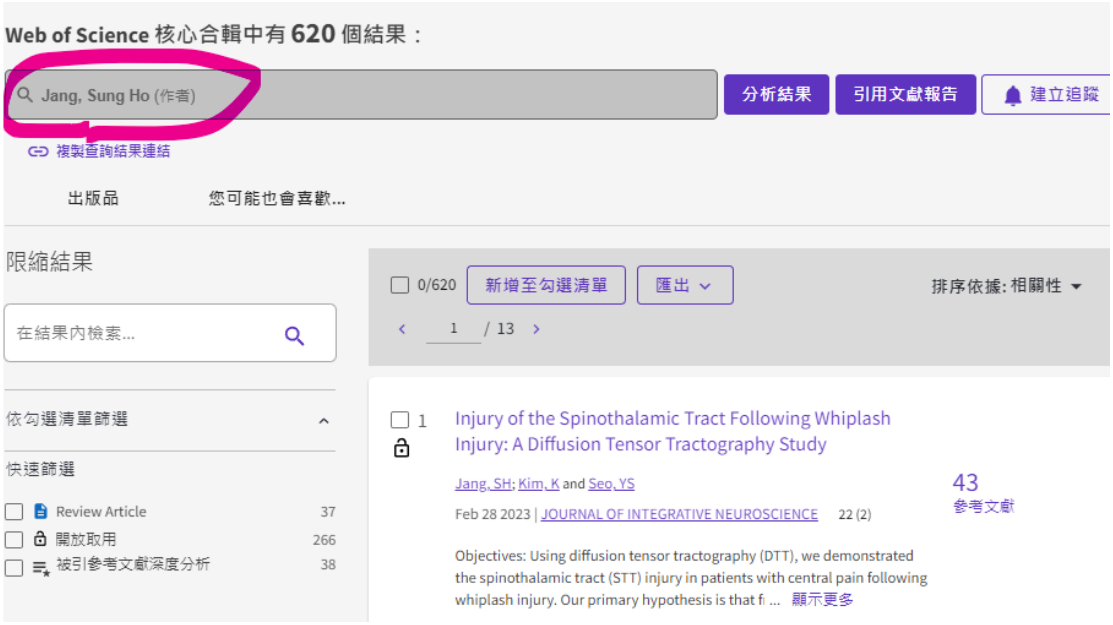
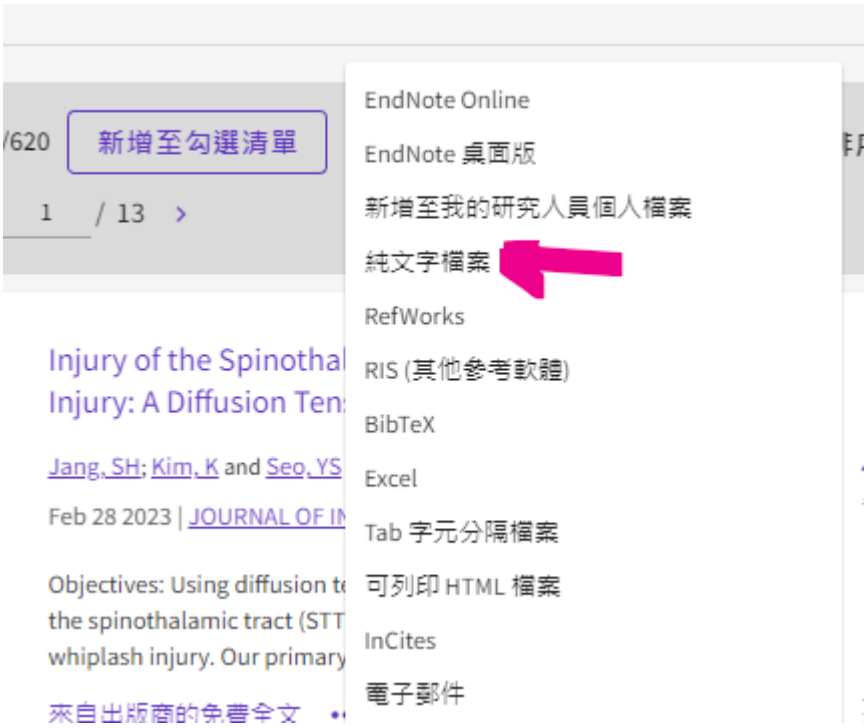
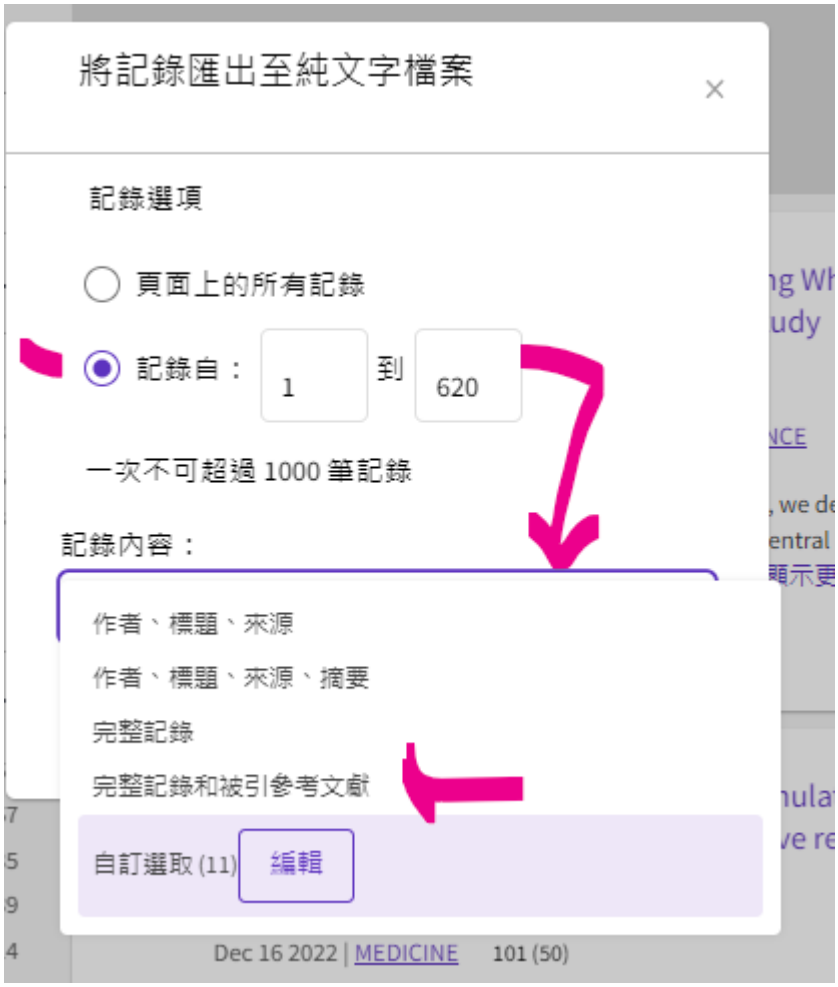
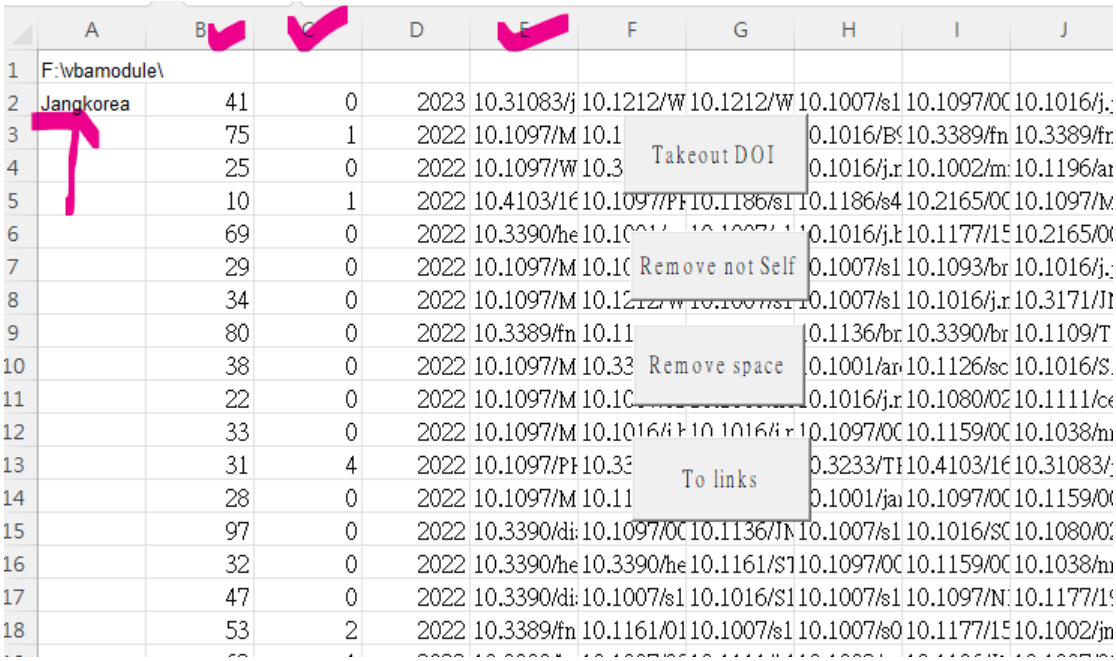
How to conduct this study

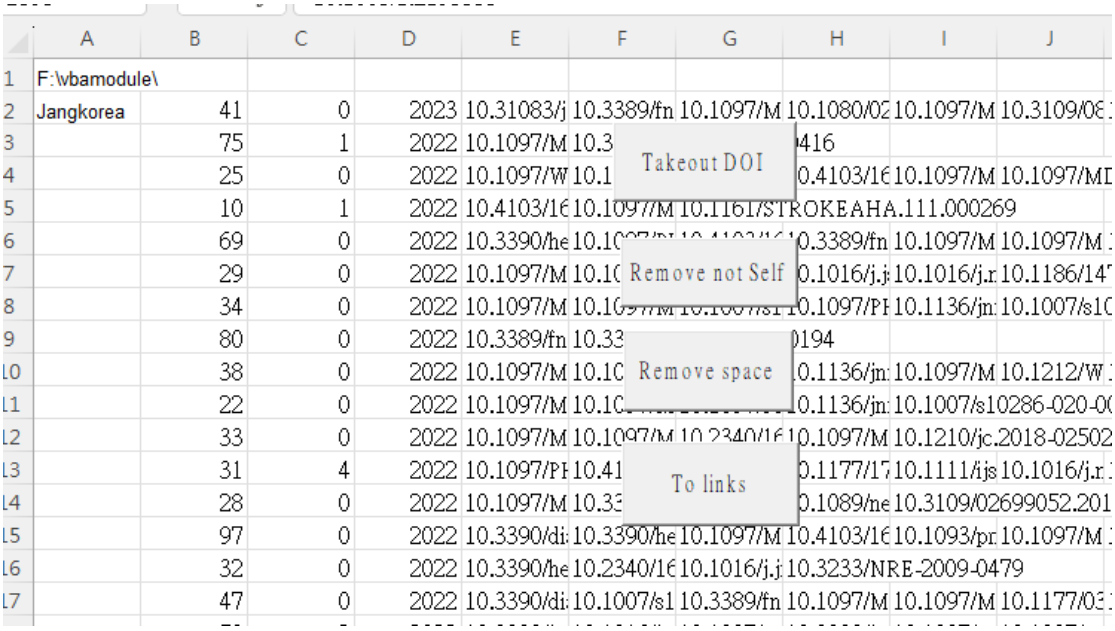








Extract data from the text file in Excel



	A	B	C	D	E	F	G	H	I	J
1	F:\wbamodule\									
2	Jangkorea	41	0	2023	10.31083/j	10.3389/fn	10.1097/M	10.1080/02	10.1097/M	10.3109/08
3		75	1	2022	10.1097/M	10.3		416		
4		25	0	2022	10.1097/W	10.1		0.4103/16	10.1097/M	10.1097/MD
5		10	1	2022	10.4103/16	10.1097/M	10.1161/STROKEAHA.111.000269			
6		69	0	2022	10.3390/he	10.1		0.3389/fn	10.1097/M	10.1097/M
7		29	0	2022	10.1097/M	10.1		0.1016/j.j	10.1016/j.r	10.1186/14
8		34	0	2022	10.1097/M	10.1		0.1097/PH	10.1136/jn	10.1007/s1
9		80	0	2022	10.3389/fn	10.33		0194		
10		38	0	2022	10.1097/M	10.1		0.1136/jn	10.1097/M	10.1212/W
11		22	0	2022	10.1097/M	10.1		0.1136/jn	10.1007/s10286-020-0	
12		33	0	2022	10.1097/M	10.1		0.1097/M	10.1210/jc.2018-02502	
13		31	4	2022	10.1097/PH	10.41		0.1177/17	10.1111/ijs	10.1016/j.r
14		28	0	2022	10.1097/M	10.33		0.1089/ne	10.3109/02699052.201	
15		97	0	2022	10.3390/di	10.3390/he	10.1097/M	10.4103/16	10.1093/pr	10.1097/M
16		32	0	2022	10.3390/he	10.2340/16	10.1016/j.j	10.3233/NRE-2009-0479		
17		47	0	2022	10.3390/di	10.1007/s1	10.3389/fn	10.1097/M	10.1097/M	10.1177/03

Only those eligible articles are involved in this study(note. articles in column E is the published articles and others are cited by the articles in column E)

The next two are counts of cited articles in each and citations and years on this article)

	A	B	C
1	citing	cited	
2	10.31083/j.jin2202046	10.3389/fneur.2019.01199	
3	10.31083/j.jin2202046	10.1097/MD.0000000000014306	
4	10.31083/j.jin2202046	10.1080/02699052.2016.1239274	
5	10.31083/j.jin2202046	10.1097/MD.0000000000005958	
6	10.31083/j.jin2202046	10.3109/08990220.2013.796923	
7	10.31083/j.jin2202046	10.3109/02699052.2014.887228	
8	10.31083/j.jin2202046	10.3390/diagnostics10010019	
9	10.1097/MD.000000000003180	10.3389/fnhum.2013.00416	
10	10.1097/WNR.0000000000000018	10.1097/MD.0000000000023933	
11	10.1097/WNR.0000000000000018	10.1097/MD.0000000000019937	
12	10.1097/WNR.0000000000000018	10.4103/1673-5374.276362	
13	10.1097/WNR.0000000000000018	10.1097/MD.0000000000005234	
14	10.1097/WNR.0000000000000018	10.1097/MD.0000000000004041	
15	10.4103/1673-5374.339013	10.1097/MD.0000000000014307	
16	10.4103/1673-5374.339013	10.1161/STROKEAHA.111.000269	
17	10.3390/healthcare10101927	10.1097/PHM.0000000000000076	
18	10.3390/healthcare10101927	10.4103/1673-5374.303046	

To generate the couple pair-relationship

Clear

```
countryA,countryB
Taiwan,Taiwan
Canada,Canada
U.K,U.K
China,China
China,China
China,China
Singapore,Singapore
South Korea,South Korea
China,China
South Korea,South Korea
U.S,U.S
China,China
China,China
Grenada,Grenada
```

to draw plots in R

Chinese notes

Submit for MAuthorcorrence

Start[here]. 2-column(couple) data
Start[here]2. 2-column(couple) Excluding
60A7A.D1:3-column to 6-column data
60A7B.D1:3 to 4 for Network in SNA

Start[here]. 2-column(couple) data
Start[here]2. 2-column(couple) Excluding

Submit

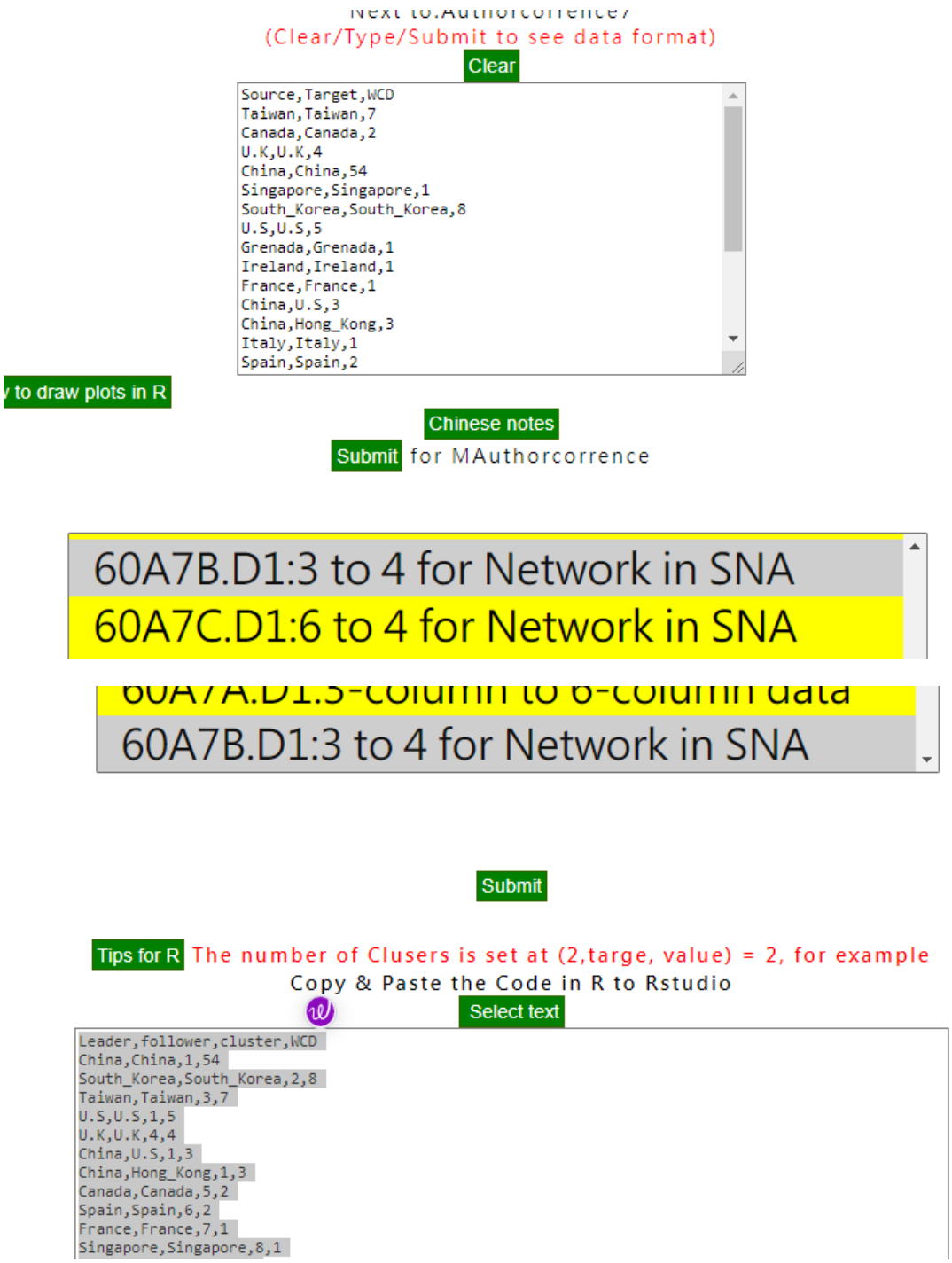
Tips for R

Copy & Paste the Code in R to Rstudio

Select text

```
Source,Target,WCD
Taiwan,Taiwan,7
Canada,Canada,2
U.K,U.K,4
China,China,54
Singapore,Singapore,1
South_Korea,South_Korea,8
U.S,U.S,5
Grenada,Grenada,1
Ireland,Ireland,1
France,France,1
China,U.S,3
China,Hong_Kong,3
Italy,Italy,1
Spain,Spain,2
Australia.Australia.1
```

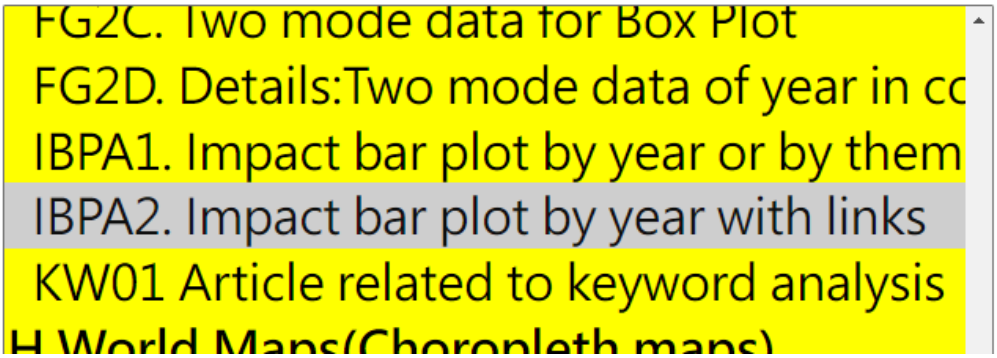
To generate the 3-column dataset from the 2-column dataset



Cluster analysis is performed and shown in the third column. WCD is in the 4 column.

Chinese notes

Submit for Authorcorrence9A



To produce the IBP plot

C	D	E	F	G	H
2006	61.00	1	61	13.00	3
2007	72.17	6	433	17.00	4
2008	49.33	6	296	6.00	2
2009	28.40	20	568	12.43	2
2010	21.89	37	810	13.00	3
2011	14.18	44	624	16.25	5
2012	15.74	39	614	24.00	9
2013	17.32	44	762	27.00	50
2014	15.33	42	644	16.60	16
2015	10.41	39	406	8.75	6
2016	6.33	66	418	20.00	6
2017	4.92	48	236	12.50	6
2018	3.73	33	123	11.13	6
2019	5.56	25	139	8.89	6
2020	3.19	32	102	3.67	6
2021	1.36	25	34	0.50	6

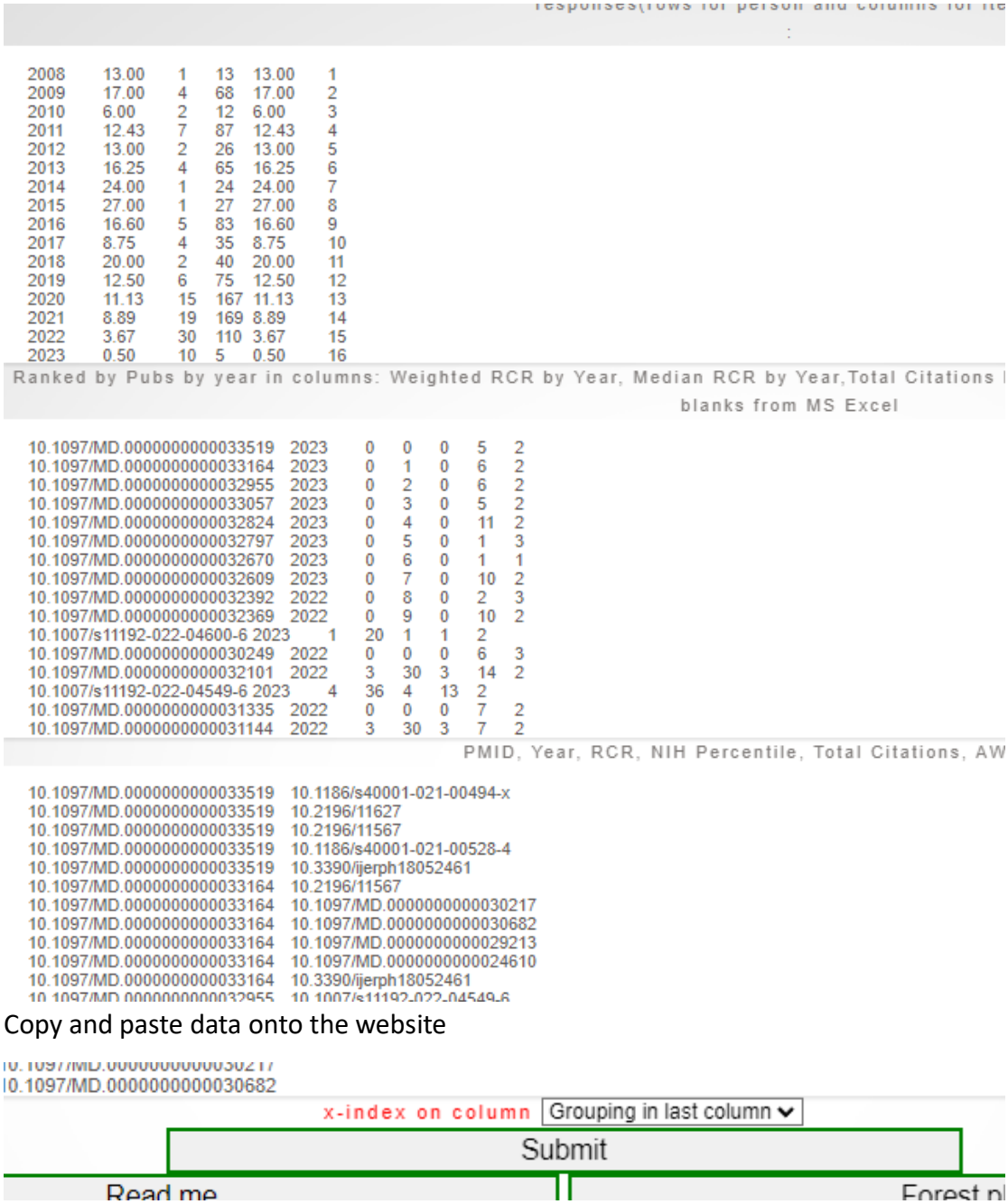
Prepare data in this way for the table 1

	J	K	L	M	N	O	P
	article	Year	citation	percenttage	citation	WCD	Cluster
1	10.1161/STROKEAHA.111.000269	2013	114	99	114	62	1
2	10.3233/NRE-2009-0480	2009	93	99	93	56	2
3	10.3349/ymj.2011.52.4.553	2011	66	97	66	52	2
4	10.1016/j.neulet.2011.11.030	2012	86	98	86	51	1
5	10.2340/16501977-1782	2014	70	97	70	44	2
6	10.3389/fnhum.2013.00416	2013	98	99	98	42	3
7	10.1159/000281108	2010	59	97	59	39	3
8	10.1097/MRR.0b013e32833f0500	2010	73	98	73	34	2
9	10.3109/02699052.2014.887228	2014	28	89	28	33	1
10	10.1016/j.neulet.2014.07.024	2014	51	95	51	30	3
11	10.3233/NRE-2012-0790	2012	41	94	41	30	1
12	10.1097/01.wnr.0000220128.01597	2006	61	97	61	29	2
13	10.2340/16501977-1145	2013	29	89	29	26	1
14	10.3389/fneur.2019.01188	2019	29	89	29	26	2
15	10.1016/j.neulet.2009.10.075	2010	45	95	45	26	3

The second table is in this way for publication list

	A	B	C
1	citing	cited	
2	10.31083/j.jin2202046	10.3389/fneur.2019.01199	
3	10.31083/j.jin2202046	10.1097/MD.0000000000014306	
4	10.31083/j.jin2202046	10.1080/02699052.2016.1239274	
5	10.31083/j.jin2202046	10.1097/MD.0000000000005958	
6	10.31083/j.jin2202046	10.3109/08990220.2013.796923	
7	10.31083/j.jin2202046	10.3109/02699052.2014.887228	
8	10.31083/j.jin2202046	10.3390/diagnostics10010019	
9	10.1097/MD.000000000003180	10.3389/fnhum.2013.00416	
10	10.1097/WNR.0000000000000018	10.1097/MD.0000000000023933	
11	10.1097/WNR.0000000000000018	10.1097/MD.0000000000019937	
12	10.1097/WNR.0000000000000018	10.4103/1673-5374.276362	
13	10.1097/WNR.0000000000000018	10.1097/MD.0000000000005234	
14	10.1097/WNR.0000000000000018	10.1097/MD.0000000000004041	
15	10.4103/1673-5374.339013	10.1097/MD.0000000000014307	
16	10.4103/1673-5374.339013	10.1161/STROKEAHA.111.000269	
17	10.3390/healthcare10101927	10.1097/PHM.0000000000000076	
18	10.3390/healthcare10101927	10.4103/1673-5374.303046	

The third is the one with couple pair relationship



2008	13.00	1	13	13.00	1
2009	17.00	4	68	17.00	2
2010	6.00	2	12	6.00	3
2011	12.43	7	87	12.43	4
2012	13.00	2	26	13.00	5
2013	16.25	4	65	16.25	6
2014	24.00	1	24	24.00	7
2015	27.00	1	27	27.00	8
2016	16.60	5	83	16.60	9
2017	8.75	4	35	8.75	10
2018	20.00	2	40	20.00	11
2019	12.50	6	75	12.50	12
2020	11.13	15	167	11.13	13
2021	8.89	19	169	8.89	14
2022	3.67	30	110	3.67	15
2023	0.50	10	5	0.50	16

Ranked by Pubs by year in columns: Weighted RCR by Year, Median RCR by Year,Total Citations

blanks from MS Excel

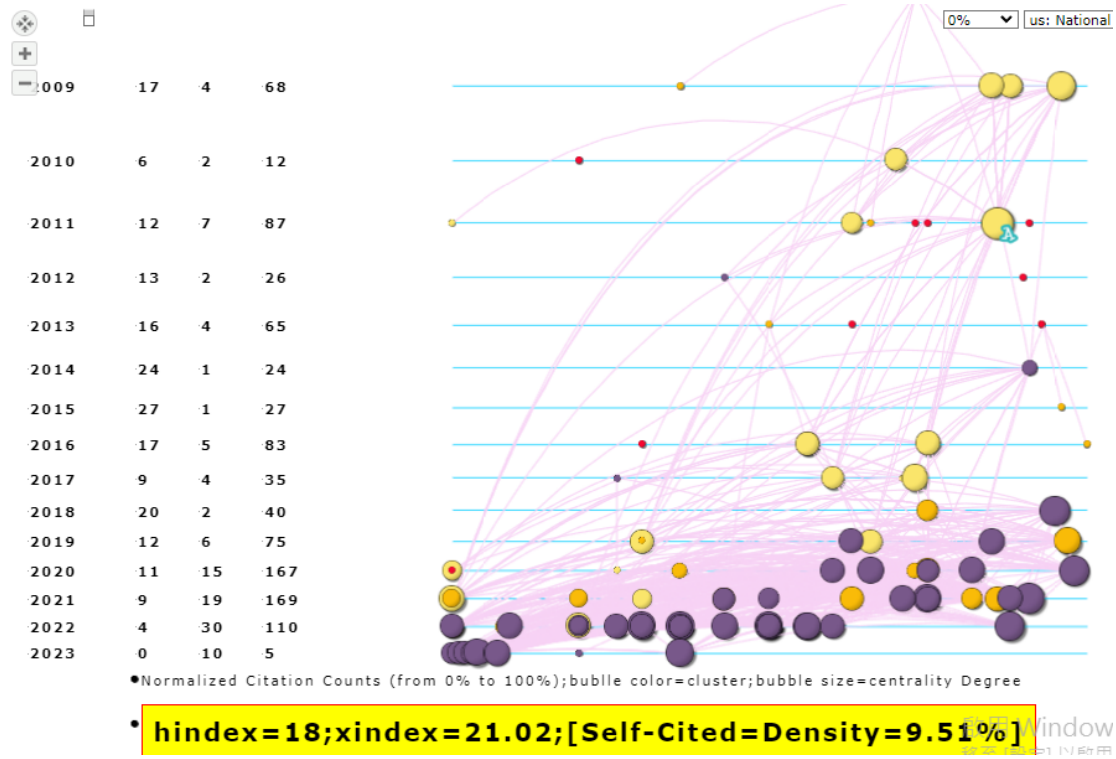
10.1097/MD.0000000000033519	2023	0	0	0	5	2
10.1097/MD.0000000000033164	2023	0	1	0	6	2
10.1097/MD.0000000000032955	2023	0	2	0	6	2
10.1097/MD.0000000000033057	2023	0	3	0	5	2
10.1097/MD.0000000000032824	2023	0	4	0	11	2
10.1097/MD.0000000000032797	2023	0	5	0	1	3
10.1097/MD.0000000000032670	2023	0	6	0	1	1
10.1097/MD.0000000000032609	2023	0	7	0	10	2
10.1097/MD.0000000000032392	2022	0	8	0	2	3
10.1097/MD.0000000000032369	2022	0	9	0	10	2
10.1007/s11192-022-04600-6	2023	1	20	1	1	2
10.1097/MD.0000000000030249	2022	0	0	0	6	3
10.1097/MD.0000000000032101	2022	3	30	3	14	2
10.1007/s11192-022-04549-6	2023	4	36	4	13	2
10.1097/MD.0000000000031335	2022	0	0	0	7	2
10.1097/MD.0000000000031144	2022	3	30	3	7	2

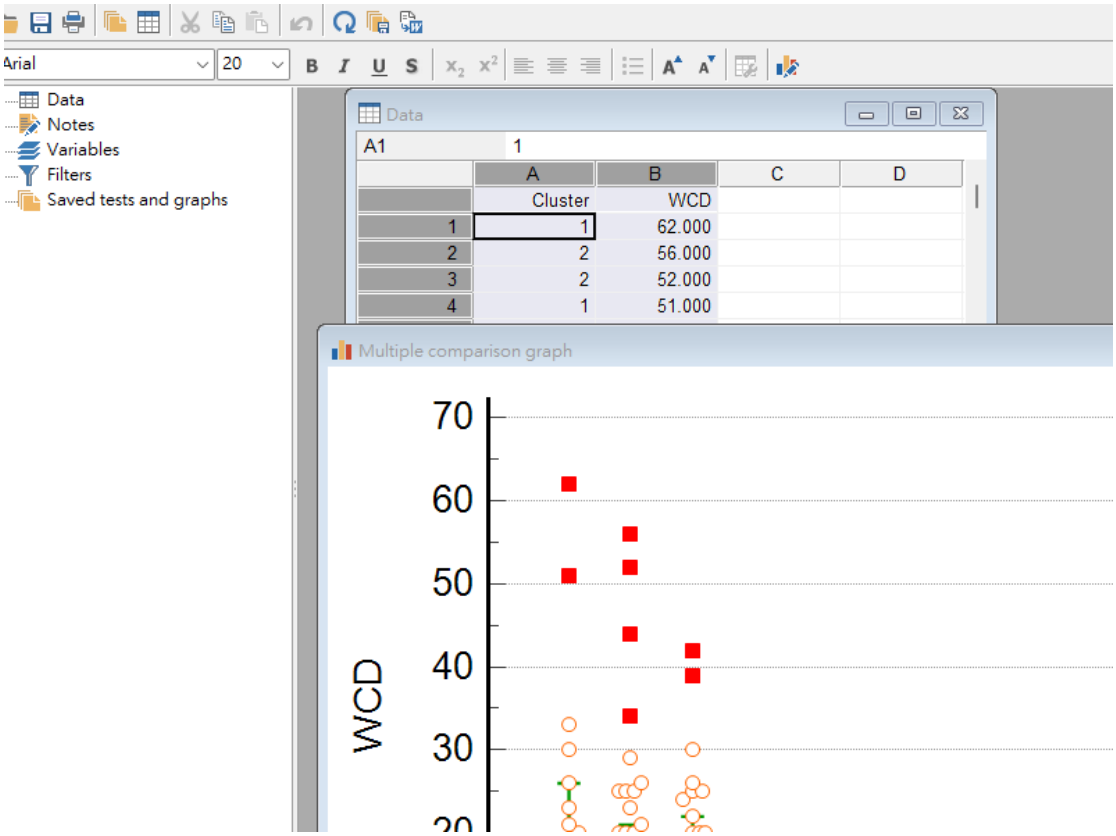
PMID, Year, RCR, NIH Percentile, Total Citations, AW

10.1097/MD.0000000000033519	10.1186/s40001-021-00494-x
10.1097/MD.0000000000033519	10.2196/11627
10.1097/MD.0000000000033519	10.2196/11567
10.1097/MD.0000000000033519	10.1186/s40001-021-00528-4
10.1097/MD.0000000000033519	10.3390/ijerph18052461
10.1097/MD.0000000000033164	10.2196/11567
10.1097/MD.0000000000033164	10.1097/MD.0000000000030217
10.1097/MD.0000000000033164	10.1097/MD.0000000000030682
10.1097/MD.0000000000033164	10.1097/MD.0000000000029213
10.1097/MD.0000000000033164	10.1097/MD.0000000000024610
10.1097/MD.0000000000033164	10.3390/ijerph18052461
10.1097/MD.0000000000032955	10.1007/s11192-022-04549-6

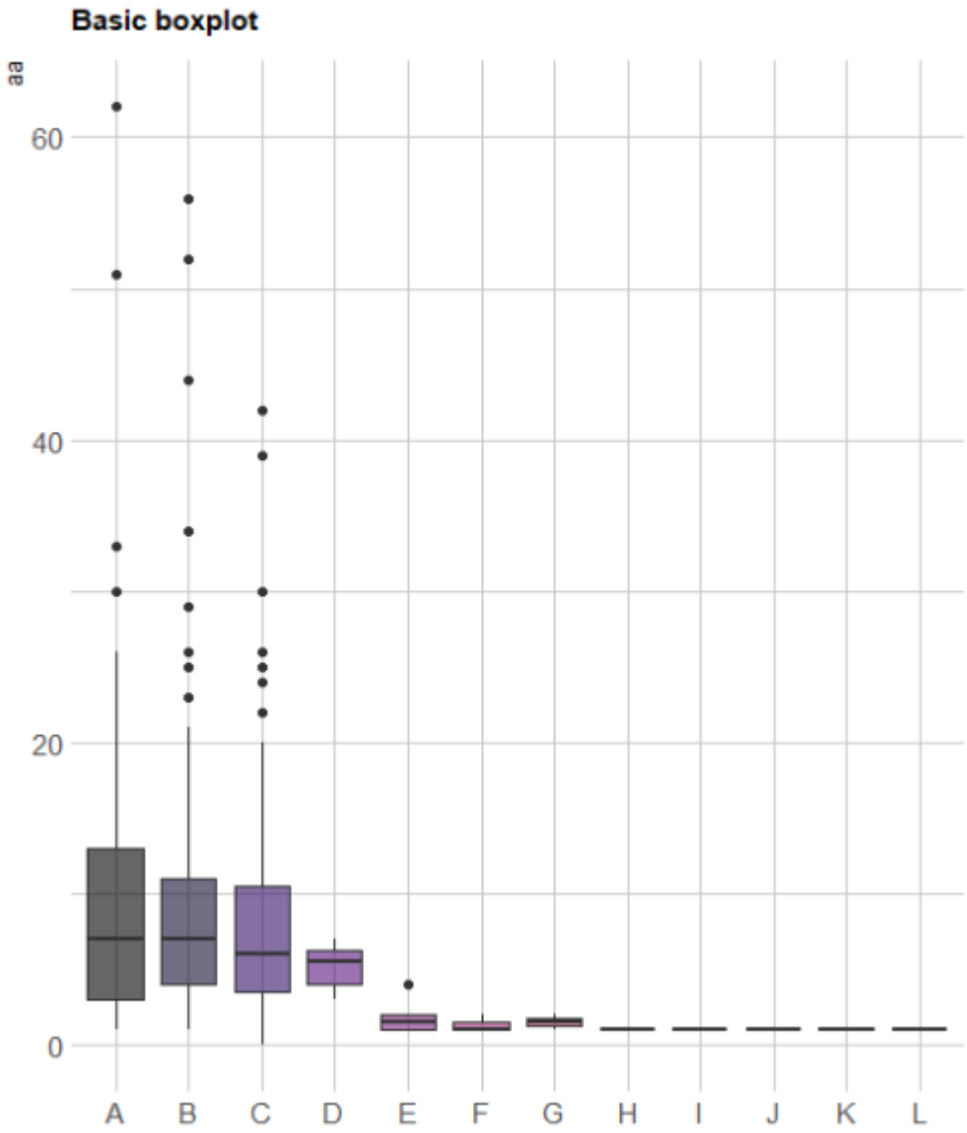
Copy and paste data onto the website

Submit to generate the IBP





To draw the box plot in Medcal



Box plot in R

```
# Libraries
library(ggplot2)
library(dplyr)
library(tidyr)
library(forcats)
library(hrbrthemes)
library(viridis)
library(tidyverse)
library(hrbrthemes)
library(viridis)
  data <-
data.frame(bb=c("A","B","B","A","B","C","C","B","A","C","A","B","A","B","C","B","B",
```

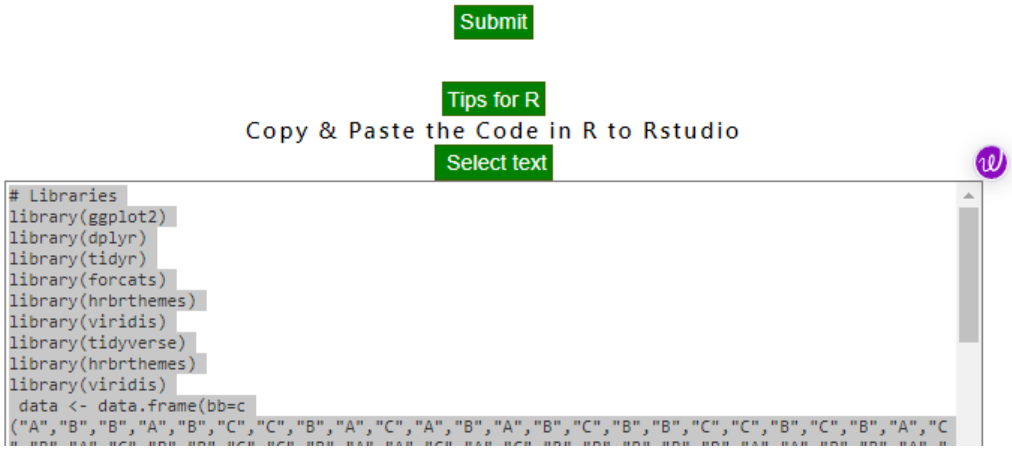
"C","C","B","C","B","A","C","B","A","C","B","B","C","C","B","A","A","C","A","C","B","B
","B","B","B","A","A","B","B","A","C","C","B","B","C","B","B","B","C","A","B","B","B",
"B","A","B","B","C","C","B","B","B","B","B","B","B","C","A","C","B","A","B","B","A","B
","A","C","B","B","B","B","A","B","B","A","A","B","B","A","A","B","B","C","B","B","B",
"B","B","B","B","B","B","B","B","A","C","C","B","B","B","B","B","B","B","B","A","B","A
","B","B","C","B","A","B","B","B","B","B","B","A","C","C","B","B","B","B","C","B","B","
B","B","B","A","B","B","C","B","B","C","C","B","A","C","B","B","C","B","B","B","B","B"
,"B","B","B","B","B","B","B","B","B","B","B","A","A","C","C","B","B","B","B","A","B","A","
B","B","B","A","B","C","B","B","B","C","B","B","B","B","B","B","B","A","B","B","B","B"
,"B","B","B","B","A","B","B","B","B","C","B","A","A","C","B","B","A","B","C","B","B","
B","B","B","B","C","B","D","D","B","B","B","B","B","B","B","B","B","A","B","B","B","B
","B","B","B","B","C","A","B","B","B","B","C","C","C","B","B","B","B","B","B","B","C","
C","C","B","B","B","D","B","B","B","B","B","B","B","A","C","C","C","C","B","C","D","B"
,"A","A","A","A","A","B","B","C","C","B","B","B","C","B","B","B","B","B","B","B","B","
C","B","B","B","B","B","B","B","B","B","B","B","B","B","B","C","B","B","C","B","D","C","A","A"
,"B","B","B","B","C","B","B","B","C","C","C","C","C","C","A","B","B","C","B","C","B","
B","A","D","B","B","A","B","B","B","B","C","C","B","B","B","B","B","B","B","C","C","B"
,"B","A","B","B","B","C","C","C","B","B","B","C","D","C","A","C","B","B","B","B","E","
A","B","B","C","A","C","B","B","C","D","B","B","B","B","C","A","A","A","C","B","A","A
","B","B","B","A","C","A","B","A","B","B","B","B","C","B","B","B","B","B","B","C","B",
"C","C","C","B","B","B","A","C","C","B","B","C","B","B","B","C","B","B","A","B","B","C
","C","A","B","C","C","C","A","C","C","F","G","B","A","B","B","E","E","C","B","B","C","
C","B","B","C","A","A","B","C","B","A","B","B","C","B","H","B","I","B","B","A","A","A"
,"J","A","C","C","K","B","A","L","A","F","G","F","B","B","A","E","B","B","B","B","E","B
","B","A","A","E","C")

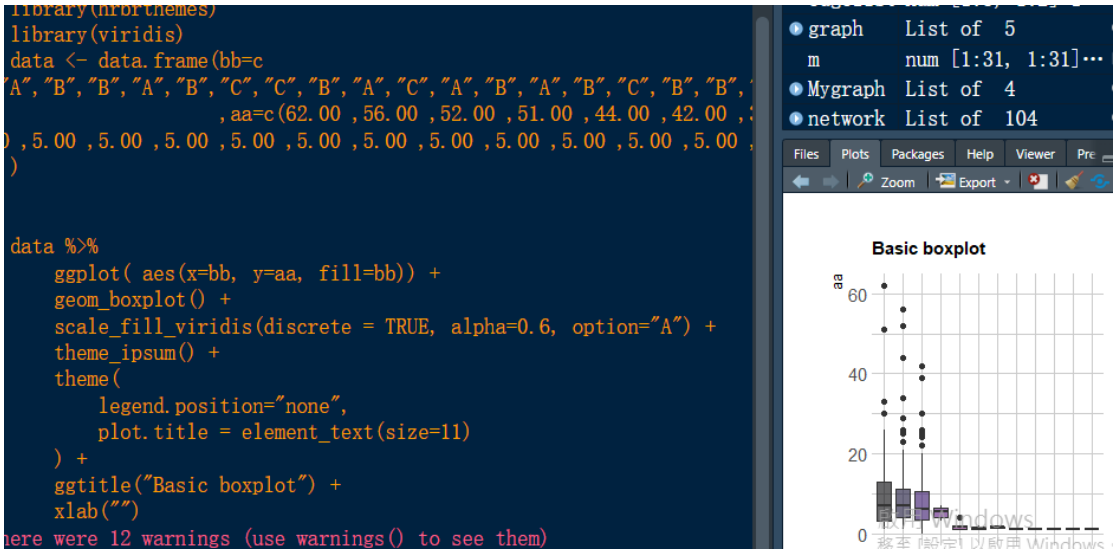
,aa=c(62.00 ,56.00 ,52.00 ,51.00 ,44.00 ,42.00 ,39.00 ,34.00 ,33.00 ,30.00 ,30.00 ,29.0
0 ,26.00 ,26.00 ,26.00 ,25.00 ,25.00 ,25.00 ,25.00 ,25.00 ,24.00 ,23.00 ,23.00 ,22.00 ,2
1.00 ,21.00 ,20.00 ,20.00 ,20.00 ,20.00 ,20.00 ,20.00 ,20.00 ,19.00 ,19.00 ,19.00 ,19.0
0 ,18.00 ,18.00 ,18.00 ,18.00 ,18.00 ,17.00 ,17.00 ,17.00 ,17.00 ,17.00 ,17.00 ,17.00 ,1
7.00 ,17.00 ,16.00 ,16.00 ,16.00 ,16.00 ,15.00 ,15.00 ,15.00 ,15.00 ,15.00 ,15.00 ,15.0
0 ,15.00 ,15.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,1
4.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,14.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.0
0 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,13.00 ,1
2.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.00 ,12.0
0 ,12.00 ,12.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,1
1.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,11.0
0 ,11.00 ,11.00 ,11.00 ,11.00 ,11.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,1
0.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.0

0 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,10.00 ,9.00 ,9.00 ,9.0
0 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00
,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,9.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8
.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.0
0 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00 ,8.00
,8.00 ,8.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7
.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.0
0 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,7.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00
,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6
.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.0
0 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,6.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00
,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5
.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.00 ,5.0
0 ,5.00 ,5.00 ,5.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00
,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4
.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.0
0 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,4.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00
,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3
.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.00 ,3.0
0 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00
,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2
.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,2.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.0
0 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00
,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1
.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,1.00 ,0.00)
)

```
data %>%
  ggplot( aes(x=bb, y=aa, fill=bb)) +
    geom_boxplot() +
    scale_fill_viridis(discrete = TRUE, alpha=0.6, option="A") +
    theme_ipsum() +
    theme(
      legend.position="none",
      plot.title = element_text(size=11)
    ) +
    ggtitle("Basic boxplot") +
```

xlab("")

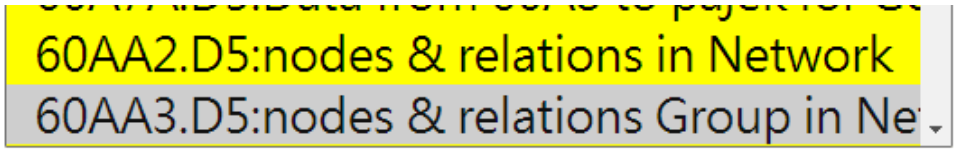




https://youtu.be/Hp3yUUGny2M

https://youtu.be/MjLR_jZ3Rek

	D	E	F	G	H	I
	a	b	c	ccc	aa	bb
.	A1	A1	1	A1	43.05	1
2	A1	A2	1	A2	39.00	2
.	A1	A3	1	A3	38.00	1
.	A1	A4	2	A4	36.00	1
.	A1	A5	2	A5	33.00	1
.	A1	A8	1	A6	32.00	1
3	A1	A10	1	A7	32.00	3
.	A1	A11	1	A8	31.00	1
.	A1	A12	1	A9	31.00	1
.	A1	A13	3	A10	31.00	1
.	A1	A14	2	A11	30.00	1
.	A1	A18	2	A12	30.00	1
.	A1	A19	1	A13	26.00	1
.	A2	A16	1	A14	25.00	1
.	A2	A17	1	A15	23.00	1
2	A5	A6	1	A16	23.00	2



Submit

Tips for R

Copy & Paste the Code in R to Rstudio

Select text

```
  library(igraph)
  data <- data.frame(Source=c("A1","A1","A1","A1","A1","A1","A1","A1","A1","A1","A1","A
1","A1","A2","A2","A5","A5","A6","A6","A7")
,Target=c("A13","A5","A4","A14","A18","A8","A10","A11","A12","A3","A1","A2","A19","A16","A
17","A6","A9","A15","A20","A7")
,Cluster=c(1,1,1,1,1,1,1,1,1,1,1,1,2,2,1,1,1,1,3)
,WCD=c(3,2,2,2,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1)
,clusterB2=c(1,1,1,1,1,1,1,1,1,1,1,2,1,2,2,1,1,1,3)
)
#WCD=c(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1)
nodes <- data.frame(name=c("A7","A6","A20","A15","A5","A9","A2","A17","A16","A1","A19","A
3","A12","A11","A10","A8","A18","A14","A4","A13"),
    carac=c
("3","1","1","1","1","1","2","1","1","1","1","1","1","1","1","1","1","2","2","2","3"))
```

51. Heatmap33

52. Heatmap34(dendrogram)

Submit

Tips for R

Copy & Paste the Code in R to Rstudio

Select text

```
# libraries
library("RColorBrewer")
library(heatmap)
library(heatmapfit)
library(heatmap.2)
library(pheatmap)
library(d3heatmap)
library("gplots")


data <- data.frame(model=c("A1","A5","A2","A13","A6","A14","A18","A4","A12","A3","A8","A10","A19","A16","A17","A11","A9","A15","A20","A7")
,A1=c(1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0)
```