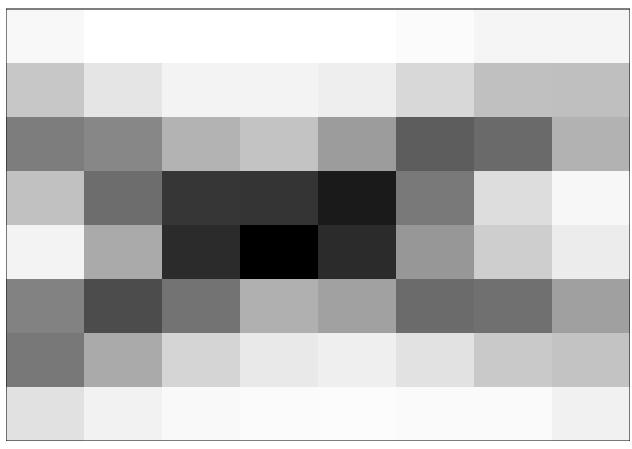
ProbSet 6?

Theodore Dounias November 9, 2017

```
d <- d %>%
 filter(letter == "x")
## Warning: package 'bindrcpp' was built under R version 3.3.3
plot_letter(d[12, ])
g_mean <- colSums(d[, -1])/nrow(d)</pre>
plot_letter(g_mean, hasletter = FALSE)
```



```
pca1 <- prcomp(d[, -1])
data <- as.data.frame(pca1$x)
p1 <- ggplot(data, aes(x = PC1, y = PC2)) +
    geom_point()
p1</pre>
```

