\#Plotting characters in an F1-by-F2 vowel space with their Unicode IPA symbols \#(Edited by M. Oxley from M. Scanlon's (?) plot_characters document to include \#Unicode IPA.)
\#Be sure you've set your working directory to wherever you've saved your tab-delimited \#text file containing the vowel data. This document uses vowels.txt from the Socio Lab \#Wiki.)
setwd("C:/Users/Meghan/Documents/R Files")
\#Now read in vowels.txt.
vowels <- read.delim("vowels.txt")
\#Enter F1, F2, and vowel id values.
f1 <-
c(414,566,468,1112,517,737,478,358,343,348,418,553,397,764,421,1145,907,553)
f2 <-
c(1648,2478,669,1560,2051,1731,1656,1381,1246,609,1922,1986,1419,2469,1167,166
3,1639,2431)
vowelsymbol<-
c("u","i","o","ai","lu026A","lu025B","e","ai","lu025B","e","u","e","u","lu00E6","o","lu00E6", "lu00E6","e")
\#Where 026A is the Unicode hex number for $/ \mathrm{I} /$, 025B is the Unicode hex number for $/ \varepsilon /$, \#and 00E6 is the Unicode hex number for $/ æ /$ )
\#You can then do plot (f2, f1) to get a plot with dots for each value plot(f2,f1)
\#or follow that with a text command to tell it to use vowelsymbol instead of dots. Since \#you've already created the plot with points, it will just add Unicode on top of the points.
plot(f2,f1)
text(f2,f1,vowelsymbol)
\#or you can read the f1 and f2 columns in from a tab-delimited text file
setwd([your directory path here])
vowels <- read.delim("vowels.txt")
f1 <- vowels\$f1
f2 <- vowels\$f2
vowelsymbol<-
c("u","i","o","ai","lu026A","lu025B","e","ai","lu025B","e","u","e","u","lu00E6","o","lu00E6", "lu00E6","e")
\#Create plot. xlim and ylim give the ranges for your x and y axes. Type="n" tells R not \#to plot any values yet (so you don't get dots AND vowel symbols at the same time.) plot(f2, f1, xlim=c(2500,500), ylim=c(1200,200), type="n")
\#Now add the Unicode symbols to your plot. text(f2, f1, vowelsymbol)

