

Visualizing the Network

Evan Green

2/21/2017

```
for(i in 1:k_num_psets){
  png(filename = paste("Problem_Set_",i,".png",sep = ""),
       width = 5, height = 5, units = 'in', res = 1000)
  to_exclude <- people_who_dropped
  if(i > 5){
    to_exclude <- grades$code[grades$did_drop_after4]
  }
  plot(graphs[[i]],
       edge.arrow.size=.1,
       edge.width = .4,
       vertex.frame.color=nice_colors[as.numeric(as.factor(V(graphs[[i]]$Sex)))] ,
       vertex.size=grades[!grades$code %in% to_exclude,paste("hw",i,sep="")]/ 9,
       vertex.color=nice_colors[as.numeric(as.factor(V(graphs[[i]]$Sex)))] ,
       vertex.label="", #V(graphs[[i]])$code,
       vertex.label.cex = .4,
       vertex.label.dist = .25,
       main = paste("Problem Set",i),
       layout = layout_with_fr(graphs[[i]]),
       rescale=T)
  legend("topright",col = nice_colors[c(3,2,1)],
        legend = c("M","F","?", "Low Grade", "High Grade"),pch= 16,cex=.56,
        pt.cex = c(1,1,1,.4,1))
  dev.off()
}
```