

# GTEX Organization

This document describes how to produce the heatmap required to look for overlap among individuals.

```
cd individuals
for i in $( ls | grep "expr"); do
b=`basename $i ".expr.txt"`
echo $b
cat $i | head -1 > ./d/$b
done

for i in $(cat list.txt); do b=`basename $i ".expr.txt"`; echo $b; done
```

```
## [1] 362
```

```
## [1] Muscle_Skeletal_Analysis
## 44 Levels: Adipose_Subcutaneous_Analysis ...
```

```
##           Adipose_Subcutaneous_Analysis Adipose_Visceral_Omentum_Analysis
## Id           "Id"                      "Id"
## GTEX-1117F NA                          "GTEX-1117F"
## GTEX-111CU "GTEX-111CU"                "GTEX-111CU"
## GTEX-111FC "GTEX-111FC"                NA
## GTEX-111VG "GTEX-111VG"                NA
## GTEX-111YS "GTEX-111YS"                "GTEX-111YS"
## GTEX-11220 "GTEX-11220"                "GTEX-11220"
## GTEX-1128S "GTEX-1128S"                "GTEX-1128S"
## GTEX-113JC NA                          "GTEX-113JC"
## GTEX-117XS NA                          NA
##           Adrenal_Gland_Analysis Artery_Aorta_Analysis
## Id           "Id"                      "Id"
## GTEX-1117F NA                          NA
## GTEX-111CU "GTEX-111CU"                NA
## GTEX-111FC NA                          NA
## GTEX-111VG NA                          NA
## GTEX-111YS "GTEX-111YS"                "GTEX-111YS"
## GTEX-11220 "GTEX-11220"                "GTEX-11220"
## GTEX-1128S NA                          "GTEX-1128S"
## GTEX-113JC NA                          NA
## GTEX-117XS NA                          "GTEX-117XS"
##           Artery_Coronary_Analysis Artery_Tibial_Analysis
## Id           "Id"                      "Id"
## GTEX-1117F "GTEX-1117F"                NA
## GTEX-111CU NA                          NA
## GTEX-111FC NA                          "GTEX-111FC"
## GTEX-111VG NA                          NA
## GTEX-111YS NA                          "GTEX-111YS"
## GTEX-11220 "GTEX-11220"                NA
## GTEX-1128S NA                          "GTEX-1128S"
## GTEX-113JC NA                          NA
## GTEX-117XS NA                          NA
##           Brain_Anterior_cingulate_cortex_BA24_Analysis
## Id           "Id"
```

```

## GTEX-1117F NA
## GTEX-111CU NA
## GTEX-111FC NA
## GTEX-111VG NA
## GTEX-111YS NA
## GTEX-11220 NA
## GTEX-1128S NA
## GTEX-113JC NA
## GTEX-117XS NA
##      Brain_Caudate_basal_ganglia_Analysis
## Id      "Id"
## GTEX-1117F NA
## GTEX-111CU NA
## GTEX-111FC NA
## GTEX-111VG NA
## GTEX-111YS NA
## GTEX-11220 NA
## GTEX-1128S NA
## GTEX-113JC NA
## GTEX-117XS NA
##      Brain_Cerebellar_Hemisphere_Analysis Brain_Cerebellum_Analysis
## Id      "Id"      "Id"
## GTEX-1117F NA      NA
## GTEX-111CU NA      NA
## GTEX-111FC NA      "GTEX-111FC"
## GTEX-111VG NA      NA
## GTEX-111YS NA      NA
## GTEX-11220 NA      NA
## GTEX-1128S NA      "GTEX-1128S"
## GTEX-113JC NA      NA
## GTEX-117XS NA      "GTEX-117XS"

##      Adipose_Subcutaneous_Analysis Adipose_Visceral_Omentum_Analysis
## Id      1      1
## GTEX-1117F      0      1
## GTEX-111CU      1      1
## GTEX-111FC      1      0
## GTEX-111VG      1      0
## GTEX-111YS      1      1
##      Adrenal_Gland_Analysis Artery_Aorta_Analysis
## Id      1      1
## GTEX-1117F      0      0
## GTEX-111CU      1      0
## GTEX-111FC      0      0
## GTEX-111VG      0      0
## GTEX-111YS      1      1
##      Artery_Coronary_Analysis Artery_Tibial_Analysis
## Id      1      1
## GTEX-1117F      1      0
## GTEX-111CU      0      0
## GTEX-111FC      0      1
## GTEX-111VG      0      0
## GTEX-111YS      0      1
##      Brain_Anterior_cingulate_cortex_BA24_Analysis

```

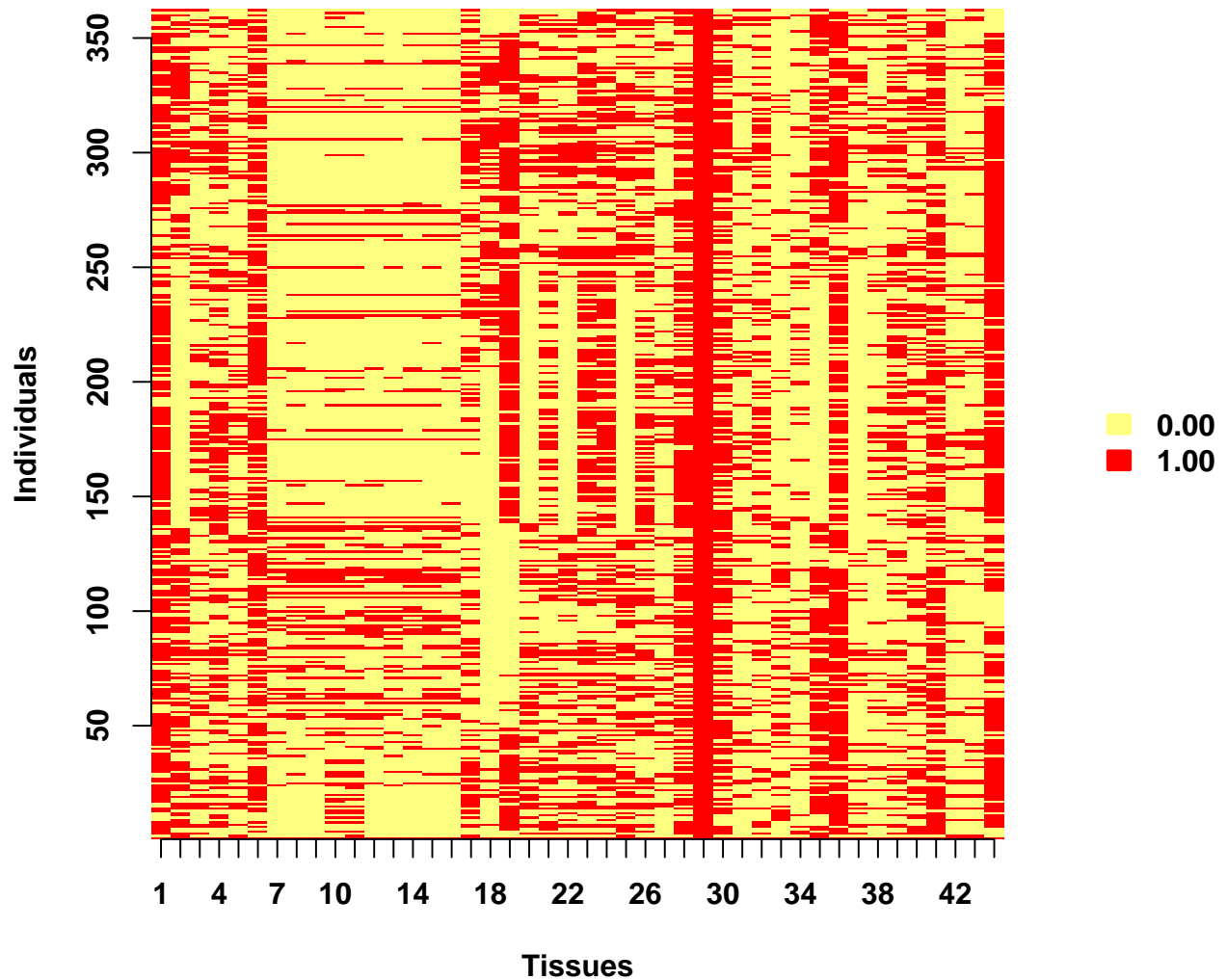
## Id	1
## GTEX-1117F	0
## GTEX-111CU	0
## GTEX-111FC	0
## GTEX-111VG	0
## GTEX-111YS	0
## Brain_Caudate_basal_ganglia_Analysis	
## Id	1
## GTEX-1117F	0
## GTEX-111CU	0
## GTEX-111FC	0
## GTEX-111VG	0
## GTEX-111YS	0
## Brain_Cerebellar_Hemisphere_Analysis Brain_Cerebellum_Analysis	
## Id	1 1
## GTEX-1117F	0 0
## GTEX-111CU	0 0
## GTEX-111FC	0 1
## GTEX-111VG	0 0
## GTEX-111YS	0 0
## Brain_Cortex_Analysis Brain_Frontal_Cortex_BA9_Analysis	
## Id	1 1
## GTEX-1117F	1 0
## GTEX-111CU	0 0
## GTEX-111FC	1 0
## GTEX-111VG	0 0
## GTEX-111YS	0 0
## Brain_Hippocampus_Analysis Brain_Hypothalamus_Analysis	
## Id	1 1
## GTEX-1117F	0 0
## GTEX-111CU	0 0
## GTEX-111FC	0 0
## GTEX-111VG	0 0
## GTEX-111YS	0 0
## Brain_Nucleus_accumbens_basal_ganglia_Analysis	
## Id	1
## GTEX-1117F	0
## GTEX-111CU	0
## GTEX-111FC	0
## GTEX-111VG	0
## GTEX-111YS	0
## Brain_Putamen_basal_ganglia_Analysis	
## Id	1
## GTEX-1117F	0
## GTEX-111CU	0
## GTEX-111FC	0
## GTEX-111VG	0
## GTEX-111YS	0
## Breast_Mammary_Tissue_Analysis	
## Id	1
## GTEX-1117F	1
## GTEX-111CU	0
## GTEX-111FC	0
## GTEX-111VG	0

##	GTEX-111YS	1	
##	Cells_EBV.transformed_lymphocytes_Analysis		
##	Id	1	
##	GTEX-1117F	0	
##	GTEX-111CU	0	
##	GTEX-111FC	0	
##	GTEX-111VG	0	
##	GTEX-111YS	0	
##	Cells_Transformed_fibroblasts_Analysis Colon_Sigmoid_Analysis		
##	Id	1	1
##	GTEX-1117F	0	0
##	GTEX-111CU	0	1
##	GTEX-111FC	0	0
##	GTEX-111VG	1	0
##	GTEX-111YS	1	1
##	Colon_Transverse_Analysis		
##	Id	1	
##	GTEX-1117F	0	
##	GTEX-111CU	1	
##	GTEX-111FC	0	
##	GTEX-111VG	1	
##	GTEX-111YS	1	
##	Esophagus_Gastroesophageal_Junction_Analysis		
##	Id	1	
##	GTEX-1117F	0	
##	GTEX-111CU	1	
##	GTEX-111FC	0	
##	GTEX-111VG	0	
##	GTEX-111YS	1	
##	Esophagus_Mucosa_Analysis Esophagus_Muscularis_Analysis		
##	Id	1	1
##	GTEX-1117F	0	0
##	GTEX-111CU	1	1
##	GTEX-111FC	0	0
##	GTEX-111VG	0	0
##	GTEX-111YS	1	1
##	Heart_Atrial_Appendage_Analysis Heart_Left_Ventricle_Analysis		
##	Id	1	1
##	GTEX-1117F	1	0
##	GTEX-111CU	0	0
##	GTEX-111FC	1	1
##	GTEX-111VG	1	0
##	GTEX-111YS	1	1
##	Liver_Analysis Lung_Analysis Muscle_Skeletal_Analysis		
##	Id	1	1
##	GTEX-1117F	0	0
##	GTEX-111CU	0	1
##	GTEX-111FC	0	1
##	GTEX-111VG	0	1
##	GTEX-111YS	0	1
##	Nerve_Tibial_Analysis Ovary_Analysis Pancreas_Analysis		
##	Id	1	1
##	GTEX-1117F	0	0
##	GTEX-111CU	1	0

##	GTEX-111FC	1	0	0
##	GTEX-111VG	1	0	0
##	GTEX-111YS	1	0	1
##	Pituitary_Analysis Prostate_Analysis			
##	Id	1	1	
##	GTEX-1117F	0	0	
##	GTEX-111CU	0	1	
##	GTEX-111FC	0	1	
##	GTEX-111VG	0	0	
##	GTEX-111YS	0	1	
##	Skin_Not_Sun_Exposed_Suprapubic_Analysis			
##	Id		1	
##	GTEX-1117F		1	
##	GTEX-111CU		1	
##	GTEX-111FC		0	
##	GTEX-111VG		1	
##	GTEX-111YS		1	
##	Skin_Sun_Exposed_Lower_leg_Analysis			
##	Id		1	
##	GTEX-1117F		0	
##	GTEX-111CU		1	
##	GTEX-111FC		1	
##	GTEX-111VG		1	
##	GTEX-111YS		0	
##	Small_Intestine_Terminal_Ileum_Analysis Spleen_Analysis			
##	Id		1	1
##	GTEX-1117F		0	0
##	GTEX-111CU		1	0
##	GTEX-111FC		0	0
##	GTEX-111VG		0	0
##	GTEX-111YS		1	0
##	Stomach_Analysis Testis_Analysis Thyroid_Analysis			
##	Id	1	1	1
##	GTEX-1117F	0	0	0
##	GTEX-111CU	1	1	1
##	GTEX-111FC	0	1	1
##	GTEX-111VG	0	1	1
##	GTEX-111YS	1	1	1
##	Uterus_Analysis Vagina_Analysis Whole_Blood_Analysis			
##	Id	1	1	1
##	GTEX-1117F	1	1	0
##	GTEX-111CU	0	0	0
##	GTEX-111FC	0	0	0
##	GTEX-111VG	0	0	0
##	GTEX-111YS	0	0	1

```
myheatmap(boolean.mat)
```

## Presence of Tissue Sample



(tissues\$V1)

```
## [1] Adipose_Subcutaneous_Analysis
## [2] Adipose_Visceral_Omentum_Analysis
## [3] Adrenal_Gland_Analysis
## [4] Artery_Aorta_Analysis
## [5] Artery_Coronary_Analysis
## [6] Artery_Tibial_Analysis
## [7] Brain_Anterior_cingulate_cortex_BA24_Analysis
## [8] Brain_Caudate_basal_ganglia_Analysis
## [9] Brain_Cerebellar_Hemisphere_Analysis
## [10] Brain_Cerebellum_Analysis
## [11] Brain_Cortex_Analysis
## [12] Brain_Frontal_Cortex_BA9_Analysis
## [13] Brain_Hippocampus_Analysis
## [14] Brain_Hypothalamus_Analysis
## [15] Brain_Nucleus_accumbens_basal_ganglia_Analysis
## [16] Brain_Putamen_basal_ganglia_Analysis
## [17] Breast_Mammary_Tissue_Analysis
```

```
## [18] Cells_EBV-transformed_lymphocytes_Analysis
## [19] Cells_Transformed_fibroblasts_Analysis
## [20] Colon_Sigmoid_Analysis
## [21] Colon_Transverse_Analysis
## [22] Esophagus_Gastroesophageal_Junction_Analysis
## [23] Esophagus_Mucosa_Analysis
## [24] Esophagus_Muscularis_Analysis
## [25] Heart_Atrial_Appendage_Analysis
## [26] Heart_Left_Ventricle_Analysis
## [27] Liver_Analysis
## [28] Lung_Analysis
## [29] Muscle_Skeletal_Analysis
## [30] Nerve_Tibial_Analysis
## [31] Ovary_Analysis
## [32] Pancreas_Analysis
## [33] Pituitary_Analysis
## [34] Prostate_Analysis
## [35] Skin_Not_Sun_Exposed_Suprapubic_Analysis
## [36] Skin_Sun_Exposed_Lower_leg_Analysis
## [37] Small_Intestine_Terminal_Ileum_Analysis
## [38] Spleen_Analysis
## [39] Stomach_Analysis
## [40] Testis_Analysis
## [41] Thyroid_Analysis
## [42] Uterus_Analysis
## [43] Vagina_Analysis
## [44] Whole_Blood_Analysis
## 44 Levels: Adipose_Subcutaneous_Analysis ...
```