```r
#Run to regenerate Dataset
if(FALSE){
cens <- read.csv('usa_00015.csv')
cens$fgen <- cens$BPL %in% 150:900

#Create dummies for kids and immigrant household leaders
cens$uSER <- with(cens, SERIAL*10000 + YEAR)
cens <- cens[cens$GQ %in% 1:2,]
cens$kid <- cens$AGE <= 9
cens$fhos <- cens$fgen * (cens$RELATE %in% 1:2)

#Create a household level aggregate of these dummies
hkey <- aggregate(cbind(kid, fhos) ~ uSER, cens, FUN=sum, na.rm=T)
hkey$HHWT <- cens[match(hkey$uSER, cens$uSER), "HHWT"]
hkey$YEAR <- hkey$uSER %% 10000

#Merge relevant data back into individual level matrix
cens$htkid <- hkey[match(cens$uSER, hkey$uSER), "kid"]
cens$htfhos <- hkey[match(cens$uSER, hkey$uSER), "fhos"]
}

#Set image print location
png('~/public_html/DartmouthShare/p4/Rplot%03d.png')

#Make individual plots for 1900, 1950, 1930
spineplot(prop.table(xtabs(PERWT ~ I(htkid-1) + htfhos,
        cens[with(cens, kid==T & YEAR==1900),]),1),
        ylab="Number of immigrant householder/spouses",
        xlab="Number of children sharing household with the child",
        main="Children in a house, by family immigration status, 1900")

spineplot(prop.table(xtabs(PERWT ~ I(htkid-1) + htfhos,
        cens[with(cens, kid==T & YEAR==1950),]),1),
        ylab="Number of immigrant householder/spouses",
        xlab="Number of children sharing household with the child",
        main="Children in a house, by family immigration status, 1950")

spineplot(prop.table(xtabs(PERWT ~ I(htkid-1) + htfhos,
        cens[with(cens, kid==T & YEAR==1930),]),1),
        ylab="Number of immigrant householder/spouses",
        xlab="Number of children sharing household with the child",
        main="Children in a house, by family immigration status, 1930")

#Make household plots for same years
spineplot(prop.table(xtabs(HHWT ~ kid + fhos, hkey[hkey$YEAR==1900,]),1),
        ylab="Number of immigrant householder/spouses",
        xlab="Number of children in household",
        main="Children in a house, by family immigration status, 1900")

spineplot(prop.table(xtabs(HHWT ~ kid + fhos, hkey[hkey$YEAR==1950,]),1),
        ylab="Number of immigrant householder/spouses",
        xlab="Number of children in household",
        main="Children in a house, by family immigration status, 1950")

spineplot(prop.table(xtabs(HHWT ~ kid + fhos, hkey[hkey$YEAR==1930,]),1),
        ylab="Number of immigrant householder/spouses",
        xlab="Number of children in household",
        main="Children in a house, by family immigration status, 1930")

#Final mosaic plot
plot(xtabs(HHWT ~ kid + fhos, hkey[hkey$YEAR==1900 & hkey$kid <=7,]), main="Households by children and immigrantion, 1900", xlab="Number of c
hildren in household", ylab="Number of immigrant householder/spouses", color=T)

dev.off()
```