Load necessary packages

Define function for later analyses

Load scan method graphs

Wednesday section

Monday section

Load skip method graphs

Wednesday section

Check interrater reliability for 9-18

Check interrater reliability for TA graphs

Analyze evolution of density over time

ADDITIONAL WORK: Reliability of group-level scan method

Generate adjacency matrices from BORIS files

Group-level reliability

TA, Students, and EveryoneTable

Students only

TA -> EveryoneTable <- Students <-> TA

```
g.scan.group.MS.TA_Everyone <-
  subgraph.edges(g.scan.group.MS,
                 as.vector(E(g.scan.group.MS))[E(g.scan.group.MS)
                                               %in% E(g.scan.group.MS)[.inc(c('TA', 'EveryoneTable'))]]

g.scan.group.CW.TA_Everyone <-
  subgraph.edges(g.scan.group.CW,
                 as.vector(E(g.scan.group.CW))[E(g.scan.group.CW)
                                               %in% E(g.scan.group.CW)[.inc(c('TA', 'EveryoneTable'))]]

g.scan.group.DW.TA_Everyone <-
  subgraph.edges(g.scan.group.DW,
                 as.vector(E(g.scan.group.DW))[E(g.scan.group.DW)
                                               %in% E(g.scan.group.DW)[.inc(c('TA', 'EveryoneTable'))]]
```

```
g.scan.group.AH.TA_Everyone <-
  subgraph.edges(g.scan.group.AH,
                 as.vector(E(g.scan.group.AH))[E(g.scan.group.AH)
                                       %in% E(g.scan.group.AH)[.inc(c('TA', 'EveryoneTable'))]])
```

```
print('Lower bound on unweighted/weighted reliability')
```

```
## [1] "Lower bound on unweighted/weighted reliability"
```

```
print('MS-CW')
```

```
## [1] "MS-CW"
```

```
reliability(g.scan.group.MS.TA_Everyone, g.scan.group.CW.TA_Everyone,
            type = 'directed', normalize = TRUE)
```

```
## [1] 0.9523810 0.7589731
```

```
print('MS-DW')
```

```
## [1] "MS-DW"
```

```
reliability(g.scan.group.MS.TA_Everyone, g.scan.group.DW.TA_Everyone,
            type = 'directed', normalize = TRUE)
```

```
## [1] 0.9545455 0.8599179
```

```
print('MS-AH')
```

```
## [1] "MS-AH"
```

```
reliability(g.scan.group.MS.TA_Everyone, g.scan.group.AH.TA_Everyone,
            type = 'directed', normalize = TRUE)
```

```
## [1] 0.6800000 0.5949029
```

```
print('CW-DW')
```

```
## [1] "CW-DW"
```

```
reliability(g.scan.group.CW.TA_Everyone, g.scan.group.DW.TA_Everyone,
            type = 'directed', normalize = TRUE)
```

```
## [1] 0.9090909 0.8252801
```

```r
print('CW-AH')
```

```
## [1] "CW-AH"
```

```r
reliability(g.scan.group.CW.TA_Everyone, g.scan.group.AH.TA_Everyone,
            type = 'directed', normalize = TRUE)
```

```
## [1] 0.7083333 0.5120196
```

```r
print('DW-AH')
```

```
## [1] "DW-AH"
```

```r
reliability(g.scan.group.DW.TA_Everyone, g.scan.group.AH.TA_Everyone,
            type = 'directed', normalize = TRUE)
```

```
## [1] 0.7200000 0.5803808
```

B50 layout test