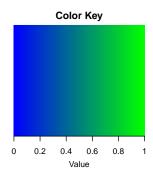
# uk3

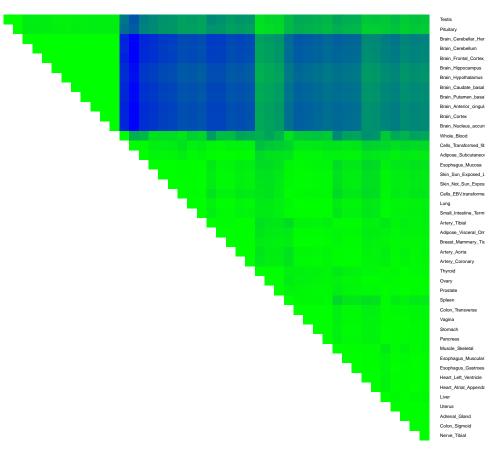
Here we plot the correlation matrix and the first 3 eigenvectors of Uk3.

```
library('knitr')
knitr::opts_chunk$set(cache=TRUE)
opts_chunk$set(fig.path = "/Users/sarahurbut/Dropbox/PaperEdits/Paper/Figures/")
covmat=readRDS("../Data/covmatAug13withED.rds")
z.stat=read.table("../Data/maxz.txt")
names=colnames(z.stat)
pis=readRDS("../Data/pisAug13withED.rds")$pihat
pi.mat=matrix(pis,ncol=54,nrow=22,byrow = T)
library(gplots)
library(ggplot2)
library('colorRamps')
#install.packages("fields")
library(fields)
k=3
hclust.2=function (d, method = "average", members = NULL) {hclust(d, method, members)}
  x=cov2cor(covmat[[k]])
x[x<0]=0
  colnames(x)=names
  rownames(x)=names
h=read.table("../Analysis/uk3rowindices.txt")[,1]
```

heatmap:



## Cov2CorUk3



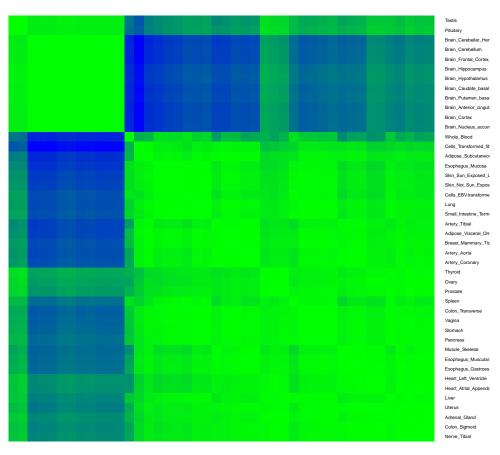
#### As square:

# 

Value

## used

## Cov2CorUk3



```
missing.tissues=c(7,8,19,20,24,25,31,34,37)
color.gtex=read.table("../Data/GTExColors.txt",sep = '\t', comment.char = '')[-missing.tissues,]
col = as.character(color.gtex[,2])
library('corrplot')

corrplot((x[h,h]),type="upper",cl.lim=c(0,1),tl.col=col[h],tl.cex=0.8,method="color",col=rep(blue2green")
## Warning in ind1:ind2: numerical expression has 2 elements: only the first
## used
## Warning in ind1:ind2: numerical expression has 2 elements: only the first
```

```
Intestine_Terminal_llet
                                                                                isceral Omentum
                                                                 Skin_Sun_Exposed_Lower_
Skin_Not_Sun_Exposed_Su
                                                               Esophagus_Mucosa
                                                                                   Mammary
                                                                           Small
                                                                                                                                               0.9
                                                                                                                                               0.8
                                         Whole_Blood
                                                                                                                                               0.7
                                   Adipose_Subcutaneous
                                         Esophagus_Mucosa
                             Skin_Sun_Exposed_Lower_leg
Skin_Not_Sun_Exposed_Suprapubic
                                                                                                                                               0.6
                               Cells_EBV.transformed_lymphocyte
                                         Small_Intestine_Terminal_Ileum
                                                               Artery_Tibial
                                                  Adipose_Visceral_Omentum
Breast_Mammary_Tissue
                                                                                                                                               0.5
                                                                      Artery_Aorta
                                                                                 Thyroid
                                                                                                                                               0.4
                                                                                         Spleen
                                                                                Colon_Transverse
                                                                                                                                               0.3
                                                                                              Vagina
                                                                                                Pancreas
                                                                                                                                               0.2
                                                                                      Esophagus_Muscularis
                                                                       Esophagus_Gastroesophageal_Junction
                                                                                              Heart_Left_Ventricle
                                                                                            Heart_Atrial_Appendage
                                                                                                                                               0.1
                                                                                                             Adrenal_Gland
                                                                                                                Colon_Sigmoid
                                                                                                                    Nerve_Tibial
colnames(x)=NULL
rownames(x)=rep(".",44)
corrplot((x[h,h]),type="upper",cl.lim=c(0,1),tl.col=col[h],tl.cex=8,method="color",col=rep(blue2green(2))
```

## Warning in ind1:ind2: numerical expression has 2 elements: only the first

## Warning in ind1:ind2: numerical expression has 2 elements: only the first

## used



