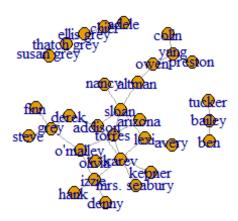
Network analysis

Nir Shchori && Avital Glazer

2016 במאי 9

Network analysis of Grey anatomy

plot(g)



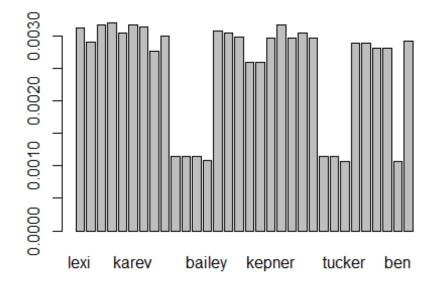
```
b=betweenness(g)
c=closeness(g)
d=degree(g)
e=evcent(g)
#max betweenness
which.max(b)

## sloan
## 3

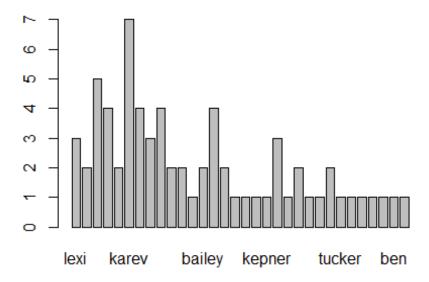
#max closeness
which.max(c)

## torres
## 4
```

barplot(c)



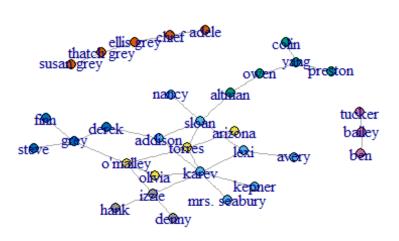
```
#max degree
which.max(d)
## karev
## 6
barplot(d)
```



```
#max Eigencetor
which.max(e$vector)

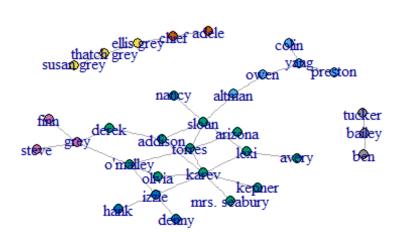
## karev
## 6

# edge betweennes algoritem
fc=edge.betweenness.community(g)
plot(g,vertex.size=6,vertex.color=fc$membership+1,asp=FALSE)
```



```
## Community sizes
## 1 2 3 4 5 6 7
## 8 5 4 4 5 3 3

#walktrap algoritem
ff=walktrap.community(g)
plot(g,vertex.size=6,vertex.color=ff$membership+1,asp=FALSE)
```



```
sizes(ff)
## Community sizes
## 1 2 3 4 5 6 7
## 5 13 3 3 2 3 3
```