Full Run

2025-01-30

library(dplyr)

## Warning: package 'dplyr' was built under R version 4.4.2

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

data <- read.csv("Scopus 2023\_24\_v1.csv", stringsAsFactors = FALSE)  
  
class(data$Key)

## [1] "integer"

# Count unique papers  
num\_papers <- n\_distinct(data$Key)  
cat("Number of papers:", num\_papers, "\n")

## Number of papers: 1091

# Split the authors column by ";" and count the number of authors per paper  
data$num\_authors <- sapply(strsplit(data$Author, ";"), length)  
  
all\_authors <- unlist(strsplit(data$Author, ";"))  
  
# Remove any leading or trailing whitespace  
all\_authors <- trimws(all\_authors)  
  
# Count unique authors  
num\_unique\_authors <- length(unique(all\_authors))  
  
# Print the result  
cat("Total number of unique authors:", num\_unique\_authors, "\n")

## Total number of unique authors: 14076

# Calculate the mean (average), median, min, and max number of authors per paper  
avg\_authors <- mean(data$num\_authors) # Average (mean)  
median\_authors <- median(data$num\_authors) # Median  
min\_authors <- min(data$num\_authors) # Minimum  
max\_authors <- max(data$num\_authors) # Maximum  
  
# Print results  
cat("Number of authors per paper:\n")

## Number of authors per paper:

print(data[, c("Key", "num\_authors")]) # Show each paper and its author count

## Key num\_authors  
## 1 1 1099  
## 2 2 15  
## 3 3 6  
## 4 4 5  
## 5 5 6  
## 6 6 8  
## 7 7 16  
## 8 8 24  
## 9 9 7  
## 10 10 7  
## 11 11 12  
## 12 12 16  
## 13 13 8  
## 14 14 14  
## 15 15 17  
## 16 16 19  
## 17 17 58  
## 18 18 11  
## 19 19 2  
## 20 20 3  
## 21 21 4  
## 22 22 2  
## 23 23 4  
## 24 24 3  
## 25 25 2  
## 26 26 11  
## 27 27 4  
## 28 28 9  
## 29 29 6  
## 30 30 15  
## 31 31 6  
## 32 32 538  
## 33 33 8  
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## 35 35 4  
## 36 36 24  
## 37 37 3  
## 38 38 3  
## 39 39 8  
## 40 40 4  
## 41 41 12  
## 42 42 9  
## 43 43 9  
## 44 44 5  
## 45 45 7  
## 46 46 1  
## 47 47 6  
## 48 48 19  
## 49 49 8  
## 50 50 5  
## 51 51 8  
## 52 52 31  
## 53 53 7  
## 54 54 7  
## 55 55 8  
## 56 56 2  
## 57 57 20  
## 58 58 22  
## 59 59 9  
## 60 60 20  
## 61 61 9  
## 62 62 5  
## 63 63 7  
## 64 64 9  
## 65 65 401  
## 66 66 20  
## 67 67 1062  
## 68 68 8  
## 69 69 12  
## 70 70 83  
## 71 71 10  
## 72 72 5  
## 73 73 21  
## 74 74 16  
## 75 75 2  
## 76 76 50  
## 77 77 46  
## 78 78 3  
## 79 79 5  
## 80 80 26  
## 81 81 4  
## 82 82 11  
## 83 83 25  
## 84 84 14  
## 85 85 17  
## 86 86 11  
## 87 87 10  
## 88 88 15  
## 89 89 3  
## 90 90 5  
## 91 91 2  
## 92 92 7  
## 93 93 5  
## 94 94 112  
## 95 95 7  
## 96 96 24  
## 97 97 5  
## 98 98 6  
## 99 99 28  
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## 101 101 11  
## 102 102 12  
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## 128 128 1057  
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## 133 133 35  
## 134 134 21  
## 135 135 9  
## 136 136 11  
## 137 137 5  
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## 139 139 1061  
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## 143 143 7  
## 144 144 73  
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## 207 207 1106  
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## 209 209 1014  
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## 211 211 1069  
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## 216 216 1013  
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## 228 228 1063  
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## 984 984 10  
## 985 985 1  
## 986 986 1  
## 987 987 1  
## 988 988 14  
## 989 989 1  
## 990 990 26  
## 991 991 2  
## 992 992 1  
## 993 993 1  
## 994 994 1  
## 995 995 15  
## 996 996 1103  
## 997 997 1063  
## 998 998 1  
## 999 999 1103  
## 1000 1000 1102  
## 1001 1001 1  
## 1002 1002 1102  
## 1003 1003 1  
## 1004 1004 1  
## 1005 1005 1  
## 1006 1006 1099  
## 1007 1007 1104  
## 1008 1008 1100  
## 1009 1009 1101  
## 1010 1010 4  
## 1011 1011 6  
## 1012 1012 2  
## 1013 1013 7  
## 1014 1014 13  
## 1015 1015 15  
## 1016 1016 7  
## 1017 1017 7  
## 1018 1018 10  
## 1019 1019 5  
## 1020 1020 18  
## 1021 1021 14  
## 1022 1022 22  
## 1023 1023 14  
## 1024 1024 4  
## 1025 1025 1  
## 1026 1026 1080  
## 1027 1027 1111  
## 1028 1028 8  
## 1029 1029 1098  
## 1030 1030 1  
## 1031 1031 1  
## 1032 1032 1  
## 1033 1033 3  
## 1034 1034 17  
## 1035 1035 8  
## 1036 1036 1  
## 1037 1037 8  
## 1038 1038 6  
## 1039 1039 6  
## 1040 1040 11  
## 1041 1041 2  
## 1042 1042 17  
## 1043 1043 5  
## 1044 1044 2  
## 1045 1045 1  
## 1046 1046 1  
## 1047 1047 3  
## 1048 1048 7  
## 1049 1049 12  
## 1050 1050 1  
## 1051 1051 12  
## 1052 1052 7  
## 1053 1053 21  
## 1054 1054 7  
## 1055 1055 16  
## 1056 1056 11  
## 1057 1057 13  
## 1058 1058 1011  
## 1059 1059 1  
## 1060 1060 11  
## 1061 1061 10  
## 1062 1062 3  
## 1063 1063 81  
## 1064 1064 6  
## 1065 1065 2  
## 1066 1066 9  
## 1067 1067 1  
## 1068 1068 1  
## 1069 1069 1  
## 1070 1070 1  
## 1071 1071 1  
## 1072 1072 1  
## 1073 1073 1  
## 1074 1074 1  
## 1075 1075 1  
## 1076 1076 1  
## 1077 1077 1  
## 1078 1078 1  
## 1079 1079 1  
## 1080 1080 1  
## 1081 1081 5  
## 1082 1082 1  
## 1083 1083 1  
## 1084 1084 1  
## 1085 1085 1  
## 1086 1086 1  
## 1087 1087 1  
## 1088 1088 1  
## 1089 1089 1  
## 1090 1090 14  
## 1091 1091 7

cat("\nAverage number of authors per paper:", avg\_authors, "\n")

##   
## Average number of authors per paper: 111.4216

cat("Median number of authors per paper:", median\_authors, "\n")

## Median number of authors per paper: 6

cat("Minimum number of authors per paper:", min\_authors, "\n")

## Minimum number of authors per paper: 0

cat("Maximum number of authors per paper:", max\_authors, "\n")

## Maximum number of authors per paper: 1217

#Switch the CSV file to iGraph file format

library(igraph)

## Warning: package 'igraph' was built under R version 4.4.2

##   
## Attaching package: 'igraph'

## The following objects are masked from 'package:dplyr':  
##   
## as\_data\_frame, groups, union

## The following objects are masked from 'package:stats':  
##   
## decompose, spectrum

## The following object is masked from 'package:base':  
##   
## union

library(statnet)

## Warning: package 'statnet' was built under R version 4.4.2

## Loading required package: tergm

## Warning: package 'tergm' was built under R version 4.4.2

## Loading required package: ergm

## Warning: package 'ergm' was built under R version 4.4.2

## Loading required package: network

## Warning: package 'network' was built under R version 4.4.2

##   
## 'network' 1.19.0 (2024-12-08), part of the Statnet Project  
## \* 'news(package="network")' for changes since last version  
## \* 'citation("network")' for citation information  
## \* 'https://statnet.org' for help, support, and other information

##   
## Attaching package: 'network'

## The following objects are masked from 'package:igraph':  
##   
## %c%, %s%, add.edges, add.vertices, delete.edges, delete.vertices,  
## get.edge.attribute, get.edges, get.vertex.attribute, is.bipartite,  
## is.directed, list.edge.attributes, list.vertex.attributes,  
## set.edge.attribute, set.vertex.attribute

##   
## 'ergm' 4.7.5 (2024-11-06), part of the Statnet Project  
## \* 'news(package="ergm")' for changes since last version  
## \* 'citation("ergm")' for citation information  
## \* 'https://statnet.org' for help, support, and other information

## 'ergm' 4 is a major update that introduces some backwards-incompatible  
## changes. Please type 'news(package="ergm")' for a list of major  
## changes.

## Loading required package: networkDynamic

## Warning: package 'networkDynamic' was built under R version 4.4.2

##   
## 'networkDynamic' 0.11.5 (2024-11-21), part of the Statnet Project  
## \* 'news(package="networkDynamic")' for changes since last version  
## \* 'citation("networkDynamic")' for citation information  
## \* 'https://statnet.org' for help, support, and other information

## Registered S3 method overwritten by 'tergm':  
## method from  
## simulate\_formula.network ergm

##   
## 'tergm' 4.2.1 (2024-10-08), part of the Statnet Project  
## \* 'news(package="tergm")' for changes since last version  
## \* 'citation("tergm")' for citation information  
## \* 'https://statnet.org' for help, support, and other information

##   
## Attaching package: 'tergm'

## The following object is masked from 'package:ergm':  
##   
## snctrl

## Loading required package: ergm.count

## Warning: package 'ergm.count' was built under R version 4.4.2

##   
## 'ergm.count' 4.1.2 (2024-06-15), part of the Statnet Project  
## \* 'news(package="ergm.count")' for changes since last version  
## \* 'citation("ergm.count")' for citation information  
## \* 'https://statnet.org' for help, support, and other information

## Loading required package: sna

## Warning: package 'sna' was built under R version 4.4.2

## Loading required package: statnet.common

## Warning: package 'statnet.common' was built under R version 4.4.2

##   
## Attaching package: 'statnet.common'

## The following object is masked from 'package:ergm':  
##   
## snctrl

## The following objects are masked from 'package:base':  
##   
## attr, order

## sna: Tools for Social Network Analysis  
## Version 2.8 created on 2024-09-07.  
## copyright (c) 2005, Carter T. Butts, University of California-Irvine  
## For citation information, type citation("sna").  
## Type help(package="sna") to get started.

##   
## Attaching package: 'sna'

## The following objects are masked from 'package:igraph':  
##   
## betweenness, bonpow, closeness, components, degree, dyad.census,  
## evcent, hierarchy, is.connected, neighborhood, triad.census

## Loading required package: tsna

## Warning: package 'tsna' was built under R version 4.4.2

##   
## 'statnet' 2019.6 (2019-06-13), part of the Statnet Project  
## \* 'news(package="statnet")' for changes since last version  
## \* 'citation("statnet")' for citation information  
## \* 'https://statnet.org' for help, support, and other information

## unable to reach CRAN

library(intergraph)

## Warning: package 'intergraph' was built under R version 4.4.2

#Filter Datasets by papers which exclude papers with noe author or >= x number of publication here is 2

# Load necessary libraries  
library(dplyr)  
library(tidyverse)

## Warning: package 'stringr' was built under R version 4.4.2

## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
## ✔ forcats 1.0.0 ✔ readr 2.1.5  
## ✔ ggplot2 3.5.1 ✔ stringr 1.5.1  
## ✔ lubridate 1.9.3 ✔ tibble 3.2.1  
## ✔ purrr 1.0.2 ✔ tidyr 1.3.1  
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ lubridate::%--%() masks igraph::%--%()  
## ✖ tibble::as\_data\_frame() masks igraph::as\_data\_frame(), dplyr::as\_data\_frame()  
## ✖ purrr::compose() masks igraph::compose()  
## ✖ tidyr::crossing() masks igraph::crossing()  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()  
## ✖ purrr::simplify() masks igraph::simplify()  
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(igraph)  
  
#filter the papers  
df\_filtered <- data %>%  
 filter(!is.na(Author) & Author != "") %>%  
 mutate(Authors = str\_split(Author, "; ")) %>% #how the authors names are splitted by;  
 filter(map\_int(Authors, length) > 0 & map\_int(Authors, length) <= 50) #remove the papers with no authors or authors above 50   
  
cat("Number of papers remaining after filtering publications ]0,50]:", nrow(df\_filtered), "\n")

## Number of papers remaining after filtering publications ]0,50]: 960

authors\_filtered\_papers <- unlist(df\_filtered$Authors)  
authors\_filtered\_papers <- trimws(authors\_filtered\_papers)  
num\_authors\_filtered\_papers <- length(unique(authors\_filtered\_papers))  
cat("Number of authors in papers with > 0 and <= 50 authors:", num\_authors\_filtered\_papers, "\n")

## Number of authors in papers with > 0 and <= 50 authors: 5272

df\_authors <- df\_filtered %>%  
select(Authors)

#build the graph and net files (filtering the authors per publications= include more than x nummber of publication)

#here i have filtered the authors to exclude any aithors with less than 2 publications in the datasets  
author\_pairs <- df\_authors %>%  
 mutate(pairs = map(Authors, ~ if (length(.x) > 1) combn(.x, 2, simplify = FALSE) else list())) %>%  
 unnest(pairs) %>%  
 unnest\_wider(pairs, names\_sep = "\_") %>%  
 rename(Author1 = pairs\_1, Author2 = pairs\_2) %>%  
 count(Author1, Author2) %>%  
 filter(n >= 2) #you can change the filter here  
  
authors\_with\_2\_plus\_pubs <- unique(c(author\_pairs$Author1, author\_pairs$Author2))  
cat("Number of authors with >= 2 publications:", length(authors\_with\_2\_plus\_pubs), "\n")

## Number of authors with >= 2 publications: 726

edges <- author\_pairs %>%  
 select(Author1, Author2)  
  
# Remove duplicate edges (undirected network)  
edges <- edges %>%  
 distinct(Author1, Author2) %>%  
 filter(Author1 != Author2)  
  
# Create the graph  
institution.graph <- graph\_from\_data\_frame(edges, directed = FALSE)  
  
# Save as Pajek (.net format)  
write\_graph(institution.graph, file = "author\_network.net", format = "pajek")  
  
  
library(intergraph)  
institution.net <- asNetwork(institution.graph) # Convert igraph to network object  
  
#you should modify here to .net or .graph and use .net for the function that require network files and .grah for the function that require igraph files

# 2.2 Extract Vertices from graph  
 V(institution.graph)

## + 726/726 vertices, named, from 49662d8:  
## [1] Abad M.A.   
## [2] Abayzeed S.   
## [3] Abbassi N.-E.-H.   
## [4] Abreu-Goodger C.   
## [5] Achjian R.W.   
## [6] Acker P.   
## [7] Adams I.R.   
## [8] Adoff G.   
## [9] Agmon N.   
## [10] Ahn J.Y.   
## + ... omitted several vertices

# 2.3 Extract Edges from graph  
 E(institution.graph)

## + 2757/2757 edges from 49662d8 (vertex names):  
## [1] Abad M.A. --Jeyaprakash A.A. Abayzeed S. --Barnaveli A.   
## [3] Abayzeed S. --Bocquet L. Abayzeed S. --Dryfe R.A.   
## [5] Abayzeed S. --Faez S. Abayzeed S. --Janardanan A.   
## [7] Abayzeed S. --Jiménez-Ángeles F. Abayzeed S. --Kanoufi F.   
## [9] Abayzeed S. --Levin Y. Abayzeed S. --Marbach S.   
## [11] Abayzeed S. --Robin P. Abayzeed S. --Siwy Z.S.   
## [13] Abayzeed S. --Stein D. Abayzeed S. --Yossifon G.   
## [15] Abayzeed S. --van Roij R. Abbassi N.-E.-H.--Glatt S.   
## [17] Abbassi N.-E.-H.--Hammermeister A. Abbassi N.-E.-H.--Rappsilber J.   
## [19] Abbassi N.-E.-H.--Schaffrath R. Abreu-Goodger C.--Buck A.H.   
## + ... omitted several edges

# 3. Calculate Network Descriptives

# Some functions have the same names in statnet and igraph, so we detach igraph to use statnet functions  
   
detach(package:igraph)  
  
library(statnet)

# 3.1 Describing the network data:

class(institution.graph)

## [1] "igraph"

library(igraph)

## Warning: package 'igraph' was built under R version 4.4.2

##   
## Attaching package: 'igraph'

## The following objects are masked from 'package:lubridate':  
##   
## %--%, union

## The following objects are masked from 'package:purrr':  
##   
## compose, simplify

## The following object is masked from 'package:tidyr':  
##   
## crossing

## The following object is masked from 'package:tibble':  
##   
## as\_data\_frame

## The following objects are masked from 'package:sna':  
##   
## betweenness, bonpow, closeness, components, degree, dyad.census,  
## evcent, hierarchy, is.connected, neighborhood, triad.census

## The following objects are masked from 'package:network':  
##   
## %c%, %s%, add.edges, add.vertices, delete.edges, delete.vertices,  
## get.edge.attribute, get.edges, get.vertex.attribute, is.bipartite,  
## is.directed, list.edge.attributes, list.vertex.attributes,  
## set.edge.attribute, set.vertex.attribute

## The following objects are masked from 'package:dplyr':  
##   
## as\_data\_frame, groups, union

## The following objects are masked from 'package:stats':  
##   
## decompose, spectrum

## The following object is masked from 'package:base':  
##   
## union

is\_directed(institution.graph) # Check if the graph is directed

## [1] FALSE

is\_weighted(institution.graph)

## [1] FALSE

##What the information reflects:  
###Is the Network Directed (is.directed(institution.graph)):  
####Possible Outcomes:  
#####TRUE: The network is directed, meaning edges have a direction (e.g., A → B but not necessarily B → A). Examples include citation networks or hierarchical structures.  
#####FALSE: The network is undirected, meaning edges are bidirectional (e.g., co-authorship networks where relationships are mutual).  
#Current Outcome: FALSE: The network is undirected, meaning all connections are mutual. This is typical in co-authorship or collaboration networks.  
  
###Is the Network Weighted (is.weighted(institution.graph)):  
####Possible Outcomes:  
#####TRUE: Edges have weights representing the strength or frequency of connections (e.g., the number of co-authored papers).  
#####FALSE: Edges are unweighted and represent only the presence or absence of connections.  
  
#Current Outcome: TRUE: The network is weighted, meaning that connections vary in strength or intensity. For instance, institutions that collaborate on more projects will have higher weights.

#3.2 Exploring network cohesion

library(intergraph)  
  
# 3.2 Exploring network cohesion  
 # basic exploration of networks  
library(statnet)  
 network.dyadcount(institution.net) # How many dyads? (n\*n-1)

## [1] 263175

#Dyads are pairs of nodes.This value represents all possible pairs of nodes in the network, calculated as (n\*n-1)  
   
 network.edgecount(institution.net) # How many edges?

## [1] 2757

#This is the count of actual connections (edges) present in the network, indicating how interconnected the nodes are.  
   
 network.size(institution.net) # How large is the network?

## [1] 726

#This is the number of nodes (vertices) in the network, representing the total entities (e.g., authors, institutions) being analyzed.

# 3.3 Density, reciprocity & transitiviy

gden(institution.net) # Density

## [1] 0.01047592

#Density measures the proportion of realized connections compared to all possible connections. It is calculated as:  
#Density=Number of Edges/(Number of Possible Edges)=Edges/[n×(n−1)/2]  
#Network density measures how connected the network is.   
##Values range from 0 to 1. #High Density: Close to 1, meaning most nodes are connected. This indicates a highly cohesive network. # Low Density: Close to 0, meaning most nodes are not connected. Sparse networks are common in real-world systems.   
  
#A density of ~4.25% indicates that only a small fraction of all possible connections (edges) are present in the network. This is typical for real-world networks, which are often sparse.  
  
institution.graph <- simplify(institution.graph, remove.multiple = TRUE, remove.loops = TRUE)  
  
# Convert to network object  
institution.net <- asNetwork(institution.graph)  
  
gtrans(institution.net) # Transitivity

## [1] 0.8915747

#ransitivity, or the clustering coefficient, measures the tendency of nodes to form triangles (e.g., if A → B and B → C, then A → C). It is calculated as:  
#Transitivity=Number of Triangles/Number of Connected Triplets  
#i.e., if two nodes are connected to a common third node, they are also likely to be connected to each other   
  
#A value of ~64% indicates a high level of clustering in the network.  
  
 grecip(institution.net) # Dyadic reciprocity / Relevant for directed networks, e.g.: co-citations (not this case, but useful to know)

## Mut   
## 1

#This metric is not meaningful here as the network is undirected, meaning all edges are inherently reciprocal. However, this shows that any directed analysis would indicate full reciprocity.  
   
###Possible outcomes:  
#High Reciprocity (close to 1): Indicates strong mutual relationships between nodes. Common in social networks where relationships like friendships or collaborations are mutual.[Irrelevant Measure: In an undirected network, connections do not have a direction (e.g., if A is connected to B, then B is also connected to A by definition). This makes reciprocity meaningless or always trivially equal to 1.]  
#Low Reciprocity (close to 0): Indicates unidirectional relationships dominate. Examples include hierarchical structures like citation networks or supply chains.  
 #[If Your Network Were Directed Reciprocity Could Indicate: How collaborative the network is. For example, in a directed co-authorship network, it shows whether contributions are mutual or one-sided.The level of symmetry in relationships, such as mutual citations in a citation network.]  
   
 grecip(institution.net, measure="edgewise") # Edgewise reciprocity / Idem: directed networks

## Mut   
## 1

# This confirms that all edges are reciprocated, as expected in an undirected network.

# 4. Node Centrality and Centralization

# 4.1 Degree centrality

# Raw degree centrality (igraph)  
degree\_centrality <- degree(institution.graph)  
  
# Normalized degree centrality  
degree\_norm <- degree\_centrality / (vcount(institution.graph) - 1) # vcount() gives the number of vertices  
  
# Summary of raw degree centrality  
summary(degree\_centrality)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1.00 1.00 3.00 7.54 9.00 64.00

# Indegree and Outdegree (not relevant for undirected networks, but useful to know)  
indeg <- degree(institution.graph, mode = "in") # For directed graphs  
outdeg <- degree(institution.graph, mode = "out") # For directed graphs  
  
##Interpretation  
###Degree centrality measures how many direct connections each node has in the network.  
#Min (1): The least connected node has 1 connection.  
#Max (147): The most connected node has 147 connections, meaning this node is highly influential in the network.  
#Mean (16.88): On average, nodes have about 17 connections.  
#Median (12): Half of the nodes have more than 12 connections, and the other half have fewer.

#4.2 Betweenness Centrality

bet <- betweenness(institution.graph)  
summary(bet)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.00 0.00 0.00 68.90 0.25 9175.84

#What It Means:  
#Betweenness centrality measures how often a node acts as a bridge between other nodes in the shortest paths.  
#Min (0): Some nodes do not act as bridges at all.  
#Max (17873.587): The node with the highest value is a critical bridge in the network, controlling the flow of information.  
#Mean (351.841): The average betweenness centrality is skewed by a few nodes with very high values.

#4.3 Closeness Centrality

clo <- closeness(institution.graph)  
summary(clo)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0008873 0.0076336 0.0345238 0.1623288 0.1428571 1.0000000

#What It Means:  
#Closeness centrality measures how quickly a node can access other nodes in the network.  
#Min (0.0005149): The least central node has a very long average path to reach other nodes.  
#Max (1.0000000): The most central node can reach every other node most efficiently.  
#Mean (0.0128052): The average closeness is very low, indicating a relatively sparse or disconnected network

#4.4 Centralization

# Now, you can calculate centralization  
library(statnet)  
degree\_centrality <- degree(institution.graph)  
betweenness\_centrality <- betweenness(institution.graph)  
closeness\_centrality <- closeness(institution.graph)

#4.5 Table of Centrality Scores

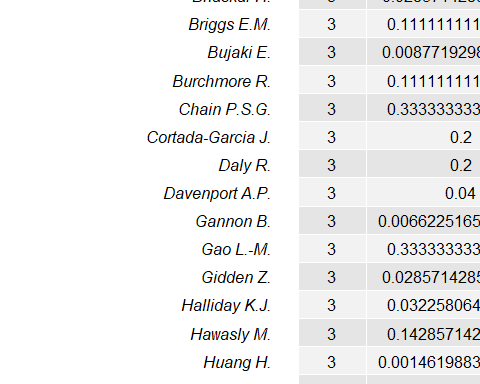
Institution\_centrality.df <- data.frame(  
 degree = degree(institution.graph),  
 closeness = closeness(institution.graph),  
 betweenness = betweenness(institution.graph)  
)  
  
Institution\_centrality.df.sorted <- Institution\_centrality.df[order(-Institution\_centrality.df$degree),]  
library(gridExtra)

## Warning: package 'gridExtra' was built under R version 4.4.2

##   
## Attaching package: 'gridExtra'

## The following object is masked from 'package:dplyr':  
##   
## combine

grid.table(Institution\_centrality.df.sorted)



print(Institution\_centrality.df.sorted)

## degree  
## Daunt F. 64  
## Bogdanova M.I. 48  
## Kim S. 48  
## Bolton M. 47  
## Arnould J.P.Y. 45  
## Beal M. 45  
## Carneiro A.P.B. 45  
## Catry P. 45  
## Clatterbuck C. 45  
## Conners M. 45  
## Delord K. 45  
## Elliott K. 45  
## Fromant A. 45  
## Granadeiro J.P. 45  
## Green J.A. 45  
## Hamer K.C. 45  
## Ito M. 45  
## Jeavons R. 45  
## Kim J.-H. 45  
## Kokubun N. 45  
## Koyama S. 45  
## Lane J.V. 45  
## Lee W.Y. 45  
## Matsumoto S. 45  
## Oppel S. 45  
## Orben R.A. 45  
## Owen E. 45  
## Paiva V.H. 45  
## Patterson A. 45  
## Phillips R.A. 45  
## Pollock C.J. 45  
## Ramos J.A. 45  
## Sagar P. 45  
## Sato K. 45  
## Shaffer S.A. 45  
## Soanes L. 45  
## Takahashi A. 45  
## Thompson D.R. 45  
## Thorne L. 45  
## Torres L. 45  
## Watanuki Y. 45  
## Waugh S.M. 45  
## Weimerskirch H. 45  
## Whelan S. 45  
## Xavier J.C. 45  
## Yoda K. 45  
## Dias M.P. 45  
## Wang Y. 38  
## Boeke J.D. 30  
## Cai Y. 26  
## Rappsilber J. 26  
## Zou J. 26  
## Bocquet L. 25  
## Janardanan A. 25  
## Jiménez-Ángeles F. 25  
## Kanoufi F. 25  
## Levin Y. 25  
## Marbach S. 25  
## Robin P. 25  
## Siwy Z.S. 25  
## Stein D. 25  
## Yossifon G. 25  
## van Roij R. 25  
## Diallo A. 22  
## Bader J.S. 18  
## Cai J. 18  
## Rambaut A. 18  
## Holm C. 16  
## Horrocks M.H. 16  
## Johnson R. 16  
## Perkin S. 16  
## Pireddu G. 16  
## Rotenberg B. 16  
## Valtiner M. 16  
## Bazant M.Z. 15  
## Harris M.P. 15  
## Kamsma T.M. 15  
## Kornyshev A.A. 15  
## Lemay S.G. 15  
## Loake G.J. 15  
## Zhao Y. 15  
## Zhang Y. 15  
## Abayzeed S. 14  
## Barnaveli A. 14  
## Blaxter M. 14  
## Dai J. 14  
## Davies J.A. 14  
## Dryfe R.A. 14  
## Faez S. 14  
## Ye J.-H. 14  
## Alexander S.P.H. 13  
## Stracquadanio G. 13  
## Wanless S. 13  
## Wondji C.S. 13  
## Airey G. 12  
## Armstrong J.F. 12  
## Broad G. 12  
## Child H.T. 12  
## Durbin R. 12  
## Evens N. 12  
## Gaya E. 12  
## Hart M. 12  
## He K. 12  
## Hearn J. 12  
## Hollingsworth P. 12  
## Jeffries A.R. 12  
## Kersey P. 12  
## Lawniczak M. 12  
## Maloney D.M. 12  
## McGinley S. 12  
## Mieszkowska N. 12  
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## O’Toole Á. 0.0000000  
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## Robert A. 0.0000000  
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## Walls L.E. 0.0000000  
## Watson C.H. 0.0000000  
## White M.F.M. 0.0000000  
## Williams T.N. 0.0000000  
## Wilson J.M. 0.0000000  
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## Zamoyska R. 0.0000000  
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## White I. 0.0000000  
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## Grima R. 0.0000000  
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## Chen T. 0.0000000  
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## Kocot K.M. 0.0000000  
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## Ma P. 0.0000000  
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## Wang J. 0.0000000  
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## Ye X. 0.0000000  
## Zhang G. 0.0000000  
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## Zheng J. 0.0000000  
## Wallace S. 0.0000000  
## Alexandra Rowe J. 0.0000000  
## Liu Y.-H. 0.0000000  
## Marland J.R.K. 0.0000000  
## Liu Y. 0.0000000

# Save the sorted table to a CSV file  
write.csv(Institution\_centrality.df.sorted, file = "institution\_centrality\_data.csv", row.names = TRUE)  
  
  
#Nodes with higher degree centrality (e.g., "ghazal, p." with 147 connections) are likely to be influential or well-connected individuals/entities.[This can indicate hubs or key players in the network.]  
#Nodes with high betweenness (like "millar, a. j." with 17873.9 betweeness score) are critical connectors in the network. Removing them could significantly disrupt the flow of information.  
#Nodes with high closeness centrality are in advantageous positions to disseminate information quickly.

# 5. Community (cohesive subgroups) detection

#5.1 Connectivity: #5.1.1 Strong/week Connection

# Check if the network is strongly connected  
is\_connected(institution.graph) # graph

## [1] FALSE

#This function checks if the network is strongly connected. A network is strongly connected if there is a path from any node to every other node, meaning every node can reach every other node directly or through other nodes.  
##Interpretation:  
###The result FALSE means that the network is not strongly connected. There are one or more nodes in the network that cannot be reached from others. Essentially, there are disconnected components in the network, where some nodes are isolated from others or not reachable by any path.  
###Possibility: If you had a strongly connected network, the result would be TRUE, indicating that all nodes in the network are reachable from each other, forming a single cohesive structure.  
  
# Check if the network is weakly connected  
is\_connected(institution.graph, mode = "weak") # graph

## [1] FALSE

#This function checks if the network is weakly connected. A network is weakly connected if, by ignoring the direction of edges (in the case of a directed graph), there is a path between every pair of nodes. This means if we reverse all edges, is the network still connected?  
  
###Interpretation:  
####The result FALSE here means that the network is also not weakly connected. There are still some disconnected components, even when ignoring the direction of the edges.  
####Possibility: If the network were weakly connected, you would see TRUE, indicating that all nodes in the network are part of one large connected group, if we consider the edges to be undirected.

#5.1.2 the geodesic distance (shortest path)

# Get information on geodesics (shortest paths) between all pairs of nodes  
geodist(institution.net) # graph

## $counts  
## [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]  
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## [3,] 1 0 1 0 0 0 0 2 2 2 0 0 0  
## [4,] 0 0 0 1 0 0 0 0 0 0 0 0 0  
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## [17,] 2 0 2 0 0 0 0 1 1 1 0 0 0  
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## [36,] 1 0 1 0 0 0 0 2 2 2 0 0 0  
## [37,] 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [38,] 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [39,] 0 0 0 0 0 3 0 0 0 0 0 0 0  
## [40,] 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [41,] 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [42,] 2 0 2 0 0 0 0 1 1 1 0 0 0  
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## [46,] 0 1 0 0 0 0 0 0 0 0 0 0 0  
## [47,] 1 0 1 0 0 0 0 1 1 1 0 0 0  
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## [ reached getOption("max.print") -- omitted 589 rows ]

# This function calculates the geodesic distance (shortest path) between every pair of nodes in the network. The geodesic distance is the smallest number of steps (edges) needed to travel from one node to another.  
#f the network was connected, this matrix would show finite distances between all nodes. If the network is disconnected, some distances would be infinite (Inf) because no path exists between those nodes.  
#Geodist helps you understand how far apart nodes are in terms of the number of edges, and whether any nodes are unreachable from others.  
  
# Calculate the shortest path between all pairs of nodes  
shortest\_paths <- distances(institution.graph)  
  
# Print the shortest paths matrix  
#shortest\_paths  
  
##The shortest path matrix will have values like 0 (a node to itself), values between nodes that indicate how far apart they are, and Inf for nodes that are not connected.  
  
  
# Find the longest shortest path  
longest\_shortest\_path <- max(shortest\_paths[shortest\_paths != Inf])  
  
# Print the longest shortest path  
#longest\_shortest\_path  
  
##The longest shortest path helps you understand the "diameter" of the network.  
  
# Calculate the average shortest path length  
average\_shortest\_path <- mean(shortest\_paths[shortest\_paths != Inf])  
  
# Print the average shortest path length  
cat("Network diameter (average shortest path):", average\_shortest\_path, "\n")

## Network diameter (average shortest path): 3.471727

#The average shortest path length tells you how efficiently information can be spread in the network.  
  
  
net\_diameter <- diameter(institution.graph, directed = FALSE, weights = NA)  
cat("Network diameter (longest shortest path):", net\_diameter, "\n")

## Network diameter (longest shortest path): 9

#5.1.3 reachability between pairs

reachability\_matrix <- reachability(institution.net)  
  
# Print the reachability matrix to see which nodes can reach others  
#print(reachability\_matrix)  
  
# Get the number of nodes (N)  
num\_nodes <- nrow(reachability\_matrix)  
  
# Total number of possible pairs (excluding self-pairs)  
total\_pairs <- num\_nodes \* (num\_nodes - 1)  
  
# Count the number of unreachable pairs by excluding the diagonal (self-reachability)  
num\_unreachable\_pairs <- sum(reachability\_matrix == 0) - num\_nodes  
  
# Calculate the percentage of unreachable pairs  
unreachable\_percentage <- (num\_unreachable\_pairs / total\_pairs) \* 100  
  
# Print the percentage of unreachable pairs  
print(paste("Percentage of unreachable pairs:", round(unreachable\_percentage, 2), "%"))

## [1] "Percentage of unreachable pairs: 92.37 %"

#This function calculates the reachability matrix, which tells you which nodes can reach other nodes (i.e., which nodes are accessible from other nodes). A value of TRUE means one node can reach another, and FALSE means it cannot.  
#Reachability shows you whether one node can access another, regardless of the path length.

library(sna)

# 5.2 Several ways to detect relatively cohesive groups

#First kno these terms:  
  
#Clique is a subset of vertices (nodes) in a graph such that every two distinct vertices in the clique are adjacent, meaning there is an edge between every pair of nodes within that subset. Essentially, it is a completely connected subset of nodes.  
#Types of Cliques:  
##Maximal Clique: A clique that cannot be expanded by adding any adjacent vertex from the graph. It is not necessarily the largest clique in the graph, but it's the largest clique you can get from that subset.  
###Maximum Clique: A clique that contains the most nodes in the entire graph. It's the "biggest" clique, unlike the maximal clique, which refers to the largest possible clique in a particular subset, not necessarily the whole graph.  
#####################################  
  
# A maximal clique is a subgroup of nodes where every pair of nodes is directly connected, and it is "maximal" in the sense that no additional nodes can be added to the group without breaking this property.  
clique\_count <- clique.census(institution.net) #printing this will give you the metrix of the network which usually hard to interpret if you have a lot of nodes in your network  
  
# Extract the frequency of clique sizes (this will be a numeric vector)  
clique\_frequencies <- clique\_count[[1]] # The first part of the list contains the frequencies  
  
# Find the size of the largest clique (the size with the highest count)  
max\_clique\_size <- which.max(clique\_frequencies) # This returns the index of the largest clique size  
cat("The largest clique in the network has", max\_clique\_size, "nodes.\n")

## The largest clique in the network has 2 nodes.

##interpretation:   
###If it prints 5 nodes, that means cliques of size 5 nodes are the most common in your network, i.e., there are the most cliques of 5 nodes connected in a fully connected subgraph.  
  
#######Then  
# Maximal cliques with no enumeration (only a count of cliques)  
clique.census(institution.net, tabulate.by.vertex = FALSE, enumerate = FALSE)

## $clique.count  
## 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20   
## 0 205 54 49 34 13 10 15 1 1 2 1 2 0 1 1 1 0 0 0   
## 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40   
## 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   
## 41 42 43 44 45 46   
## 0 0 0 0 0 1

#this code will return a summary of the clique counts for each clique size in the network, but it does not enumerate the specific nodes within each clique. It will give you the number of cliques of each size.  
  
##Interpretation:   
####This means: There is 1 clique with 28 nodes, 0 cliques with 29 nodes, and so on.  
####If you have many cliques with a small number of nodes (like 2 or 3), this suggests that your network has many smaller tightly connected groups, whereas if you have cliques with more nodes (e.g., 15+), it suggests that the network has a few large, tightly connected groups.

#Break the functions:  
##A k-core is a subgraph of the network where each node in that subgraph has at least k neighbors within the same subgraph. Essentially, it's a way to find the "core" of the network where nodes are well-connected.  
##In simpler terms, k-cores help identify tightly-knit clusters within a network, where each node has sufficient connections to others in that cluster. The concept is useful for identifying dense parts of the network.  
  
  
# Detect k-cores, subgraphs where each node has at least 'k' neighbors  
kcore\_result <- kcores(institution.net)  
#if you print this you will get a number for each node in your network indicate the connection with the neighbors not its subgroups  
  
#####Interpretation:  
####A high k-core (e.g., 15-core) suggests a central and cohesive group in the network where all members are well-connected.  
####A network with several small k-cores might indicate that there are pockets of highly connected subgroups, but they may not be highly connected to other parts of the network.  
####The numbers will vary depending on your network, but in general, you can expect fewer nodes as the k-value increases (since it's harder for nodes to have more neighbors the higher k gets).  
  
##To get the useful information:  
  
# Find the lowest and highest k-core values  
min\_kcore <- min(kcore\_result)  
max\_kcore <- max(kcore\_result)  
  
# Calculate the average k-core value  
average\_kcore <- mean(kcore\_result)  
  
# Get the top 10 nodes (nodes with the highest k-core values)  
top\_10\_nodes <- sort(kcore\_result, decreasing = TRUE)[1:10]  
  
# Print results  
cat("Lowest k-core value:", min\_kcore, "\n")

## Lowest k-core value: 2

cat("Highest k-core value:", max\_kcore, "\n")

## Highest k-core value: 90

cat("Average k-core value:", average\_kcore, "\n")

## Average k-core value: 13.07713

cat("Top 10 nodes:", top\_10\_nodes, "\n")

## Top 10 nodes: 90 90 90 90 90 90 90 90 90 90

#to get the names of teh top 20 nodes:  
# Perform k-core decomposition  
kcore\_result <- kcores(institution.net)  
  
# Get the names of the nodes (assuming the node names are stored as 'vertex names')  
node\_names <- V(institution.graph)$name  
  
# Combine k-core values and node names into a data frame  
kcore\_df <- data.frame(node = node\_names, kcore = kcore\_result)  
  
# Sort the data frame by k-core values in descending order  
sorted\_kcore\_df <- kcore\_df[order(-kcore\_df$kcore), ]  
  
# Get the top 20 nodes with the highest k-core values  
top\_20\_nodes <- head(sorted\_kcore\_df, 20)  
  
# Print the top 20 nodes  
print(top\_20\_nodes)

## node kcore  
## Arnould J.P.Y. Arnould J.P.Y. 90  
## Beal M. Beal M. 90  
## Bogdanova M.I. Bogdanova M.I. 90  
## Bolton M. Bolton M. 90  
## Carneiro A.P.B. Carneiro A.P.B. 90  
## Catry P. Catry P. 90  
## Clatterbuck C. Clatterbuck C. 90  
## Conners M. Conners M. 90  
## Daunt F. Daunt F. 90  
## Delord K. Delord K. 90  
## Elliott K. Elliott K. 90  
## Fromant A. Fromant A. 90  
## Granadeiro J.P. Granadeiro J.P. 90  
## Green J.A. Green J.A. 90  
## Hamer K.C. Hamer K.C. 90  
## Ito M. Ito M. 90  
## Jeavons R. Jeavons R. 90  
## Kim J.-H. Kim J.-H. 90  
## Kokubun N. Kokubun N. 90  
## Koyama S. Koyama S. 90

#5.3 Show the Nesting of Cores

# 5.3 Show the nesting of cores  
  
# Compute k-cores using indegree  
kc <- kcores(institution.net, cmode = "indegree")  
  
# Plot the graph with nodes colored according to their k-core membership  
gplot(institution.net, displaylabels = TRUE, vertex.col = rainbow(max(kc) + 1)[kc + 1])



#Visualizing k-core membership allows for an intuitive representation of how tightly knit different parts of the network are. It can also help reveal clusters or communities in the network.  
  
# Showing only the 2-core (k-core with degree > 1)  
gplot(institution.net[kc > 1, kc > 1], displaylabels = TRUE, vertex.col = rainbow(max(kc) + 1)[kc[kc > 1] + 1])



#Focusing on the 2-core provides insights into the core structure of the network, highlighting the most connected and robust components.  
  
####Note; VOSviewers provide better visualisation - So you can skip this

#Step 5.4: Find and Visualize the Largest Component

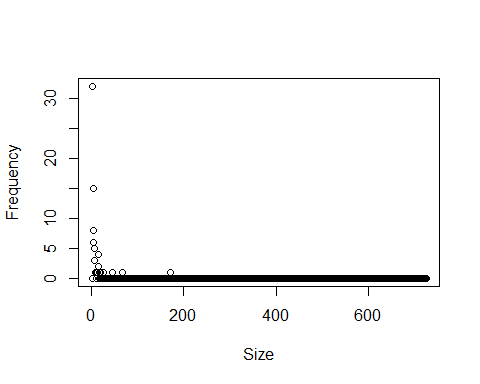
library(intergraph)  
# Get the strong components of the network  
components(institution.graph)

## $membership  
## Abad M.A.   
## 1   
## Abayzeed S.   
## 2   
## Abbassi N.-E.-H.   
## 1   
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## Ross L.   
## 15   
## Pusey R.   
## 16   
## Menolascina F.   
## 18   
## Meng L.-S.   
## 1   
## Zhang Y.   
## 2   
## Denholm B.   
## 19   
## Fry S.C.   
## 20   
## Cirillo J.D.   
## 21   
## McCulloch R.   
## 23   
## Rybtsov S.   
## 24   
## Regan L.   
## 17   
## Barnes I.   
## 25   
## Ellis T.   
## 1   
## Osman A.M.   
## 26   
## Else K.J.   
## 22   
## Berg P.   
## 27   
## Stevens M.P.   
## 28   
## Pollard S.M.   
## 29   
## Jay P.   
## 27   
## Maizels R.M.   
## 27   
## Twyford A.D.   
## 30   
## Wang B.   
## 31   
## Salmond R.J.   
## 32   
## Zamoyska R.   
## 32   
## Wilson M.D.   
## 34   
## Ramamoorthy S.   
## 35   
## Decho A.W.   
## 36   
## Donachie S.P.   
## 36   
## Jensen J.D.   
## 37   
## Hastings A.   
## 38   
## Chen X.   
## 39   
## Zhang J.-J.   
## 1   
## Uhlmann F.   
## 1   
## Marteinsson V.Þ.   
## 40   
## Bessone L.   
## 41   
## Pujade-Villar J.   
## 42   
## Erduran S.   
## 43   
## Masden E.   
## 5   
## Hardwick K.G.   
## 44   
## Carragher N.O.   
## 45   
## Ralser M.   
## 46   
## Hutchinson E.   
## 47   
## Caroll M.W.   
## 9   
## Edmunds W.J.   
## 9   
## Eggo R.M.   
## 9   
## Henao-Restrepo A.M.   
## 9   
## Hué S.   
## 9   
## Senn H.V.   
## 16   
## Campopiano D.J.   
## 48   
## Ziegelbauer J.M.   
## 49   
## Dupont C.L.   
## 51   
## Wondji C.S.   
## 52   
## Hart M.L.   
## 53   
## Michieletto D.   
## 54   
## Adetifa I.   
## 9   
## Milne R.I.   
## 55   
## White I.   
## 56   
## Medvinsky A.   
## 57   
## Spagnolo L.   
## 58   
## White M.F.   
## 58   
## Anderson R.A.   
## 59   
## MacDonald A.S.   
## 60   
## Chi Y.R.   
## 1   
## Mduluza T.   
## 61   
## Kosinski J.   
## 1   
## Kang M.   
## 62   
## Hochwagen A.   
## 1   
## Kaback D.B.   
## 1   
## Lim H.S.   
## 1   
## Meyer L.   
## 1   
## Moyer A.   
## 1   
## Murphy N.A.   
## 1   
## Natov P.   
## 1   
## Radley A.   
## 1   
## Scheifele L.   
## 1   
## Tripathy A.   
## 1   
## Vergara Greeno R.   
## 1   
## Wang T.   
## 1   
## Wilkerson N.   
## 1   
## Zeller K.   
## 1   
## Zheng T.   
## 1   
## Zhou V.   
## 1   
## Essl F.   
## 63   
## Zhang H.-J.   
## 1   
## Zhu C.   
## 64   
## Meng F.   
## 1   
## Smith H.   
## 22   
## Greenleaf W.J.   
## 65   
## Skotheim J.M.   
## 65   
## Mallon E.B.   
## 15   
## Blay V.   
## 66   
## Houston D.R.   
## 66   
## Welburn J.P.I.   
## 67   
## Allen R.J.   
## 68   
## Oyarzún D.A.   
## 69   
## Halim M.   
## 50   
## Vale P.F.   
## 70   
## Bukania Z.   
## 26   
## Jost C.   
## 26   
## Kimani I.   
## 26   
## Woolhouse M.   
## 61   
## Bett B.   
## 26   
## Möller M.   
## 71   
## Froy H.   
## 27   
## Darwin Tree of Life Consortium.   
## 72   
## Spoel S.H.   
## 73   
## Kruuk L.E.B.   
## 74   
## Auer M.   
## 75   
## Pybus O.G.   
## 9   
## Zuk M.   
## 76   
## Gregory J.M.   
## 77   
## Betancor L.   
## 50   
## Quiñones W.   
## 4   
## Blackburn C.C.   
## 78   
## Bradley M.   
## 79   
## Vagnarelli P.   
## 80   
## Giorgio-Serchi F.   
## 33   
## Bayne E.H.   
## 81   
## Cowan G.   
## 82   
## Grima R.   
## 83   
## Odey Y.L.   
## 59   
## Tyers M.   
## 84   
## Vervelde L.   
## 28   
## Chen S.   
## 1   
## Chen T.   
## 1   
## Deng Y.   
## 1   
## Ding W.   
## 1   
## Fu X.   
## 1   
## Gong J.   
## 1   
## Kocot K.M.   
## 1   
## Lin T.   
## 1   
## Ma P.   
## 1   
## Mitchell L.   
## 1   
## Obbard D.J.   
## 1   
## Shen X.   
## 1   
## Vinther J.   
## 1   
## Wang H.   
## 1   
## Wang J.   
## 1   
## Yang H.   
## 1   
## Ye X.   
## 1   
## Zhang G.   
## 1   
## Zhao H.   
## 1   
## Zheng J.   
## 1   
## Wallace S.   
## 85   
## Alexandra Rowe J.   
## 86   
## Liu Y.-H.   
## 1   
## Marland J.R.K.   
## 87   
## Liu Y.   
## 1   
##   
## $csize  
## [1] 171 26 2 14 67 3 13 8 46 15 2 5 6 7 14 5 20 2 2  
## [20] 3 5 10 7 2 15 14 18 6 2 3 5 3 4 2 6 4 2 2  
## [39] 2 5 12 5 2 2 4 7 6 2 6 16 2 14 3 2 4 2 2  
## [58] 3 5 2 9 3 3 2 4 3 2 2 3 3 2 5 2 2 3 2  
## [77] 3 3 3 2 4 2 2 2 2 2 2  
##   
## $no  
## [1] 87

##Identifies the strongly connected components of the network  
  
# Get the weak components of the network  
# Compute the weak component distribution  
cd <- component.dist(institution.net, connected = "weak")  
cd

## $membership  
## [1] 1 2 1 3 4 5 6 1 1 1 7 8 9 4 10 5 1 1 11 10 12 5 13 1 14  
## [26] 15 16 17 18 1 2 2 5 19 20 1 21 22 5 23 24 1 17 25 1 2 1 5 5 17  
## [51] 1 26 22 27 28 29 23 27 25 14 1 30 31 32 33 9 23 34 35 5 5 1 1 27 5  
## [76] 5 36 8 9 17 1 37 38 39 1 1 1 1 7 28 30 16 13 27 10 17 5 40 41 1  
## [101] 9 5 28 27 12 42 43 1 1 12 4 9 5 40 10 10 44 45 5 46 27 47 9 9 16  
## [126] 1 48 17 49 41 2 25 5 50 51 7 31 10 10 52 2 1 22 53 8 1 1 9 1 53  
## [151] 54 20 41 5 52 9 1 55 31 56 25 27 17 4 23 57 1 58 5 1 5 59 9 5 6  
## [176] 4 9 50 5 1 14 10 5 25 35 15 1 52 1 8 41 15 1 10 25 2 17 60 31 1  
## [201] 1 52 9 1 1 35 52 5 1 9 2 15 47 17 5 7 9 1 2 1 1 2 17 27 50  
## [226] 2 2 17 61 45 1 10 46 25 62 25 5 1 17 35 5 1 49 2 21 1 5 49 9 41  
## [251] 1 17 46 15 5 5 9 63 1 25 5 21 17 5 17 2 9 23 50 2 9 1 1 1 1  
## [276] 64 1 55 1 1 1 22 15 47 9 5 22 1 1 1 55 1 4 1 15 49 22 26 50 7  
## [301] 41 14 2 4 65 23 15 4 9 15 41 10 5 1 66 7 67 27 61 1 68 42 52 1 69  
## [326] 46 61 25 1 50 15 70 5 50 12 1 21 1 1 26 52 52 22 61 46 4 61 26 26 26  
## [351] 46 52 61 4 9 5 42 69 71 26 27 5 72 17 5 5 73 74 5 14 26 1 9 5 1  
## [376] 8 7 8 7 5 41 27 2 10 75 5 27 2 47 5 7 41 70 36 1 1 9 5 1 1  
## [401] 27 1 35 5 5 25 76 77 50 50 9 2 4 59 17 2 78 1 13 5 9 9 17 50 79  
## [426] 5 41 1 1 1 5 63 15 5 45 9 1 1 13 13 47 2 5 1 1 9 4 1 10 80  
## [451] 2 1 25 27 33 42 81 1 9 1 17 82 8 65 5 78 1 9 83 49 5 50 1 14 52  
## [476] 9 52 59 7 1 5 5 26 84 1 5 9 72 9 9 41 25 9 50 1 2 40 10 61 79  
## [501] 15 28 7 77 1 50 33 1 1 1 1 1 5 50 5 9 5 52 1 1 5 72 72 5 85  
## [526] 7 75 9 86 5 25 22 52 1 5 1 1 1 1 1 1 62 5 2 1 1 1 81 1 87  
## [551] 1 1 1 1 1 81 1 1 1 1 9 2 40 1 1 3 4 5 6 7 8 9 10 11 12  
## [576] 5 13 14 15 16 18 1 2 19 20 21 23 24 17 25 1 26 22 27 28 29 27 27 30 31  
## [601] 32 32 34 35 36 36 37 38 39 1 1 40 41 42 43 5 44 45 46 47 9 9 9 9 9  
## [626] 16 48 49 51 52 53 54 9 55 56 57 58 58 59 60 1 61 1 62 1 1 1 1 1 1  
## [651] 1 1 1 1 1 1 1 1 1 1 63 1 64 1 22 65 65 15 66 66 67 68 69 50 70  
## [676] 26 26 26 61 26 71 27 72 73 74 75 9 76 77 50 4 78 79 80 33 81 82 83 59 84  
## [701] 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 85 86 1 87  
## [726] 1  
##   
## $csize  
## [1] 171 26 2 14 67 3 13 8 46 15 2 5 6 7 14 5 20 2 2  
## [20] 3 5 10 7 2 15 14 18 6 2 3 5 3 4 2 6 4 2 2  
## [39] 2 5 12 5 2 2 4 7 6 2 6 16 2 14 3 2 4 2 2  
## [58] 3 5 2 9 3 3 2 4 3 2 2 3 3 2 5 2 2 3 2  
## [77] 3 3 3 2 4 2 2 2 2 2 2  
##   
## $cdist  
## [1] 0 32 15 6 8 5 3 1 1 1 0 1 1 4 2 1 0 1 0 1 0 0 0 0 0  
## [26] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0  
## [51] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0  
## [76] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [101] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [126] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [151] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0  
## [176] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [201] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [226] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [251] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [276] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [301] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [326] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [351] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [376] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [401] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [426] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [451] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [476] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [501] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [526] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [551] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [576] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [601] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [626] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [651] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [676] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [701] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  
## [726] 0

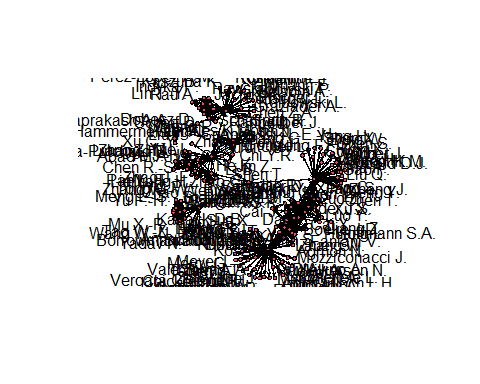
##Identifies the weakly connected components of the network.  
  
  
# Plot the component size distribution  
plot(1:length(cd$cdist), cd$cdist, xlab = "Size", ylab = "Frequency")



##This line plots a distribution of the sizes of weakly connected components.  
##The x-axis represents the size of the weak components (i.e., how many nodes each component has).  
##The y-axis represents the frequency, or how many components have that particular size.  
##This plot gives you a sense of how the network's weak components are distributed. Are there many small components? Or just a few large ones?  
  
  
# Find the largest weak component  
cl <- component.largest(institution.net, connected = "weak")  
cl

## [1] TRUE FALSE TRUE FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE  
## [13] FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE TRUE  
## [25] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE  
## [37] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE TRUE FALSE TRUE FALSE  
## [49] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [61] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [73] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE  
## [85] TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [97] FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [109] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [121] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [133] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [145] FALSE TRUE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [157] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE  
## [169] FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [181] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE FALSE FALSE FALSE  
## [193] TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE TRUE  
## [205] TRUE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [217] FALSE TRUE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [229] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [241] FALSE TRUE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE TRUE FALSE  
## [253] FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE  
## [265] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE  
## [277] TRUE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [289] TRUE TRUE FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [301] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [313] FALSE TRUE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE TRUE  
## [325] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [337] FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [349] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [361] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [373] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [385] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE  
## [397] FALSE FALSE TRUE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [409] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE  
## [421] FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE FALSE FALSE  
## [433] FALSE FALSE FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE TRUE  
## [445] TRUE FALSE FALSE TRUE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE  
## [457] FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE FALSE  
## [469] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE  
## [481] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [493] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [505] TRUE FALSE FALSE TRUE TRUE TRUE TRUE TRUE FALSE FALSE FALSE FALSE  
## [517] FALSE FALSE TRUE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [529] FALSE FALSE FALSE FALSE FALSE TRUE FALSE TRUE TRUE TRUE TRUE TRUE  
## [541] TRUE FALSE FALSE FALSE TRUE TRUE TRUE FALSE TRUE FALSE TRUE TRUE  
## [553] TRUE TRUE TRUE FALSE TRUE TRUE TRUE TRUE FALSE FALSE FALSE TRUE  
## [565] TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [577] FALSE FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE  
## [589] FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [601] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE  
## [613] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [625] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [637] FALSE FALSE FALSE FALSE TRUE FALSE TRUE FALSE TRUE TRUE TRUE TRUE  
## [649] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
## [661] FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [673] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [685] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  
## [697] FALSE FALSE FALSE FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
## [709] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE  
## [721] TRUE FALSE FALSE TRUE FALSE TRUE

# Plot the largest weak component  
gplot(institution.net[cl, cl], boxed.lab = FALSE, label = network.vertex.names(institution.net)[cl])



#Step 5.6: Find Cutpoints (Critical Nodes)

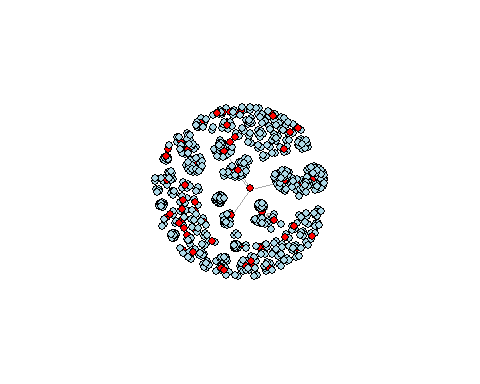
##A cutpoint (or articulation point) is a node in a graph whose removal causes the graph to become disconnected, meaning that the removal of this node splits the graph into two or more disconnected subgraphs. These nodes are critical for the connectivity of the network. Identifying cutpoints is useful for understanding the vulnerabilities or central nodes in a network.  
  
# Find cutpoints (articulation points)  
cutpoints\_result <- cutpoints(institution.net)  
  
# Print cutpoints result  
cutpoints\_result

## [1] 27 44 64 73 113 116 124 125 158 168 197 224 238 267 281 297 305 307 310  
## [20] 315 318 331 347 361 382 397 399 409 410 413 415 448 455 478 483 502 512 541  
## [39] 549 560 564 567 569 571 575 579 585 586 589 595 598 599 600 604 616 618 631  
## [58] 639 661 666 673 674

institution <- read.graph("author\_network.net", format="pajek")

## Warning: `read.graph()` was deprecated in igraph 2.0.0.  
## ℹ Please use `read\_graph()` instead.  
## This warning is displayed once every 8 hours.  
## Call `lifecycle::last\_lifecycle\_warnings()` to see where this warning was  
## generated.

# Visualize the network with cutpoints highlighted  
# Highlight the cutpoints in a different color  
V(institution)$color <- ifelse(V(institution) %in% cutpoints\_result, "red", "lightblue") ##the nodes identified as cutpoints are colored red  
  
# Adjust margins  
par(mar = c(5, 5, 5, 5)) # Increase margins (bottom, left, top, right)  
  
# Plot the graph  
plot(institution, vertex.label = NA, vertex.size = 10, vertex.color = V(institution)$color)



# Save as PNG with a larger size  
png("institution\_network\_plot.png", width = 1200, height = 1200) # Adjust width and height  
plot(institution, vertex.label = NA, vertex.size = 10, vertex.color = V(institution)$color)  
dev.off() # Close the PNG device

## png   
## 2

#institution.net <- asNetwork(institution.net)  
# Find the nodes with red color (assuming red corresponds to a particular group or centrality)  
# Example: Nodes are red if they are cutpoints  
institution\_cp <- cutpoints(institution.net, mode = "graph", return.indicator = TRUE)  
  
# Retrieve the nodes that are red (in this case, the cutpoints)  
red\_nodes <- which(institution\_cp == 1) # Assuming red is assigned to cutpoints  
  
# Print the names of these red nodes  
node\_names <- network.vertex.names(institution.net)[red\_nodes]  
print(node\_names)

## [1] "Ball A.D." "Blaxter M." "Brownlie R.J." "Cai Y."   
## [5] "Daunt F." "Davies J.A." "Diallo A." "Dicks K.L."   
## [9] "Gao L.-M." "Graham S." "Horrocks M.H." "Johnston S.E."   
## [13] "Kim S." "Lemey P." "Loake G.J." "Mair I."   
## [17] "Marinov G.K." "Marshall H." "Martin S.H." "McGibbon M."   
## [21] "McNeilly T.N." "Mongue A.J." "Mutapi F." "Nussey D.H."   
## [25] "Pemberton J.M." "Rambaut A." "Rappsilber J." "Rios-Solis L."   
## [29] "Ripoll M." "Rojas-Pirela M." "Rosser S.J." "Spanos C."   
## [33] "Stokes A.A." "Telfer E.E." "Thumbi S.M." "Vohra P."   
## [37] "Wang Y." "Ye J.-H." "Zhang J." "Zou J."   
## [41] "Jeyaprakash A.A." "Michels P.A.M." "Davies O.R." "Allen J.E."   
## [45] "Burgess K." "Ross L." "Fry S.C." "Cirillo J.D."   
## [49] "Regan L." "Stevens M.P." "Maizels R.M." "Twyford A.D."   
## [53] "Wang B." "Ramamoorthy S." "Masden E." "Carragher N.O."   
## [57] "Hart M.L." "Anderson R.A." "Essl F." "Greenleaf W.J."   
## [61] "Oyarzún D.A." "Halim M."

#List of Cutpoints: The last part of the code (node\_names) prints the names of the nodes that are cutpoints. This can help you identify the specific entities that are central to maintaining the structure of the network.