

TODO.R

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crisp and intervals (really later) with param EACH, calculate for each round and the next the gains and losses, in decision matrix, and if at the end, if TRUE then another result.

(After Seminar) get_attr_ -> improve, do not assume that all users have the same amount of attributes, consequences? (pending, after Seminar) prove if alpha and beta are in $[0,1]$ interval with \leq, \geq .

(pending, IMPORTANT) Consider removing gainm parameter in powerful_funciton, see what diegovp function does.

(pending, IMPORTANT) Test cost_ids and if refps should also be given with -. Test with paper matrices current2.

(pending, IMPORTANT) FIXED WEIGHTS AND WEIGHTS FUNCTION

(pending) Alternatives 2c) a function that gives you all G & L matrices between chosen alternatives and their next one. If rounds = c(x, x+1, x+2, x+3) then give all following G & L: G&L(x, x+1) ; G&L(x+1, x+2) ; G&L(x+2, x+3). Normalized?

(pending, important) suppressWarning when giving rounds= vector not NULL and not "all", try a way around.

(pending, IMPORTANT) Change all 'data' args to dataset or other than x!

(pending, IMPORTANT) Change ref_ps function when called, add attr parameter and change function as well. attr already added powerful_f.

(pending, middle important) Warning or try catch: Say if wrong attributes are given.

WORKS HEATMAP with the right data! multiply attr4 by 6.545 and then take 4 - that!

```
heatmap.2(tprueba,col=my_palette, symm=F,symkey=F,symbreaks=T, scale="none", dendrogram="none",  
Colv= F, Rowv=F, trace="none", breaks =colbr, margins(6,5))
```

You can hack RStudio with Inspect!!!

Invert prices for plots for example table with column 3 with normal prices: 1) help <- newt[,3]*6.51 2) help <- 4-help 3)cbind(new, help)

```
ggplot(data = new, aes(x = xt, y = yt, color = pt)) + geom_line(size=1.1) + geom_point(size = 2)
```

```
(FINAL, going to Poster) ggplot(data = t2last, aes(x = x2, y = y2, color = p2last)) + geom_line(size=1.1)  
+ geom_point(size = 2) + scale_colour_gradient(low="red", high="green")
```

FIXED

(FIXED) Error Catch: easy: by decision_matrix – prove is provided userid is in the userid of the data.

(DONE, IMPORTANT) Add powerful_functions to the powerful_function conditions (con7,8), think which ones. (DONE, NECESSARY ASAP, last is implemented) allow for rounds= "first", "last".