```
----- Libraries
> install.packages("igraph")
> library(igraph)
> library(ggplot2)
> # ----- Functions
> # Converts an edgelist to a graph
> edge2graph <- function(x,directed=FALSE){</pre>
   if(dim(x)[2]<2) stop("Edgelist must have two columns")</pre>
   el <- as.matrix(x)</pre>
   el[,1] <- as.character(el[,1])</pre>
  el[,2] <- as.character(el[,2])
   return(graph.edgelist(el,directed=directed))
+ }
> # ------ Analysis
>
> data <- read.table("data/cytoscape-network.ssv", header = TRUE, stringsAsFactors = FALSE, sep = " ");
> tail(data) # DEBUG: make sure load whole file
> g$c <- edge2graph(data)</pre>
   graph.edgelist(el, directed=FALSE)
> # Connected Components
> clusters(g$c)$no
> datasummary <- list(graph=c("Cytoscape", "Gephi", "igraph"), clusters=rep(0,3), graph=g_c)</pre>
> dfsummary <- data.frame()</pre>
> df$graph=datasummary$graph
> str(dfsummary)
> temp <- data.frame(degree=degree(g_c), betweenness=betweenness(g_c), closeness=closeness(g_c))
> qplot(closeness, degree, data=subset(temp,degree>1))
> qplot(degree, betweenness,data=subset(temp,degree>1), alpha=I(0.25))
> qplot(graph, clusters, data=datasummary)
> clusters(g_c)$no
> names(clusters(g_c))
```