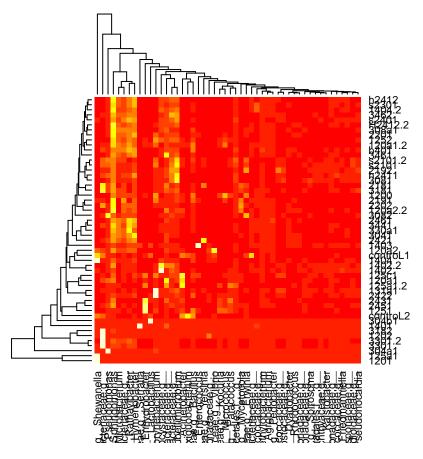
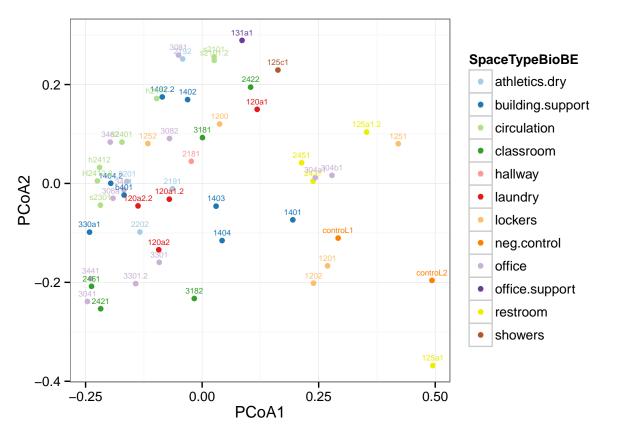
ger_summary_plots.R

rhickey

Wed Oct 28 22:30:13 2015

```
## Perform exploratory ecological analysis on taxonomic data
## 2015-10-27
## Roxana Hickey <roxana.hickey@gmail.com>
setwd('~/Documents/gerlinger/')
library(ggplot2)
library(RColorBrewer)
library(vegan)
## Loading required package: permute
## Loading required package: lattice
## This is vegan 2.3-1
library(labdsv)
## Loading required package: mgcv
## Loading required package: nlme
## This is mgcv 1.8-8. For overview type 'help("mgcv-package")'.
## Loading required package: MASS
## Attaching package: 'labdsv'
## The following object is masked from 'package:stats':
##
##
       density
library(plyr)
library(phyloseq)
## Creating a generic function for 'nchar' from package 'base' in package 'S4Vectors'
library(gplots)
##
## Attaching package: 'gplots'
## The following object is masked from 'package:stats':
##
##
       lowess
## load custom functions
# source('code/custom_ggplot_settings.R')
# source('code/custom heatmap.3.R')
```

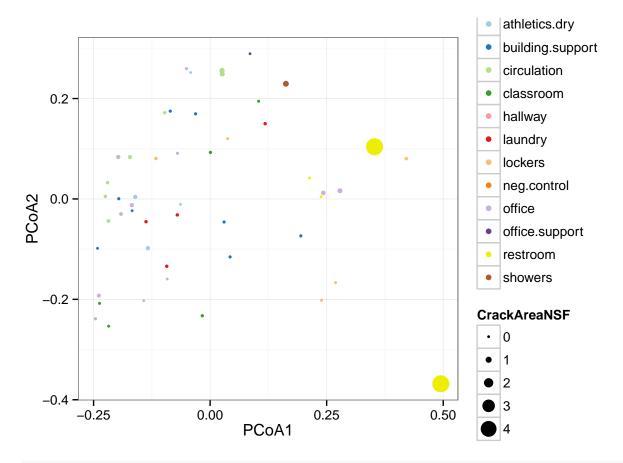




```
ggsave('figures/pcoa_bc_g_sampletype.png')
```

Saving 6.5×4.5 in image

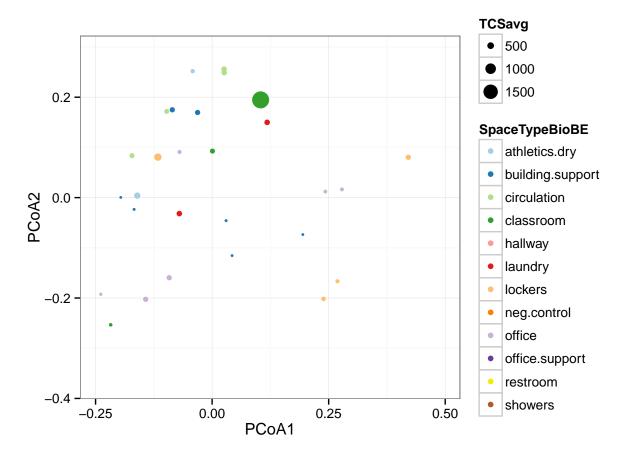
```
## crack area NSF
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = Crack
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



ggsave('figures/pcoa_bc_g_crackarea.png')

```
## Saving 6.5 \times 4.5 in image
```

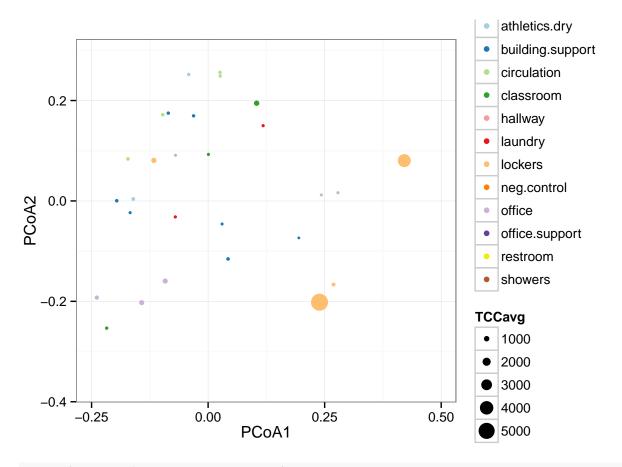
```
## chem = TCSavg
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = TCSavg
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_bc_g_TCSavg.png')
```

```
## Saving 6.5 \times 4.5 in image
```

```
## chem = TCCavg
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = TCCavg
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```

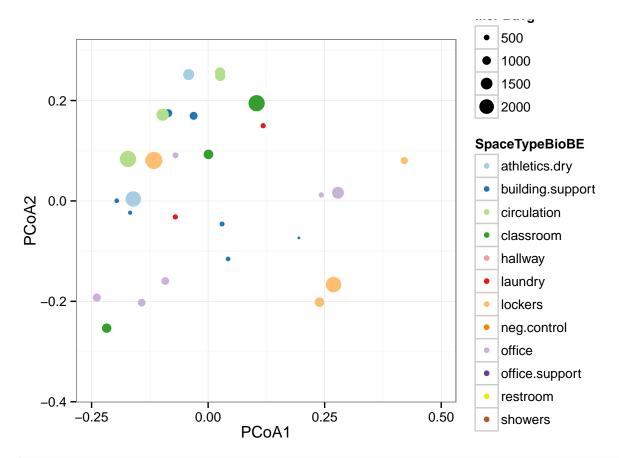


ggsave('figures/pcoa_bc_g_TCCavg.png')

```
## Saving 6.5 \times 4.5 in image
```

Warning: Removed 25 rows containing missing values (geom_point).

```
## chem = MePBavg
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = MePBa
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```

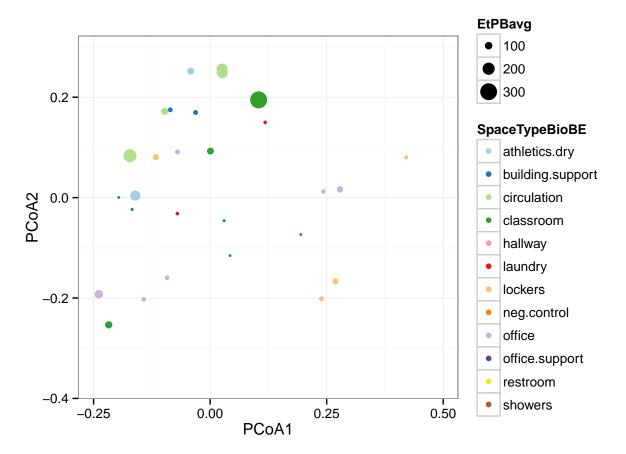


ggsave('figures/pcoa_bc_g_MePBavg.png')

```
## Saving 6.5 \times 4.5 in image
```

Warning: Removed 25 rows containing missing values (geom_point).

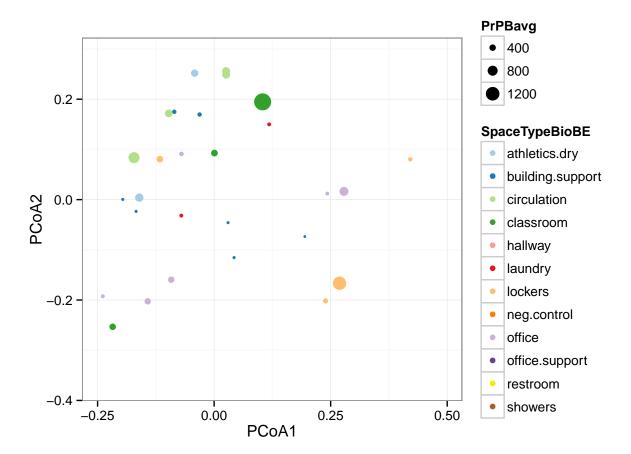
```
## chem = EtPBavg
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = EtPBa
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_bc_g_EtPBavg.png')
```

```
## Saving 6.5 \times 4.5 in image
```

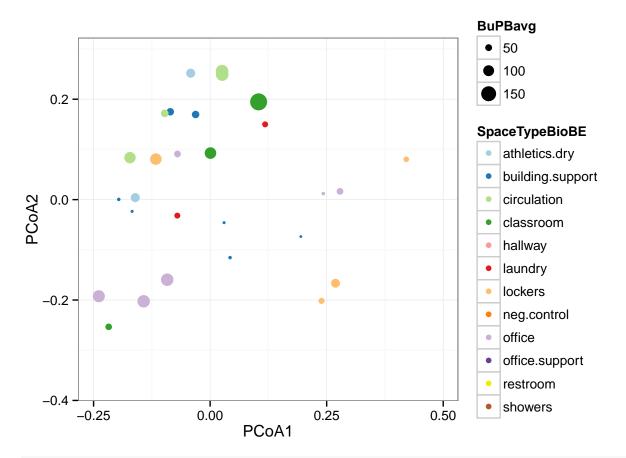
```
## chem = PrPBavg
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = PrPBa
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_bc_g_PrPBavg.png')
```

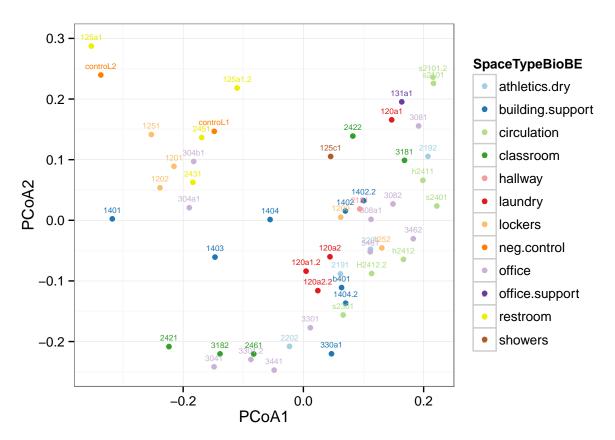
```
## Saving 6.5 \times 4.5 in image
```

```
## chem = BuBPavg
gg.pcoa.bc.g <- ggplot(df.pcoa.bc.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = BuPBa
gg.pcoa.bc.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_bc_g_BuPBavg.png')
```

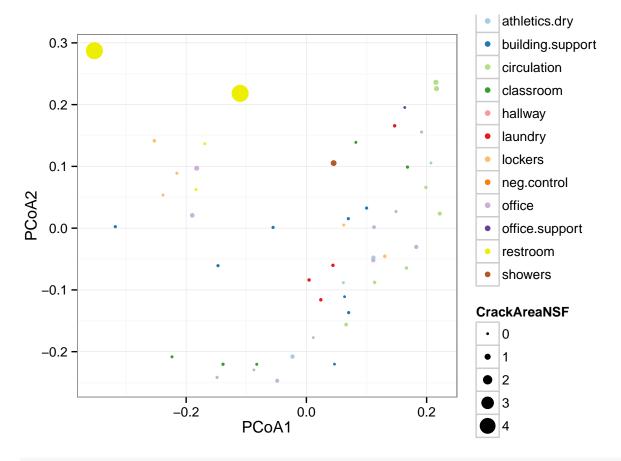
```
## Saving 6.5 \times 4.5 in image
```



```
ggsave('figures/pcoa_can_g_sampletype.png')
```

Saving 6.5×4.5 in image

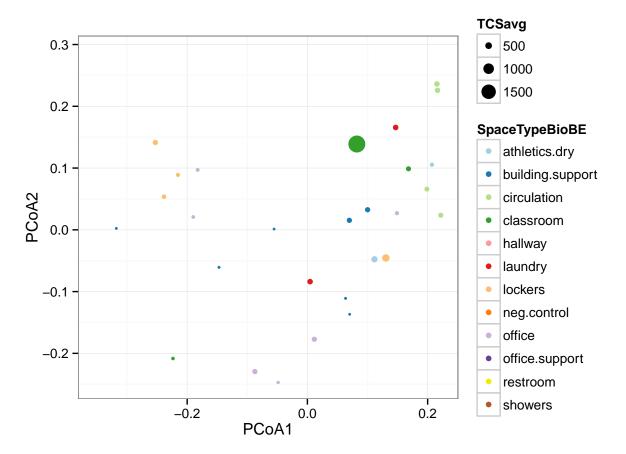
```
## crack area NSF
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = Cra
gg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



ggsave('figures/pcoa_can_g_crackarea.png')

```
## Saving 6.5 \times 4.5 in image
```

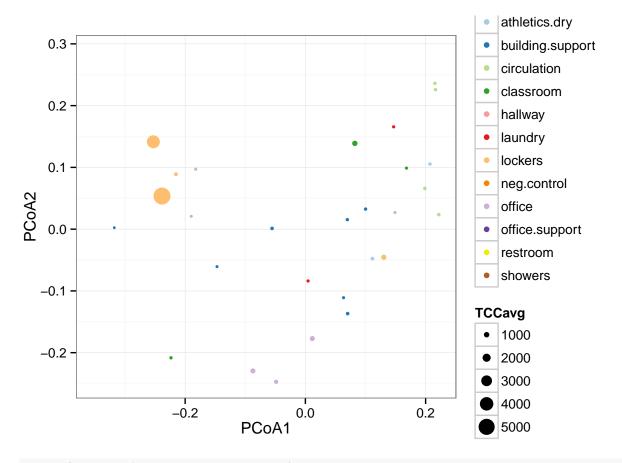
```
## chem = TCSavg
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = TCS
gg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_can_g_TCSavg.png')
```

```
## Saving 6.5 \times 4.5 in image
```

```
## chem = TCCavg
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = TCC
gg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```

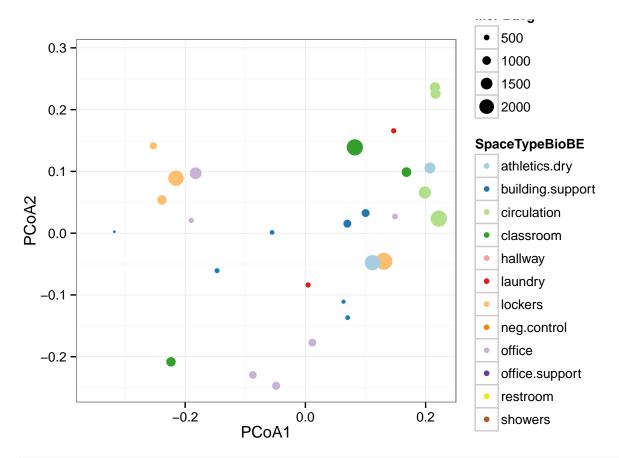


ggsave('figures/pcoa_can_g_TCCavg.png')

```
## Saving 6.5 \times 4.5 in image
```

Warning: Removed 25 rows containing missing values (geom_point).

```
## chem = MePBavg
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = MeP
gg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```

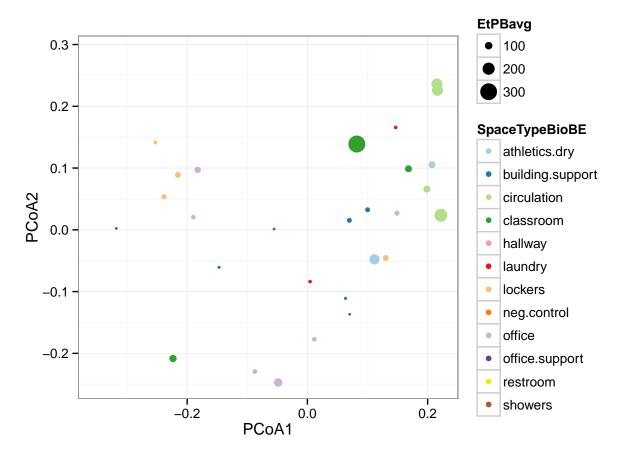


ggsave('figures/pcoa_can_g_MePBavg.png')

```
## Saving 6.5 x 4.5 in image
```

Warning: Removed 25 rows containing missing values (geom_point).

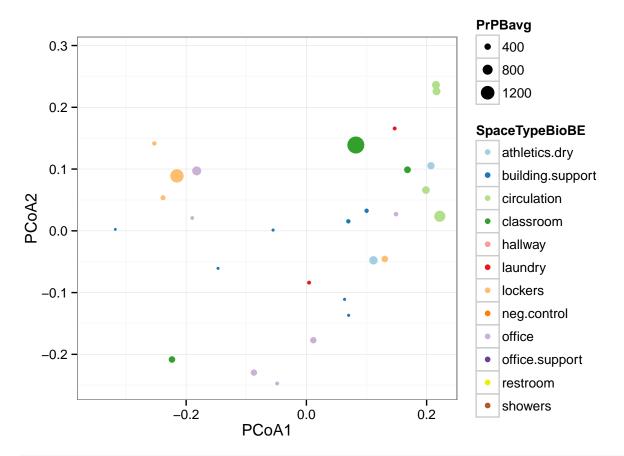
```
## chem = EtPBavg
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = EtPgg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_can_g_EtPBavg.png')
```

```
## Saving 6.5 \times 4.5 in image
```

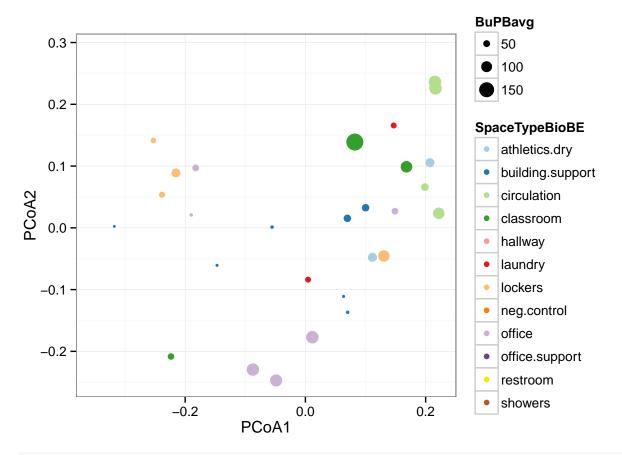
```
## chem = PrPBavg
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = PrP.
gg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



```
ggsave('figures/pcoa_can_g_PrPBavg.png')
```

```
## Saving 6.5 \times 4.5 in image
```

```
## chem = BuBPavg
gg.pcoa.can.g <- ggplot(df.pcoa.can.g.all, aes(x = PCoA1, y = PCoA2, color = SpaceTypeBioBE, size = BuP.
gg.pcoa.can.g + geom_point() + scale_color_manual(values = mycol.12)</pre>
```



ggsave('figures/pcoa_can_g_BuPBavg.png')

Saving 6.5×4.5 in image