Implementation Checks on tflashr

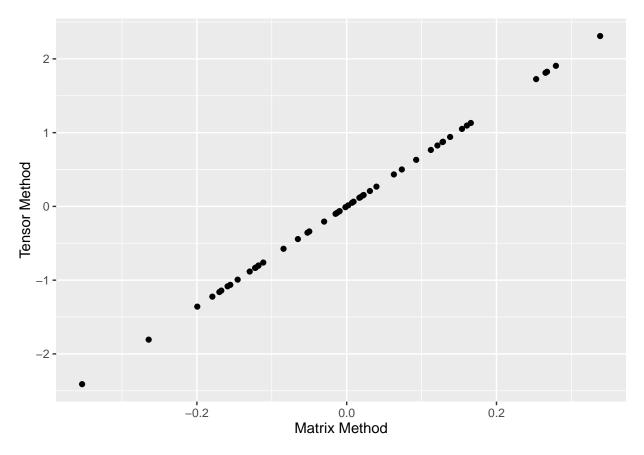
David Gerard 2016-03-25

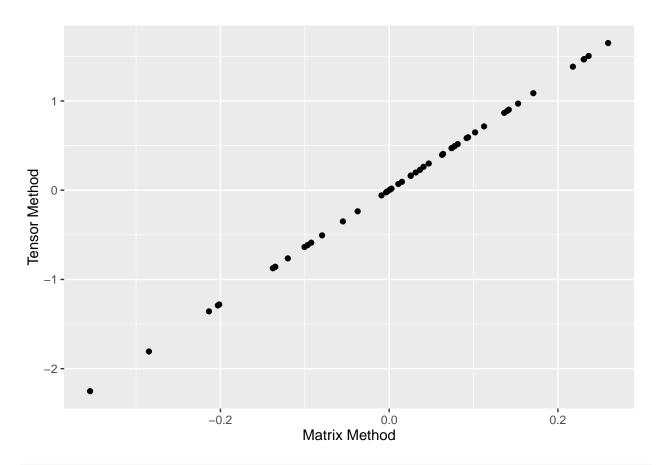
Abstract.

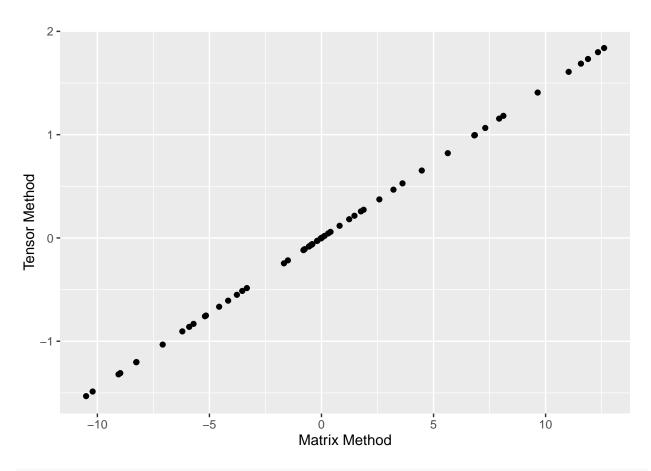
I run some implementation checks on tgreedy.

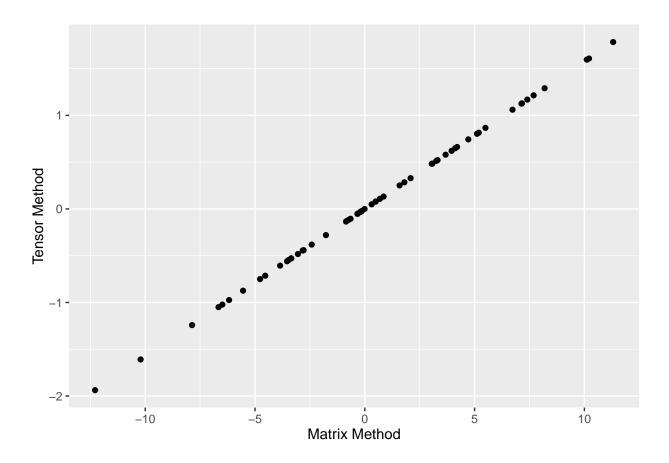
See if equivalent to flashr::greedy

Generate matrix data and plot the components from greedy and tgreedy.









Just make sure nothing funky is going on for tensor data.

Generate a cp-rank 2 tensor.

```
rm(list = ls())
set.seed(12)
p <- c(50, 50, 50)
u <- list()
u[[1]] <- rnorm(p[1])
u[[2]] <- rnorm(p[2])
u[[3]] <- rnorm(p[3])

v <- list()
v[[1]] <- rnorm(p[1])
v[[2]] <- rnorm(p[2])
v[[3]] <- rnorm(p[2])
v[[3]] <- rnorm(p[3])</pre>
Theta <- form_outer(u) + form_outer(v)
E <- array(rnorm(prod(p)), dim = p)
Y <- Theta + E</pre>
```

Fit model and plot estimates.

```
t_out <- tgreedy(Y)
```

