cbind:

Tbind(x,y) \rightarrow (y)

cbind(x,y) \rightarrow (x y) \rightarrow ds. catl (rbind, b)

can only be done it b

apply (A, Fun)
among which
umansum
to fire.

ex. Alvoxors -> SD on each asbumn.

apply (A, 2, sd) -> amfrite sol for each column.

ColMeans (A).

Uses outbly (A, 2, sd).

al Sums (A)

apply(A 2, sum)

apply (A, 2, min).

apply (A, 2, function(x) mux(x)-min(x))

Expression:

el < expression (at x (sin (x x b))

eval (e, list(x=1, a=1, b=2))

 $\Rightarrow D(el, "x")$

diversitive.

b(b(el, (x1))

double dinevarie

Require library (pourrett)

multicore

be mélapply (1:500, function (1) lm (y~x[i]) \$ coef, masones = 52).

Quachosic

y=Ax2+Bx+C

Object ("Quadra").

Solve 2005

(min)

Solve y=0.

Solve y=0.

binary operator 8+46

"8+8" — function (U. U.)

addquoctra (O., U.).

Consumer Suite:

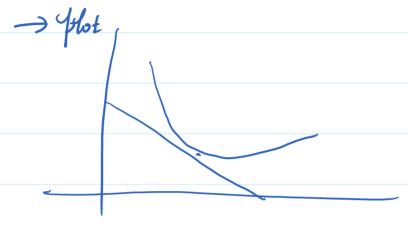
⇒ object of type "Consumer"

⇒ object of type "Consumer"

Willey function.

purumeter name income.

-> solve (can, 1, /2).



heth ("%/%")

Yemindors.

(integer)

ab= 5.999

a\$12b = 5.

1 % 0 % 0.2 4 different Islation.

Std: IFEE 754.

Binary standard.

$$10^{1} + 2 \times 10^{2} + 3 \times 10^{5} = 3 \omega 210$$

In R,
$$p=53$$
 $e_{max}=10.94$
 $e_{min}=-10.02$

. Machine \$

- . Machine \$ clouble_exponent =>11
- · Machine & chruble-mox. on => 1024

machine epsilon:
$$\mathcal{E}$$
 $1+\mathcal{E} \subseteq 1$

$T_{n}f_{+}T_{n}f_{-}=T_{n}f_{-}$
$C_{-1} = 20$
7 1/7 C 6/6/
Inf+Inf = Inf. 9/Inf = 0. Inf/Inf = NaN not a number.
not a number.