SSCD Vignette on GtexResampled Data

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Load the SSCD library

library(SSCD)

Load GtexResampled Data

load("SSCD/data/GtexResampled.RData")

Load the expression matrix

SSCD optimization can take a couple of hours in a multi-core environment. We demonstrate with a small subset.

```
small_mix <- Dataset_Resampled_Gtex$ex[1:100,]</pre>
```

Get the number of compartments from the trueH matrix

compartment_n <- nrow(Dataset_Resampled_Gtex\$trueH)</pre>

Load the expression matrix

For optimization, set the number of cores (parallel $_n$) available for the optimization - the more the better

```
improvedW <- SSCD::SSCD(small_mix, compartments_n = compartment_n,
nrun = 200, nmf seed = 124578, mvg = 1000, parallel n = 10)</pre>
```