Lab-7

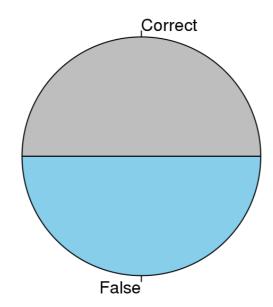
Test 1

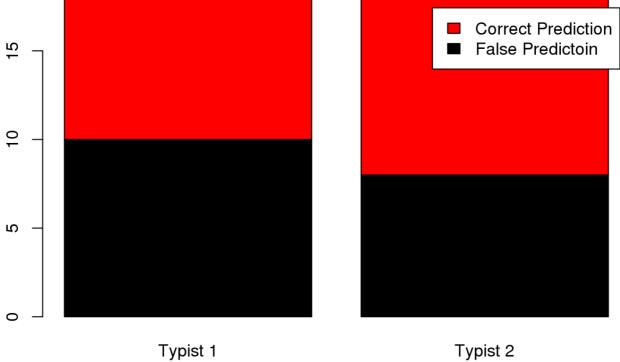
```
test_1 <- read.csv("~/CS-261/Lab-7/Test-1.csv")
```

```
#Pie chart for correct predictions

correct <- table(test_1$Correct.)["TRUE"]
false <- table(test_1$Correct.)["FALSE"]
slices <- c(correct, false)
lbls <- c("Correct", "False")
pie(slices, labels = lbls, main="Percent of Correct Prediction",col=c("grey", "sky blue"))</pre>
```

Percent of Correct Prediction





```
Letter Typed By

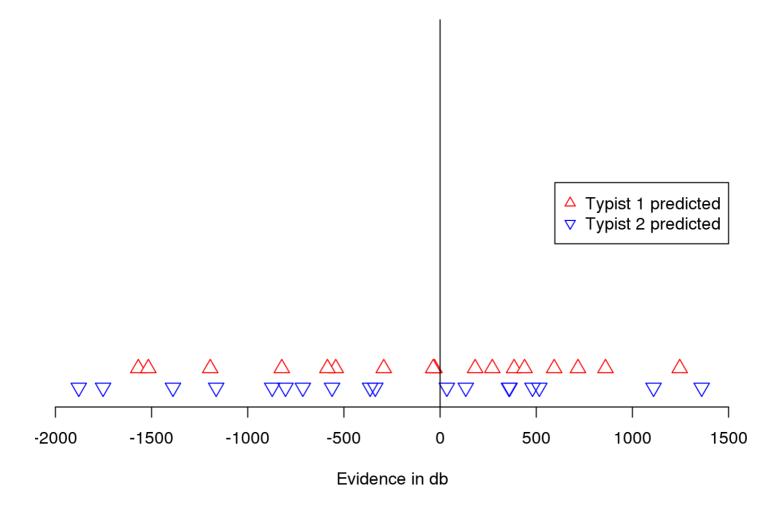
#One dimensional scatter plot for Test 1
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
## filter, lag

## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union
```

```
xlim <- c(-2000, 1500);
ylim <- c(0,20);
letters_from_1 <- filter(test_1, test_1$Letter.Typed.By == 1)</pre>
letters_from_2 <- filter(test_1, test_1$Letter.Typed.By == 2)</pre>
px_1 <- letters_from_1$Evidence</pre>
py_1 \leftarrow c(rep(2, length(px_1)))
px 2 <- letters from 2$Evidence
py_2 \leftarrow c(rep(1, length(px_2)))
lx.buf <- 0;
lx <- seq(xlim[1]+lx.buf,xlim[2]-lx.buf,len=length(px_1));</pre>
1y < -0;
## create basic plot outline
par(xaxs='i',yaxs='i',mar=c(5,1,1,1));
plot(NA,xlim=xlim,ylim=ylim,axes=F,ann=T, xlab = "Evidence in db");
axis(1);
## plot elements
points(px 1,py 1,pch=24,cex=1.5, col="red", bg = par("bg"))
points(px_2,py_2,pch=25,cex=1.5, col="blue")
abline(v=0)
legend("right",border = "white", legend = c("Typist 1 predicted", "Typist 2 predict
ed"),
                             pch = c(24,25), col = c("red","blue"),
       )
```



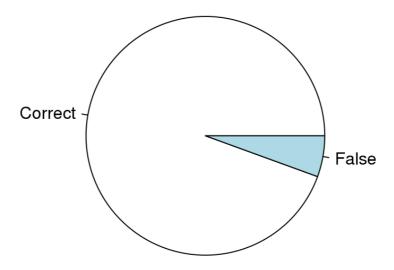
Test 2

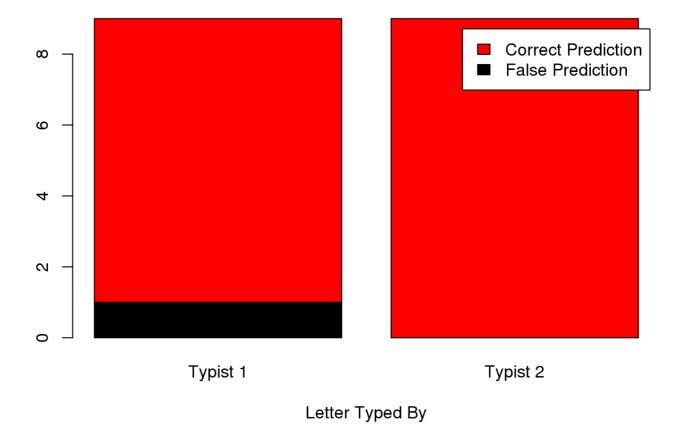
```
test_2 <- read.csv("~/CS-261/Lab-7/Test-2.csv")
```

```
#Pie chart for correct predictions

correct_2 <- table(test_2$Correct)["TRUE"]
false_2 <- table(test_2$Correct)["FALSE"]
slices_2 <- c(correct_2, false_2)
lbls <- c("Correct", "False")
pie(slices_2, labels = lbls, main="Percent of Correct Prediction for Test 2")</pre>
```

Percent of Correct Prediction for Test 2





```
#One dimensional scatter plot
xlim <- c(-1000, 1000);
ylim <- c(0,20);
tbl <- table(test_2$Evidence,test_2$Letter.Typed.By)</pre>
px 1 <- test 2$Evidence[1:9];</pre>
py_1 \leftarrow c(rep(2, length(px_1)))
px_2 <- test_2$Evidence[10:18];</pre>
py_2 \leftarrow c(rep(1, length(px_2)))
lx.buf <- 0;
lx <- seq(xlim[1]+lx.buf,xlim[2]-lx.buf,len=length(px_1));</pre>
1y < -0;
## create basic plot outline
par(xaxs='i',yaxs='i',mar=c(5,1,1,1));
plot(NA,xlim=xlim,ylim=ylim,axes=F,ann=T, xlab = "Evidence in db");
axis(1);
## plot elements
points(px_1,py_1,pch=24,cex=1.5, col="red", bg = par("bg"))
points(px_2,py_2,pch=25,cex=1.5, col="blue")
abline(v=0)
legend("right",border = "white", legend = c("Typist 1 predicted", "Typist 2 predict
ed"),
                             pch = c(24,25), col = c("red","blue"),
       )
```

