## Hw 8a

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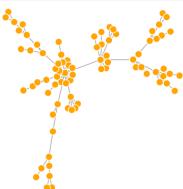
 $Sources:\ http://kateto.net/network-visualization$ 

## Different Approaches with fake data

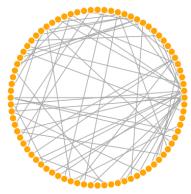
A couple of ways to potentially visualize data: cirlce, and with the Fruchterman-Reingold Algorithm.

I like the FR algo because it offers a nice intuitive understanding of the data.

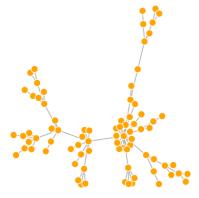
```
#Fake data, trying out different algorithms
net.bg <- sample_pa(80)
V(net.bg)$size <- 8
V(net.bg)$frame.color <- "white"
V(net.bg)$color <- "orange"
V(net.bg)$label <- ""
E(net.bg)$arrow.mode <- 0
plot(net.bg)</pre>
```



```
#circle - kinda hard to see
1 <- layout_in_circle(net.bg)
plot(net.bg, layout=1)</pre>
```



```
#Fruchterman-Reingold: force-directed layout algo
## edges are similar, and cross minimally
### graph as physical system, with electrical repulsion/acting as springs
#non-deterministic
fr <- layout_with_fr(net.bg)
plot(net.bg, layout=fr)</pre>
```



## Plot with Newspaper data

Trying the Newspaper data without any fancy algorithm to sort the information. I just wanted to get a feel for the information. In the dynamic graph, I will try to show how the network evolves over time.

