Make a table of the articles

review, year, author, title, keywords

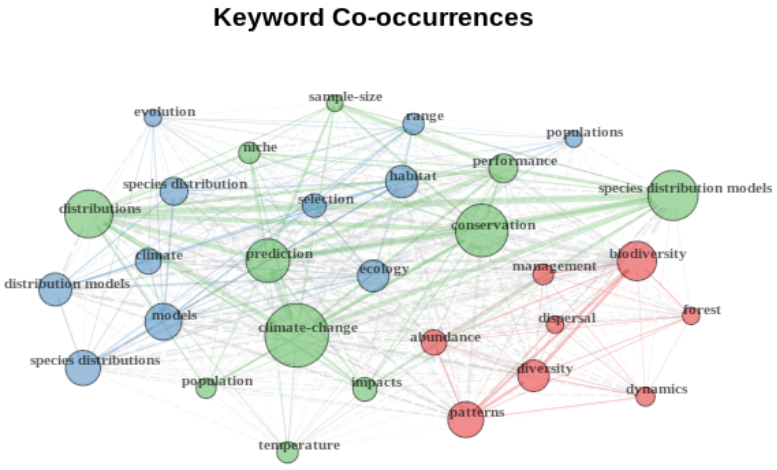
Much of the following code is adapted from https://cran.r-project.org/web/packages/bibliometrix/vignettes/bibliometrix-vignette.html.

```
if (!(any(installed.packages()[, 1] == "bibliometrix"))){
    install.packages("bibliometrix")
}

library(bibliometrix)

## To cite bibliometrix in publications, please use:
##
## Aria, M. & Cuccurullo, C. (2017) bibliometrix: An R-tool for comprehensive science mappin
##
##
## http:\\www.bibliometrix.org
##
##
## To start with the shiny web-interface, please digit:
## biblioshiny()

bib.df  <-  convert2df("../docs/bib/combined.bib", dbsource = "wos", format = "bibtex")

##
## Converting your wos collection into a bibliographic dataframe
##
## Done!
##
##
## Generating affiliation field tag AU_UN from C1:  Done!

                                        # restrict to articles
bib.df <- bib.df[bib.df[, "DT"] == "ARTICLE", ]
year  <- bib.df[, "PY"]
ead <- do.call(rbind, strsplit(bib.df[, "early.access.date"], " "))[, 2]
year[is.na(year)] <- ead[is.na(year)]

if (!(any(dir("../data/") == "genm_biblio.csv"))){
    author <- sapply(bib.df[, "AU"], function(x) strsplit(x, ";")[[1]][1], USE.NAMES = FALSE
    review <- grepl("REVIEW", bib.df[, "TI"], ignore.case = TRUE) |
        grepl("REVIEW", bib.df[, "DE"], ignore.case = TRUE) |
        grepl("REVIEW", bib.df[, "ID"], ignore.case = TRUE) |
        grepl("REVIEW", bib.df[, "web.of.science.categories."], ignore.case = TRUE)
    review <- as.numeric(review)
```

```
    kw <- apply(bib.df[, c("DE", "ID")], 1, paste, collapse = "; ")
    kw <- gsub(";;", ";", kw)
    kw <- gsub(";;;", ";", kw)
    kw <- lapply(kw, function(x) unique(strsplit(x, split = "; ")[[1]]))
    kw  <- unlist(lapply(kw, paste, collapse = "; "))
    kw <- as.character(kw)
    gene <- grepl("gene", bib.df[, "TI"], ignore.case = TRUE) |
        grepl("gene", kw, ignore.case = TRUE) |
        grepl("gene", bib.df[, "web.of.science.categories."], ignore.case = TRUE)
    gene <- as.numeric(gene)
    out <- data.frame(year, author, title = bib.df[, "TI"], review, gene, kw)
    out <- out[order(as.numeric(out[, "year"]), decreasing = TRUE),]
    write.csv(file = "../data/genm_biblio.csv", out, row.names = FALSE)
}
```

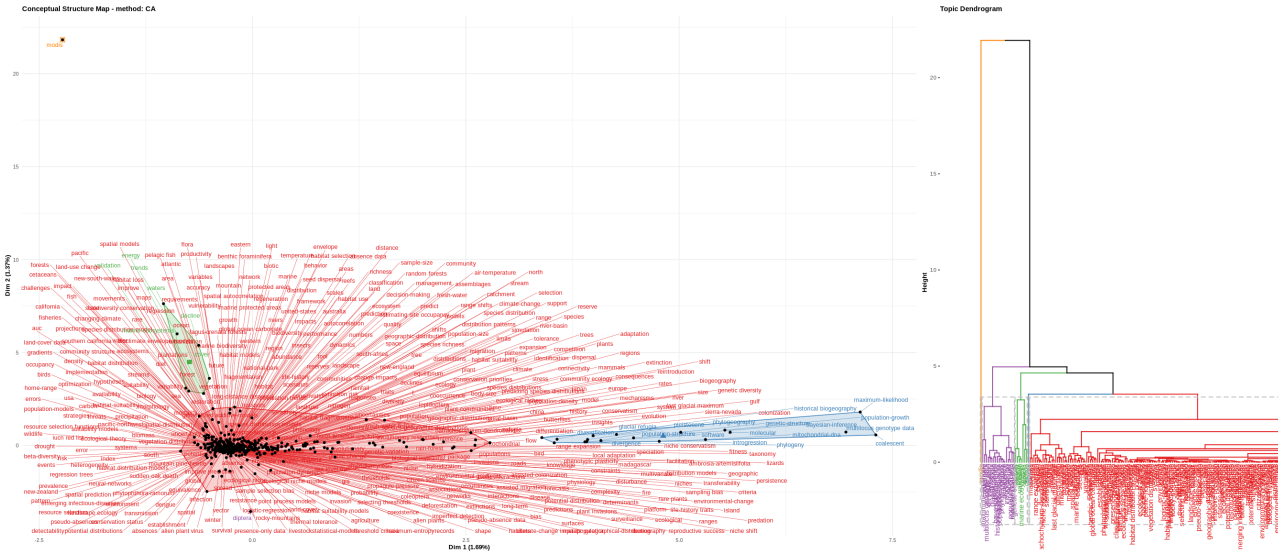
Figures

```
NetMatrix <- biblioNetwork(bib.df, analysis = "co-occurrences",
                           network = "keywords", sep = ";")
net <- networkPlot(NetMatrix, normalize="association", weighted=T, n = 30,
                   Title = "Keyword Co-occurrences", type = "fruchterman",
                   size=T,edgesize = 5,labelsize=0.7)
```

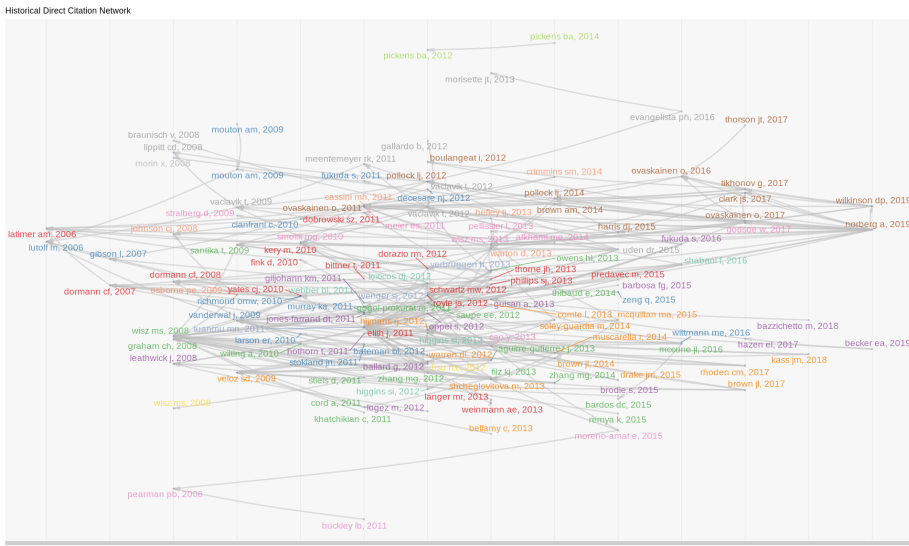



```
CS <- conceptualStructure(bib.df, field="ID", method="CA", minDegree=4, clust=5,
```

```
                                  stemming=FALSE, labelsize=10, documents=20)
```




```
options(width=130)
M <- metaTagExtraction(bib.df, Field = "AU_CO", sep = ";")
histResults <- histNetwork(M, min.citations = 1, sep = ";")

##
## WOS DB:
## Searching local citations (LCS) by reference items (SR) and DOIs...
##
## Analyzing 84259 reference items...
##
## Found 368 documents with no empty Local Citations (LCS)

set.seed(12345)
hist.net <- histPlot(histResults, n=100, size = 1, labelsize=5, verbose = FALSE)
```


Historical Direct Citation Network
pickens ba, 2014
pickens ba, 2012
morisette jt, 2013
evangelista ph, 2016
thorson jt, 2017
braunisch v, 2008
mouton am, 2009
lippitt cd, 2008
gallardo b, 2012
meentemeyer rk, 2011
boulangeat i, 2012
morin x, 2008
mouton am, 2009
fukuda s, 2011
pollock lj, 2012
crimmins sm, 2014
ovaskainen o, 2016
tikhonov g, 2017
vaclavik t, 2012
decesare nj, 2012
pollock lj, 2014
clark js, 2017
wilkinson dp, 2019
vaclavik t, 2009
ovaskainen o, 2011
brown am, 2014
stralberg d, 2009
dobrowski sz, 2011
ovaskainen o, 2017
latimer am, 2006
harris dj, 2015
norberg a, 2019
johnson cj, 2008
fukuda s, 2016
lutolf m, 2006
gibson l, 2007
santika t, 2009
kery m, 2010
dorazio rm, 2012
uden dr, 2015
owens hl, 2013
shabani f, 2016
fink d, 2010
bittner t, 2011
thorne jh, 2013
dormann cf, 2008
predavec m, 2015
phillips sj, 2013
barbosa fg, 2015
dormann cf, 2007
yates cj, 2010
schwartz mw, 2012
richmond omw, 2010
murray ka, 2011
zeng q, 2015
vanderwal j, 2009
guisan a, 2013
saupe ee, 2012
comte l, 2013
mcquillan ma, 2015
jones-farrand dt, 2011
oppel s, 2012
soley-guardia m, 2014
bazzichetto m, 2018
wisz ms, 2008
elith j, 2011
wittmann me, 2016
larson er, 2010
muscarella r, 2014
hazen el, 2017
becker ea, 2019
graham ch, 2008
hothorn t, 2011
bateman bl, 2012
aguirre-gutierrez j, 2013
mccune jl, 2016
leathwick j, 2008
kass jm, 2018
stokland jn, 2011
brown jl, 2014
ballard g, 2012
filz kj, 2013
zhang mg, 2014
drake jm, 2015
rhoden cm, 2017
veloz sd, 2009
stiels d, 2011
zhang mg, 2012
brown jl, 2017
higgins si, 2012
brodie s, 2015
langer mr, 2013
cord a, 2011
bardos dc, 2015
lopez m, 2012
weinmann ae, 2013
khatchikian c, 2011
remya k, 2015
bellamy c, 2013
moreno-amat e, 2015
pearman pb, 2008
buckley lb, 2011
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