```r
pdf("Results/PCA_plot.pdf")

ggplot(pca_data, aes(PC1, PC2, color = Group)) +

  geom_point(size = 3) +

  theme_minimal() +

  ggtitle("PCA After Normalization")

dev.off()


pdf("Results/Boxplot_After_Normalization.pdf")

boxplot(data.norm, main = "Boxplot After Normalization", las = 2, col = "lightblue")

dev.off()
```