

# Mini\_project\_3 Wetlands data analysis

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
library(igraph)
library(dplyr)
library(networkD3)
library(network)
library(ggplot2)
setwd("/Users/Yanish/Documents/Fall_2015/Integ_475/mini_project_2/Integ475Project")

network <- read.graph("networks/net.graphml", format = "graphml")
data_wetlands <- read.csv("data/dat.csv")

data <- select(data_wetlands, AF, SO, DT, PU, PI, PY, WC, SC, CL, SP, numAuthors)

glimpse(data)

## Observations: 1,739
## Variables: 11
## $ AF      (fctr) Crigger, DK|Graves, GA|Fike, DL, Drouin, Ariane|Sa...
## $ SO      (fctr) WETLANDS, WETLANDS, ENVIRONMENTAL POLLUTION, WETLA...
## $ DT      (fctr) Article, Article, Article, Article, Article, Artic...
## $ PU      (fctr) SOC WETLAND SCIENTISTS, SPRINGER, ELSEVIER SCI LTD...
## $ PI      (fctr) LAWRENCE, DORDRECHT, OXFORD, DORDRECHT, DORDRECHT, ...
## $ PY      (int) 2005, 2011, 2003, 1996, 2007, 2006, 2009, 2002, 201...
## $ WC      (fctr) Ecology; Environmental Sciences, Ecology; Environm...
## $ SC      (fctr) Environmental Sciences & Ecology, Environmental Sc...
## $ CL      (fctr) , , , , , , , , , , , , , , , , , , , , , , , , , ,
## $ SP      (fctr) , , , , , , , , , , , , , , , , , , , , , , , , ,
## $ numAuthors (fctr) 3, 4, 4, 4, 4, 4, 1, 4, 6, 7, 4, 3, 2, 2, 2, 1, 4, ...
```

```

glimpse(data_wetlands)

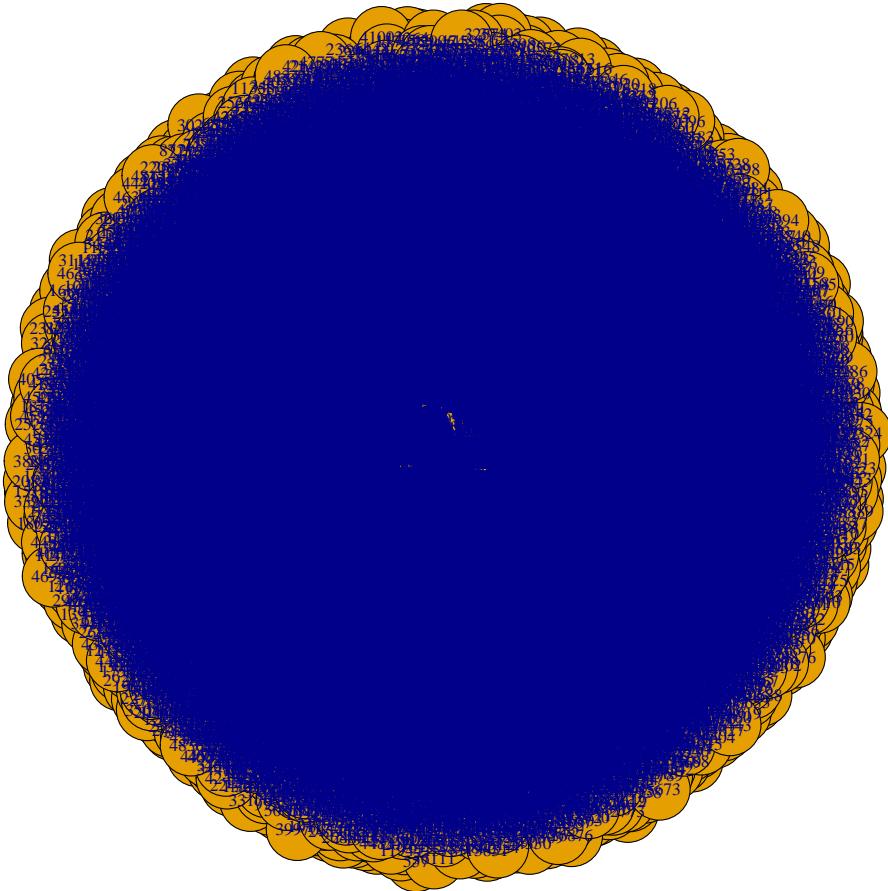
## # Observations: 1,739
## # Variables: 54
## $ UT          (fctr) WOS:000234192800012, WOS:000297864900014, WOS:0001...
## $ PT          (fctr) J, ...
## $ TI          (fctr) Lake Worth Lagoon conceptual ecological model, Hig...
## $ AF          (fctr) Crigger, DK|Graves, GA|Fike, DL, Drouin, Ariane|Sa...
## $ CR          (fctr) McCook LJ, 2001, CORAL REEFS, V19, P400|Valiela I, ...
## $ AU          (fctr) Crigger, DK|Graves, GA|Fike, DL, Drouin, A|Saint-L...
## $ SO          (fctr) WETLANDS, WETLANDS, ENVIRONMENTAL POLLUTION, WETLA...
## $ LA          (fctr) English, English, English, English, English, Engli...
## $ DT          (fctr) Article, Article, Article, Article, Article, Artic...
## $ DE          (fctr) conceptual ecological model; Lake Worth Lagoon; sa...
## $ ID          (fctr) MACROALGAL BLOOMS; CORAL-REEFS; FLORIDA, SEDIMENTA...
## $ AB          (fctr) The Lake Worth Lagoon is a major estuarine water b...
## $ C1          (fctr) Florida Dept Environm Protect, W Palm Beach, FL 33...
## $ RP          (fctr) Crigger, DK (reprint author), Florida Dept Environ...
## $ EM          (fctr) Dianne.Crigger@dep.state.fl.us, diane.saint-lauren...
## $ NR          (int) 47, 42, 24, 65, 59, 49, 40, 33, 39, 27, 59, 56, 0, ...
## $ TC          (int) 2, 6, 3, 21, 4, 82, 11, 10, 1, 22, 7, 3, 63, 22, 31...
## $ Z9          (int) 4, 6, 3, 22, 4, 88, 11, 11, 1, 27, 10, 4, 64, 25, 3...
## $ U1          (int) 4, 4, 0, 3, 2, 4, 2, 1, 7, 4, 3, 8, 3, 5, 0, 4, 1, ...
## $ U2          (int) 8, 15, 2, 15, 4, 34, 21, 3, 32, 32, 24, 29, 6, 19, ...
## $ PU          (fctr) SOC WETLAND SCIENTISTS, SPRINGER, ELSEVIER SCI LTD...
## $ PI          (fctr) LAWRENCE, DORDRECHT, OXFORD, DORDRECHT, DORDRECHT, ...
## $ PA          (fctr) 810 E TENTH ST, P O BOX 1897, LAWRENCE, KS 66044 U...
## $ SN          (fctr) 0277-5212, 0277-5212, 0269-7491, 0277-5212, 0277-5...
## $ J9          (fctr) WETLANDS, WETLANDS, ENVIRON POLLUT, WETLANDS, WETL...
## $ JI          (fctr) Wetlands, Wetlands, Environ. Pollut., Wetlands, We...
## $ PD          (fctr) DEC, DEC, , JUN, DEC, MAR, MAR, SEP, FEB, DEC, APR...
## $ PY          (int) 2005, 2011, 2003, 1996, 2007, 2006, 2009, 2002, 201...
## $ VL          (int) 25, 31, 125, 16, 27, 140, 29, 22, 35, 150, 30, 31, ...
## $ IS          (fctr) 4, 6, 3, 2, 4, 1, 1, 3, 1, 3, 2, 4, 3, 2, 3, 1, 1, ...
## $ BP          (fctr) 943, 1151, 447, 134, 873, 136, 54, 541, 105, 313, ...
## $ EP          (fctr) 954, 1164, 451, 142, 883, 149, 65, 549, 113, 320, ...
## $ DI          (fctr) 10.1672/0277-5212(2005)025[0943:LWLCM]2.0.CO;2, 1...
## $ PG          (int) 12, 14, 5, 9, 11, 14, 12, 9, 9, 8, 11, 12, 12, 18, ...
## $ WC          (fctr) Ecology; Environmental Sciences, Ecology; Environm...
## $ SC          (fctr) Environmental Sciences & Ecology, Environmental Sc...
## $ GA          (fctr) 996RT, 859GM, 705DA, UU259, 238TV, 007GK, 434SN, 6...
## $ FU          (fctr) , Natural Sciences and Engineering Research Counci...
## $ FX          (fctr) , We thank Natural Sciences and Engineering Resear...
## $ PM          (int) NA, NA, 12826422, NA, NA, 16112310, NA, NA, NA, 173...
## $ EI          (fctr) , , , 1943-6246, , , , 1943-6246, , , 1943-6246, ...

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```
## $ RI          (fctr) , , , , , Covaci, Adrian/A-9058-2008, , , Johns, C...
## $ OI          (fctr) , , , , , Covaci, Adrian/0000-0003-0527-1136, , , ...
## $ BE          (fctr) , , , , , , , , , , , , , , , , , , , , , , 
## $ CT          (fctr) , , , , , , , , , , , , , , , , , , , , , , 
## $ CY          (fctr) , , , , , , , , , , , , , , , , , , , , , 
## $ CL          (fctr) , , , , , , , , , , , , , , , , , , , , , 
## $ SP          (fctr) , , , , , , , , , , , , , , , , , , , , , 
## $ HO          (fctr) , , , , , , , , , , , , , , , , , , , , , 
## $ BN          (fctr) , , , , , , , , , , , , , , , , , , , , 
## $ SI          (fctr) , , , , , , , , , , , , , , , , , , , , 
## $ AR          (fctr) , , , , , , , , , , , , , , , , , , , , 
## $ SU          (int) NA, ...
## $ numAuthors  (fctr) 3, 4, 4, 4, 4, 4, 1, 4, 6, 7, 4, 3, 2, 2, 2, 1, 4,...
```

```
View(data_wetlands)
```

```
plot (network)
```



```
##Some text here just to make it seem like there will be text
```

```
  You can also embed plots, for example:
```

```
  Note that the echo = FALSE parameter was added to the code chunk to prevent printing of  
the R code that generated the plot.
```