

```

> f <- function(w, point) {
+   x <- c(point, 1)
+   sign(w %*% x)
+ }
> w.0 <- c(runif(1), runif(1), runif(1))
> w.t <- w.0
> for (j in 1:1000) {
+   i <- (j - 1)%50 + 1
+   diff <- iris.data[i, 4] - f(w.t, c(iris.data[i, 1], iris.data[i, 2]))
+   w.t <- w.t + 0.2 * diff * c(iris.data[i, 1], iris.data[i, 2], 1)
+ }

```

Petal Dimensions in Iris Blossoms

