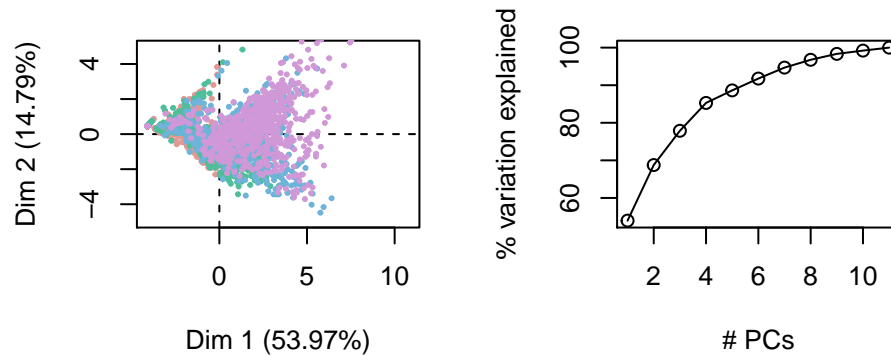# Exploring Ontogeny Analysis

D Hall

November 17, 2015
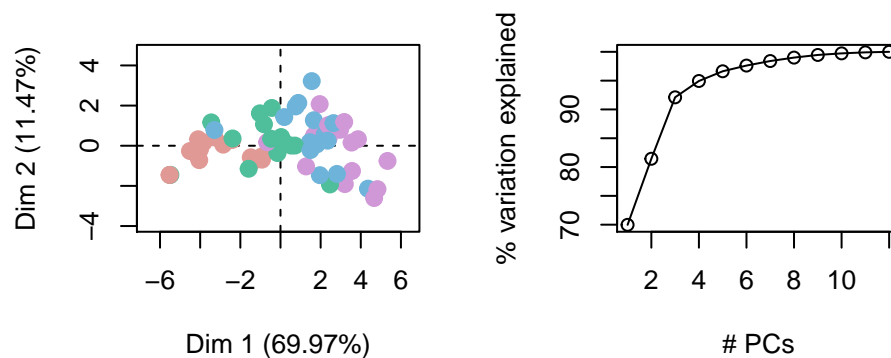
PCA

PCA was performed on well level data and plate level data. Plate level data was obtained by taking the median of the wells on a plate.


```
##
## Call:
## lm(formula = bs.pca.all$ind$coord[, 1] ~ df$DIV)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -6.5694 -1.1819  0.1199  1.1037  8.3545
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
```

```
## (Intercept) -5.33473    0.10823  -49.29   <2e-16
## df$DIV       0.64981    0.01258   51.66   <2e-16
##
## (Intercept) ***
## df$DIV      ***
## ---
## Signif. codes:
## 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.769 on 2974 degrees of freedom
## Multiple R-squared:  0.473,Adjusted R-squared:  0.4728
## F-statistic:  2669 on 1 and 2974 DF,  p-value: < 2.2e-16
## pdf
##   2
```

PC dimension 1 regressed on DIV
Slope Coefficeint sig.(P<0.001)