

# CCA and RCA Analysis

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## 1 CCA

### 1.1 Summary

CCA found 3 schematic classes. Sizes: 5381 4970 1981

	Length	Class	Mode
membership	12332	-none-	numeric
modules	3	-none-	list
cormat	152078224	-none-	numeric

## 1.2 Modules

## 1.2.1 Module 1

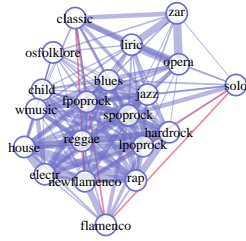
### 1.2.1.1 Module 1 - Kamada Kawai Layout - Color - Drop Neg Ties

for Layout

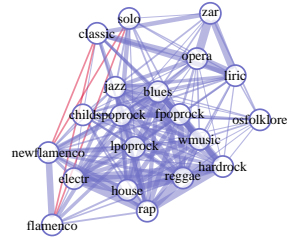
[,1] [,2]

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[5,] 0.8725708 1.10700931 [6,] 1.5851306 0.30689503 [7,] 1.7232814 -0.08644330 [8,] 1.1898512 0.47938349 [9,]  
1.3970704 0.75166611 [10,] 1.7646387 0.57128479 [11,] 0.7134390 0.38582948 [12,] 1.1447856 -0.01923854 [13,]  
1.6557818 -0.52139322 [14,] 0.7943386 -0.44254841 [15,] 1.9690081 0.09116849 [16,] 0.6005964 -0.09598606  
[17,] 1.0808509 1.54481910 [18,] 1.6154487 1.20522936 [19,] 2.0603187 0.95700087 [20,] 2.0423115 1.60437992  
[,1] [,2] [1,] -2.599956 -0.43318273 [2,] -2.200116 0.69696549 [3,] -2.864328 -1.72334506 [4,] -2.896299 -  
0.87510111 [5,] -1.072136 -0.49180370 [6,] -2.270058 -0.43994739 [7,] -2.152469 -0.81298288 [8,] -1.762886  
-0.42831243 [9,] -1.951393 -0.16169858 [10,] -2.319418 -0.10993021 [11,] -1.593457 -0.72105696 [12,] -1.736904  
-1.17377674 [13,] -2.044641 -1.56195065 [14,] -2.675665 -1.18040213 [15,] -1.393019 -1.03916927 [16,] -2.215454  
-1.31479439 [17,] -2.476726 0.52248870 [18,] -1.285217 0.02640441 [19,] -1.615384 0.22664096 [20,] -1.500419  
0.75662947 [,1] [,2] [1,] 0.276637926 1.62624154 [2,] 2.007881742 1.52210412 [3,] 1.046094426 -0.05006653 [4,]  
0.862216245 0.48103922 [5,] 0.285357563 2.15160405 [6,] 1.183574924 1.21856919 [7,] 1.157834784 0.89226499  
[8,] 0.674637311 1.34413569 [9,] 1.058110224 1.50576349 [10,] 0.753228173 1.70493137 [11,] 0.004222542  
1.59723166 [12,] 0.611823751 0.92735181 [13,] 0.119036208 0.52860775 [14,] 0.442937799 0.41305847 [15,]  
0.065981684 1.24723742 [16,] -0.054387493 0.86561642 [17,] 0.675552854 2.55555716 [18,] 1.020260825  
2.15377258 [19,] 1.423355324 1.85000550 [20,] 1.612631586 2.43019890 [,1] [,2] [1,] -0.31866770 0.84818399 [2,]  
1.31763702 0.27361814 [3,] 0.70767079 2.42559986 [4,] 0.20275846 1.99099762 [5,] 1.14654180 0.79300412 [6,]  
0.38009442 1.05974330 [7,] 0.89050119 1.35463258 [8,] 0.69007734 0.97881490 [9,] 0.06869596 0.69887124 [10,]  
0.40651795 0.69521992 [11,] -0.39060130 1.09504126 [12,] 0.42867321 1.51555280 [13,] -0.13916714 1.93790380  
[14,] -0.40683500 1.71885949 [15,] -0.06940056 1.31435448 [16,] 0.74133794 1.79705768 [17,] -0.40056941  
0.02059994 [18,] 0.60050406 0.24563642 [19,] 0.12118263 0.14691787 [20,] 0.68071342 -0.29909533 [,1] [,2]  
[1,] -0.9871133 -1.0932708 [2,] -1.1036983 -2.8604517 [3,] 0.6928317 -1.9973789 [4,] 0.1890351 -1.2013260 [5,]  
-1.4748897 -1.1066293 [6,] -0.5780476 -2.2093471 [7,] -0.3209929 -1.9439496 [8,] -0.6605866 -1.7785451 [9,]  
-0.9030255 -2.0710844 [10,] -1.0476349 -1.7116135 [11,] -0.7882199 -1.3102140 [12,] -0.3507503 -1.3067923 [13,]  
0.1081702 -2.0158850 [14,] 0.2102683 -1.5602451 [15,] -0.6822395 -0.8466453 [16,] -0.1410957 -0.9390336 [17,]  
-1.4477662 -2.5368939 [18,] -1.5241825 -1.9165020 [19,] -1.6266918 -1.5713416 [20,] -1.9773014 -2.3085892

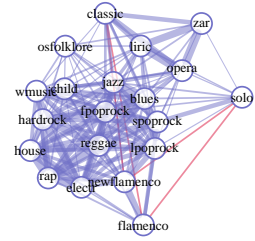
**Module #1**



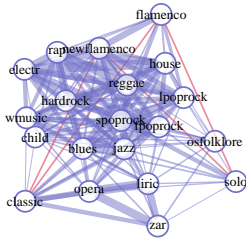
**Module #1**



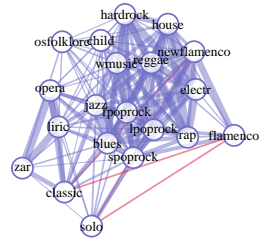
**Module #1**



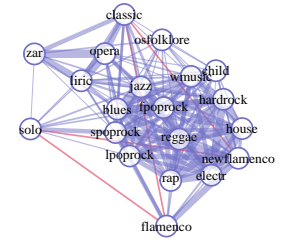
**Module #1**



**Module #1**



**Module #1**



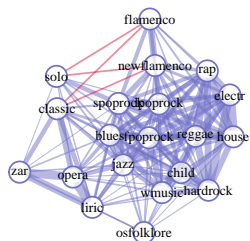
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0.1006082 [5,] -0.68171496 1.5577760 [6,] -1.15135949 0.4167015 [7,] -1.00832611 0.1279940 [8,] -0.66633337  
0.7234536 [9,] -1.13342116 0.7055092 [10,] -0.89550029 0.9788601 [11,] -0.38960790 1.1074407 [12,] -0.50802013  
0.3357425 [13,] -0.59444963 -0.1726820 [14,] -0.18435504 -0.1087182 [15,] -0.06409148 0.8255564 [16,] 0.12501749  
0.4655414 [17,] -1.06344061 1.8700687 [18,] -1.49706183 1.0541615 [19,] -1.25899322 1.3878039 [20,] -1.97029970  
1.3845349

### 1.2.1.2 Module 1 - Kamada Kawai Layout - Color

[,1] [,2]

[1,] 0.95995302 -2.0626416 [2,] -0.37387104 -1.0366325 [3,] 0.62608811 -0.4255362 [4,] 0.68082033 -0.9211299  
[5,] 0.56190274 -2.7025126 [6,] 0.29017338 -1.3258849 [7,] 0.72251776 -1.3316298 [8,] 0.61380123 -1.6914027 [9,]  
0.19834232 -1.6640386 [10,] 0.34011647 -1.9814188 [11,] 0.75606344 -2.2756842 [12,] 1.11398427 -1.6756917 [13,]  
1.23957885 -0.9785667 [14,] 1.48133788 -1.2350083 [15,] 1.25190041 -2.2505434 [16,] 1.51700888 -1.6811124  
[17,] -0.36624602 -1.3818305 [18,] 0.01004102 -2.4330594 [19,] -0.19633534 -2.1100902 [20,] -0.76666325 -  
2.0577293 [,1] [,2] [1,] -1.329802316 -2.747765 [2,] 0.005335618 -3.780134 [3,] -0.993891366 -4.389176 [4,]  
-1.052125267 -3.893442 [5,] -0.928442257 -2.111950 [6,] -0.658271321 -3.490427 [7,] -1.089000303 -3.482708 [8,]  
-0.984309934 -3.121313 [9,] -0.567090171 -3.152577 [10,] -0.706258511 -2.835441 [11,] -1.119531301 -2.541287  
[12,] -1.480792156 -3.139631 [13,] -1.849946311 -3.579304 [14,] -1.607553422 -3.835761 [15,] -1.619868145  
-2.564827 [16,] -1.884635802 -3.132985 [17,] -0.001851380 -3.433879 [18,] -0.376832818 -2.382959 [19,] -  
0.170717713 -2.706658 [20,] 0.399751002 -2.759375 [,1] [,2] [1,] -4.672705 0.45156255 [2,] -3.164513 -0.27469745  
[3,] -2.865843 0.85663488 [4,] -3.357125 0.77053824 [5,] -5.028639 0.14498435 [6,] -3.632208 0.27838230 [7,]  
-3.761697 0.68907469 [8,] -4.077335 0.48642305 [9,] -4.272904 0.13782210 [10,] -3.929557 0.09430854 [11,]  
-4.533927 0.71114451 [12,] -4.201725 0.96757028 [13,] -3.885873 1.44633735 [14,] -3.570417 1.28728846 [15,]  
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-4.243723 -0.41237646 [20,] -4.030751 -0.94356453 [,1] [,2] [1,] 1.3972580 2.0847493 [2,] 0.9201494 0.4648346  
[3,] 2.0396609 0.3596560 [4,] 1.9501528 0.8390404 [5,] 0.9772421 2.3054088 [6,] 1.2440387 1.1879835 [7,]  
1.7907295 1.2395767 [8,] 1.5018494 1.5504810 [9,] 1.4068349 1.0184252 [10,] 1.1352124 1.5516155 [11,] 1.6691632  
1.9941740 [12,] 1.9787810 1.7026629 [13,] 2.5099621 1.4540011 [14,] 2.4085678 1.1159303 [15,] 1.8602846  
2.2720634 [16,] 2.3428787 1.8634714 [17,] 0.7626457 0.7974508 [18,] 0.6195329 1.5575578 [19,] 0.6738803  
1.8978500 [20,] 0.1330288 1.1758981 [,1] [,2] [1,] 0.24126297 0.289873494 [2,] 1.21786180 -1.115101512 [3,]  
2.03036730 -0.276540485 [4,] 1.56254681 -0.098655542 [5,] -0.19209408 0.075181347 [6,] 1.08444144 -0.407254624  
[7,] 1.16677138 0.011945276 [8,] 0.79017551 -0.005853545 [9,] 0.73735647 -0.429968244 [10,] 0.46810330  
-0.216937835 [11,] 0.50723333 0.402776931 [12,] 0.91601755 0.473435598 [13,] 1.62427107 0.450746962  
[14,] 1.42528296 0.741625209 [15,] 0.38491158 0.737401362 [16,] 0.99983157 0.864905523 [17,] 0.87554316  
-1.028968763 [18,] 0.17495075 -0.679757894 [19,] -0.06321552 -0.421998420 [20,] 0.15848323 -1.290709675

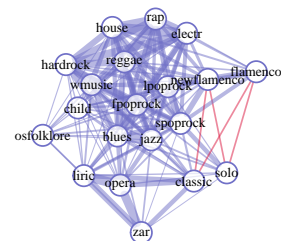
Module #1



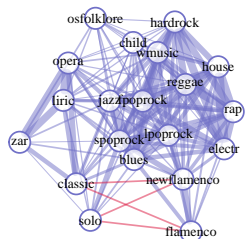
Module #1



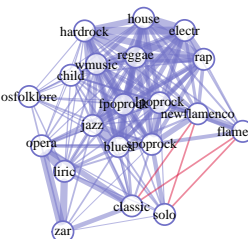
Module #1



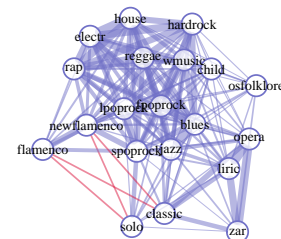
Module #1



Module #1

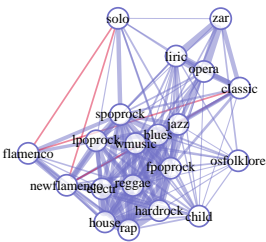


Module #1

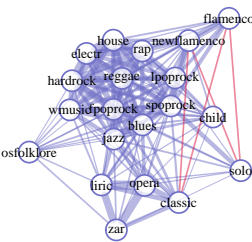


[,1] [,2] [1,] -1.1501481 1.7586783 [2,] -1.9565897 0.2518581 [3,] -2.8605966 0.9891935 [4,] -2.4168811 1.2209927  
[5,] -0.6940736 1.5988340 [6,] -1.9069546 0.9712096 [7,] -2.0368315 1.3783678 [8,] -1.6601769 1.4051496 [9,]  
-1.3171218 1.2301269 [10,] -1.5601468 0.9886278 [11,] -1.4260721 1.8439725 [12,] -1.8415230 1.8651519 [13,]  
-2.5429103 1.7594017 [14,] -2.3799285 2.0711796 [15,] -1.3444957 2.1880888 [16,] -1.9704871 2.2433369 [17,]  
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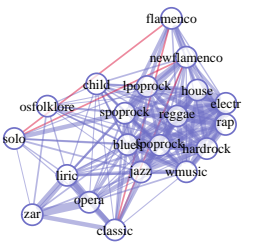
Module #1



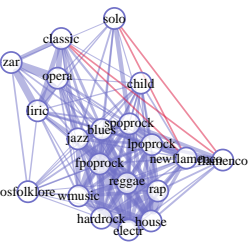
Module #1



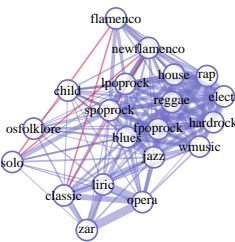
Module #1



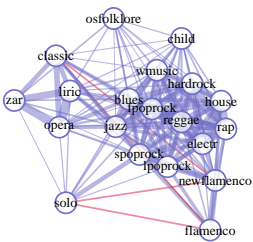
Module #1



Module #1

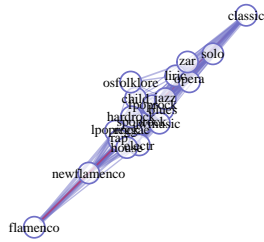


Module #1

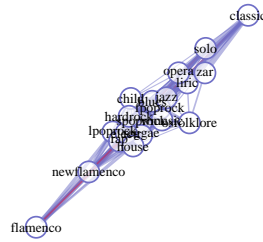


### 1.2.1.3 Module 1 - Fruchtername Reingold Layout - Color - Drop Neg Ties for Layout

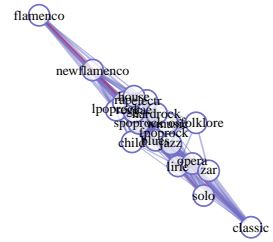
## Module #1



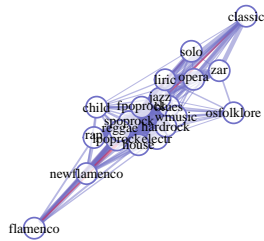
## Module #1



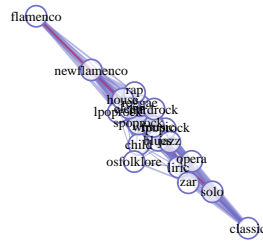
## Module #1



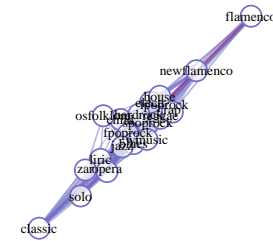
## Module #1



## Module #1



## Module #1





### 1.2.1.4 Module 1 - Fruchtername Reingold Layout - Color

## 1.2.2 Module 2

### 1.2.2.1 Module 2 - Kamada Kawai Layout - Color - Drop Neg Ties

for Layout

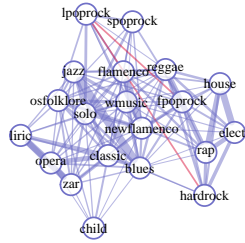
[,1] [,2]

[1,] -1.63277558 -0.07016067 [2,] -1.32157142 0.67709731 [3,] -1.17069862 1.25856386 [4,] -0.94326416  
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[12,] -0.34464679 1.37436842 [13,] -0.45208169 2.09908248 [14,] 0.34273033 1.64321293 [15,] 0.51220426  
1.16850253 [16,] -0.04103383 1.91761085 [17,] -0.70178228 0.44328740 [18,] -0.17133173 -0.24568625 [19,]  
-0.68835854 -0.13209566 [20,] -1.03768852 -0.12116343 [1,] [2,] [1,] -2.936289 -1.738065821 [2,] -3.041402  
-0.461876686 [3,] -2.567775 0.005769983 [4,] -2.339867 -0.623681214 [5,] -3.375442 -0.315440470 [6,] -2.454033  
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[14,] -1.188472 -0.671268620 [15,] -1.560786 -1.373134829 [16,] -1.368225 -0.126882375 [17,] -2.756643  
-0.929215362 [18,] -3.842519 -0.704397666 [19,] -3.467397 -1.012356852 [20,] -3.216322 -1.253342736 [1,] [2,]  
[1,] -1.31565467 -1.2957095 [2,] -0.65178485 -1.6916771 [3,] -0.05005910 -1.6258511 [4,] -0.11680026 -1.8998498  
[5,] -0.69384960 -1.3817550 [6,] 0.42160672 -1.2616320 [7,] 0.01825929 -0.8558782 [8,] 0.29166622 -2.5267384  
[9,] -0.38639855 -2.6313766 [10,] -0.80430782 -2.7083146 [11,] -0.17545744 -2.2423755 [12,] 0.41014366  
-2.0228702 [13,] 0.45387732 -2.9944435 [14,] 0.87070620 -2.8530570 [15,] 0.09685915 -3.3599486 [16,] 0.91828550  
-2.2882484 [17,] -0.69968335 -2.2123703 [18,] -1.40092748 -2.7093100 [19,] -1.29512348 -1.8438837 [20,]  
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[4,] 1.54314002 2.702097 [5,] 1.38650381 3.398698 [6,] 2.09698438 3.372140 [7,] 2.50902027 2.988281 [8,]  
1.46511139 1.914372 [9,] 0.91734919 2.212868 [10,] 0.52712456 2.380935 [11,] 1.31241970 2.427855 [12,]  
1.88320097 2.171100 [13,] 1.82071376 1.442629 [14,] 0.94177213 1.437016 [15,] 1.28884663 1.178730 [16,]  
2.18187006 1.715712 [17,] 0.91048272 2.741174 [18,] 0.04519271 2.747660 [19,] 0.64772917 3.375220 [20,]  
0.42541299 3.110513 [1,] [2,] [1,] -0.02864342 -2.228325961 [2,] -0.47497434 -0.855193837 [3,] -1.02157328  
-0.754700050 [4,] -0.99249252 -1.436112608 [5,] -0.25437176 -0.641150026 [6,] -1.40619211 -0.349839991  
[7,] -0.92117705 0.003368827 [8,] -1.47071412 -1.593258341 [9,] -0.82712932 -1.879986497 [10,] -0.23934238  
-1.224842071 [11,] -0.95264404 -1.086973576 [12,] -1.50566707 -1.040474714 [13,] -2.01097418 -1.705327181  
[14,] -1.83928694 -2.158065263 [15,] -1.43312744 -2.455646857 [16,] -2.06645868 -1.272606601 [17,] -0.51530961  
-1.639958816 [18,] 0.37873545 -0.884966633 [19,] 0.23438545 -1.369738291 [20,] 0.08085724 -1.717007953

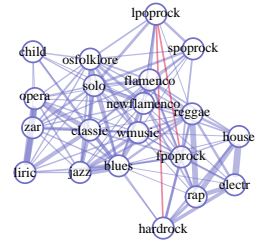
**Module #2**



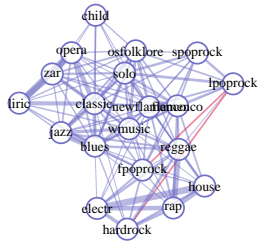
**Module #2**



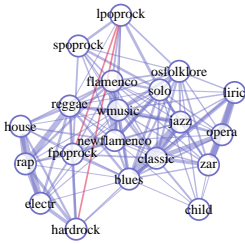
**Module #2**



**Module #2**



**Module #2**



**Module #2**



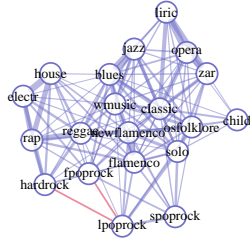
[1,] [2,] [1,] 4.554949 1.60018882 [2,] 4.794761 0.87958587 [3,] 4.457038 0.13221334 [4,] 4.831326 0.26325845  
[5,] 4.401041 0.99474122 [6,] 3.791071 0.55087190 [7,] 3.733642 0.04082189 [8,] 5.021670 -0.33010210 [9,]  
5.480181 0.23470944 [10,] 5.624545 0.62149798 [11,] 5.151646 0.24958998 [12,] 4.569328 -0.33165397 [13,]  
5.502929 -0.73100012 [14,] 5.871833 -0.49905347 [15,] 4.638329 -0.96483404 [16,] 5.127192 -0.91686721 [17,]  
4.583932 0.61015307 [18,] 5.871458 1.14749311 [19,] 5.390831 1.19747653 [20,] 5.099280 1.37561710

### 1.2.2.2 Module 2 - Kamada Kawai Layout - Color

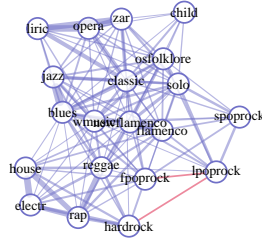
[,1] [,2]

[1,] -1.150624 -1.6707732 [2,] -1.890131 -2.0164741 [3,] -2.425629 -2.1343972 [4,] -2.498366 -1.8103446  
[5,] -1.712882 -1.7487373 [6,] -1.917926 -2.7308095 [7,] -2.573193 -2.8333725 [8,] -2.989640 -2.2593686 [9,]  
-2.730826 -1.1739636 [10,] -2.427326 -0.8965293 [11,] -2.663786 -1.4969560 [12,] -3.088742 -1.8175720 [13,]  
-3.694350 -1.8924636 [14,] -3.802360 -1.4118264 [15,] -3.533339 -2.3791015 [16,] -3.461378 -1.1641852 [17,]  
-2.110387 -1.5491874 [18,] -2.027223 -0.4925924 [19,] -1.775449 -0.9332940 [20,] -1.524228 -1.1648380 [,1]  
[,2] [1,] 1.293015482 2.7057611 [2,] 1.232951125 1.8925344 [3,] 1.073286097 1.3676670 [4,] 0.754462254  
1.4620536 [5,] 1.084325543 2.1774952 [6,] 1.841053648 1.5173025 [7,] 1.609928569 0.8961256 [8,] 0.904618536  
0.8142879 [9,] 0.085302283 1.5717914 [10,] -0.007206512 1.9719120 [11,] 0.400408408 1.4714280 [12,]  
0.470463820 0.9439210 [13,] 0.240111002 0.3797998 [14,] -0.231920867 0.5216659 [15,] 0.743333440 0.2823080  
[16,] -0.281339942 0.9401263 [17,] 0.716434874 1.9281728 [18,] -0.162704900 2.5200662 [19,] 0.343308613  
2.5230474 [20,] 0.668709120 2.6272807 [,1] [,2] [1,] 2.582032 -1.83202231 [2,] 2.074127 -0.47248735 [3,]  
2.438080 -0.07505204 [4,] 2.850182 -0.68252049 [5,] 1.846461 -0.70654992 [6,] 1.918508 0.37811234 [7,]  
2.611063 0.57399833 [8,] 3.004632 0.15235796 [9,] 2.895738 -1.06357913 [10,] 1.757237 -0.24414780 [11,]  
2.584958 -0.42778747 [12,] 3.120672 -0.25139306 [13,] 3.598515 -0.94207470 [14,] 3.923451 -0.71332309  
[15,] 3.809200 -0.21108210 [16,] 3.604236 0.14595443 [17,] 2.413307 -0.92889249 [18,] 1.367702 -1.02962749  
[19,] 2.155987 -1.45786760 [20,] 1.828694 -1.31439849 [,1] [,2] [1,] -1.507718 -2.0334712 [2,] -2.840628  
-2.7982158 [3,] -3.149801 -2.4014465 [4,] -2.611217 -1.8955717 [5,] -2.733495 -3.0923171 [6,] -3.569133  
-2.9944235 [7,] -3.891374 -2.4392707 [8,] -3.221119 -1.7407833 [9,] -2.266159 -1.8214208 [10,] -2.373858  
-2.8543206 [11,] -2.792240 -2.1960498 [12,] -3.416273 -1.9795061 [13,] -3.233857 -1.0654601 [14,] -2.449777  
-0.9806334 [15,] -3.656947 -1.3332971 [16,] -2.844484 -1.0629047 [17,] -2.412352 -2.3817445 [18,] -2.026839  
-3.3302965 [19,] -1.813823 -2.8114117 [20,] -1.763234 -2.4552628 [,1] [,2] [1,] -0.08049718 1.44596664 [2,]  
0.69465419 1.45395593 [3,] 1.21062915 1.04781342 [4,] 1.23039467 1.33034932 [5,] 0.43826638 1.22842162 [6,]  
0.92820757 2.11422692 [7,] 1.56248330 2.02705252 [8,] 1.79923201 1.37188940 [9,] 1.24000697 0.39730125  
[10,] 0.86488035 0.20773444 [11,] 1.27571720 0.70948389 [12,] 1.78290267 0.91914125 [13,] 1.96451575  
0.14302155 [14,] 2.48909713 0.79186402 [15,] 2.34039708 1.34279843 [16,] 2.23956203 0.43511360 [17,]  
0.74879702 0.93762997 [18,] 0.35268798 -0.03737222 [19,] 0.06982979 0.75937177 [20,] 0.24352480 0.45967802

Module #2



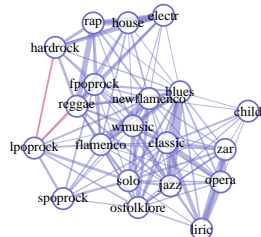
Module #2



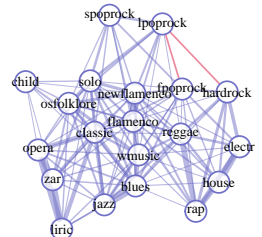
Module #2



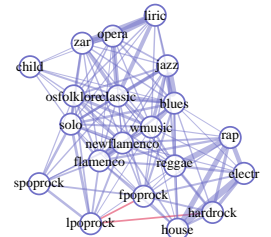
Module #2



Module #2

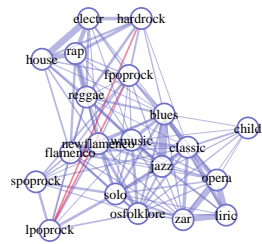


Module #2

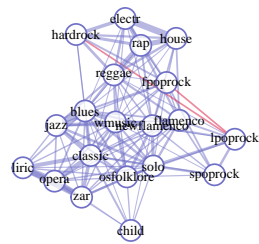


[,1] [,2] [1,] -2.9125129 4.557078 [2,] -2.4574295 3.927878 [3,] -2.1392164 3.524953 [4,] -1.8829280 3.720837 [5,]  
-2.4264561 4.237443 [6,] -2.8116111 3.274083 [7,] -2.2368361 2.835622 [8,] -1.6463555 3.136571 [9,] -1.3055906  
4.157801 [10,] -1.3814375 4.567934 [11,] -1.5615467 3.895196 [12,] -1.2996619 3.470976 [13,] -0.6819632  
3.781030 [14,] -0.5277530 3.387424 [15,] -0.8779728 2.959474 [16,] -1.2671910 2.775462 [17,] -1.9339003  
4.237083 [18,] -1.5171313 5.122179 [19,] -1.9910724 4.893437 [20,] -2.3312840 4.815525

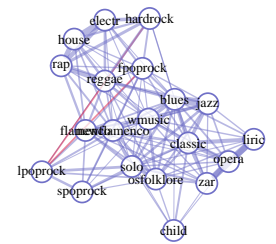
**Module #2**



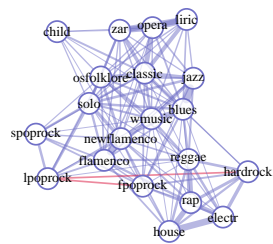
**Module #2**



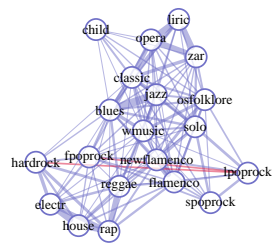
**Module #2**



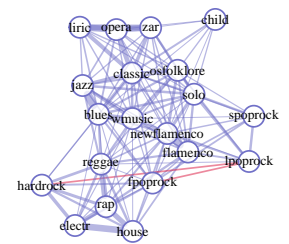
**Module #2**



**Module #2**

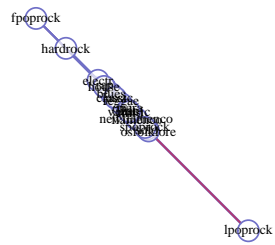


**Module #2**

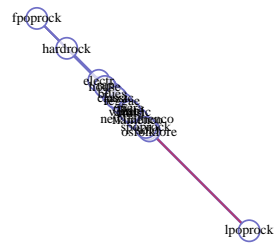


### 1.2.2.3 Module 2 - Fruchtername Reingold Layout - Color - Drop Neg Ties for Layout

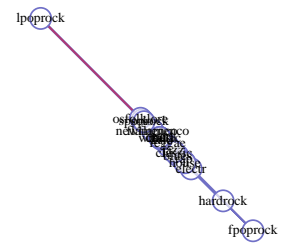
**Module #2**



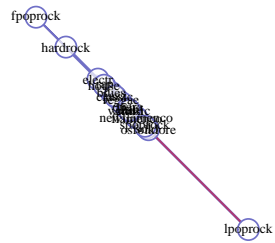
**Module #2**



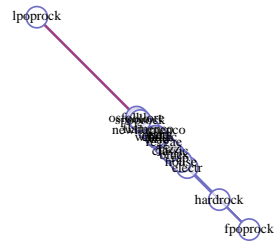
**Module #2**



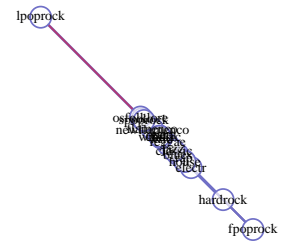
**Module #2**



**Module #2**



**Module #2**



### 1.2.2.4 Module 2 - Fruchtername Reingold Layout - Color

### 1.2.3 Module 3

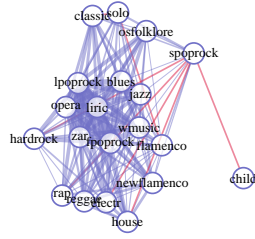
#### 1.2.3.1 Module 3 - Kamada Kawai Layout - Color - Drop Neg Ties

for Layout

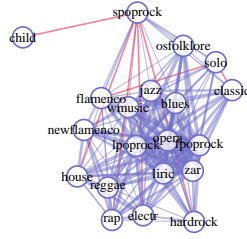
[,1] [,2]

[1,] 5.255923 0.34867178 [2,] 3.561045 1.99508341 [3,] 4.151508 0.67521836 [4,] 4.026577 0.30050125 [5,] 3.942551 1.81033903 [6,] 4.584638 1.58910800 [7,] 3.020214 1.29314182 [8,] 3.457264 0.69804310 [9,] 3.602239 1.31100087 [10,] 3.863229 1.18111023 [11,] 3.847204 0.85223546 [12,] 3.103701 0.11803300 [13,] 2.806008 0.17569043 [14,] 3.398939 0.10905323 [15,] 2.426682 0.74028678 [16,] 3.688459 -0.08602388 [17,] 3.215761 1.96133750 [18,] 3.278472 1.05578098 [19,] 2.856827 1.05552417 [20,] 3.043867 0.75793020 [,1] [,2] [1,] -1.51219872 2.6800850 [2,] 0.83125505 2.4163761 [3,] -0.56076404 2.0352200 [4,] -0.77117716 1.6971973 [5,] 0.43652210 2.5901121 [6,] -0.12159477 2.9436797 [7,] -0.13634826 1.5275241 [8,] 0.62947556 1.5341830 [9,] 0.34108802 1.9827862 [10,] 0.04129177 2.1118480 [11,] -0.23192308 1.9381594 [12,] -0.47975500 1.0862472 [13,] -0.43026849 0.7413257 [14,] -0.05222777 0.7909252 [15,] 0.56695230 0.7216451 [16,] -0.85090610 1.2034647 [17,] 1.02915949 2.1200904 [18,] 0.19550872 1.2357005 [19,] 0.24973953 1.5854003 [20,] 0.55102672 1.2634733 [,1] [,2] [1,] -0.1818946 0.42163116 [2,] 1.2123594 0.60960750 [3,] 2.1537273 -0.85733269 [4,] 0.9114492 -0.75746697 [5,] 2.3850601 -0.03552406 [6,] 2.2554952 0.49721204 [7,] 1.0726519 -0.19428928 [8,] 1.4824023 -0.36209995 [9,] 1.3713732 0.03449092 [10,] 1.8481290 -0.16226737 [11,] 1.9459488 -0.52589289 [12,] 1.7461505 -1.27484459 [13,] 1.4444495 -1.50935749 [14,] 1.1895910 -1.27367685 [15,] 0.5780869 -0.87326135 [16,] 0.7925469 -1.26442483 [17,] 1.6614004 0.58751083 [18,] 0.8500251 -0.30280640 [19,] 1.3099633 -0.65136131 [20,] 1.6860078 -0.78028386 [,1] [,2] [1,] 0.66820082 -0.192838873 [2,] -0.07926171 1.401016016 [3,] -1.61118106 1.210410090 [4,] -1.77510320 0.884796415 [5,] -0.44372681 1.611405953 [6,] -0.94082313 2.027751545 [7,] -1.20672863 0.855895493 [8,] -0.82134770 0.350300098 [9,] -0.81185193 1.159360230 [10,] -1.13599077 1.279025835 [11,] -0.60171504 0.849262415 [12,] -1.43738797 0.185339127 [13,] -1.68283766 -0.004562703 [14,] -1.76366590 0.437038052 [15,] -0.78224427 -0.256247743 [16,] -1.18866686 -0.202436994 [17,] 0.07335106 1.107178873 [18,] -0.42943069 0.543873784 [19,] -0.50788694 0.279502011 [20,] -1.01215754 0.614970306 [,1] [,2] [1,] 2.9398474 -0.40713343 [2,] 1.0829092 -1.24638837 [3,] 1.7400963 -0.25635162 [4,] 1.8519209 0.12560985 [5,] 0.4653996 -0.98167801 [6,] 1.8121632 -1.26577751 [7,] 0.4774783 -0.05171174 [8,] 0.9475253 -0.21639862 [9,] 1.3502288 -0.64442137 [10,] 0.8759650 -0.58386641 [11,] 1.4424960 -0.33132341 [12,] 0.7921454 0.61180890 [13,] 1.0424507 0.84420084 [14,] 1.3225278 0.58832196 [15,] 0.2003800 0.40476465 [16,] 1.7284499 0.61080705 [17,] 0.7789718 -1.24751585 [18,] 1.2183434 0.03229503 [19,] 0.5034430 -0.31861803 [20,] 0.7806259 0.10741903

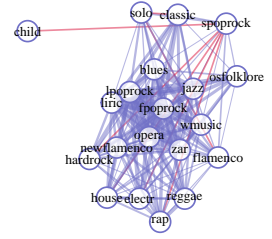
**Module #3**



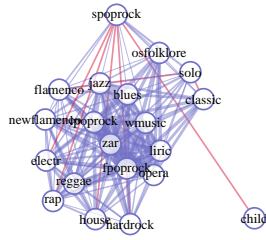
**Module #3**



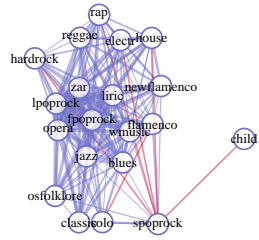
**Module #3**



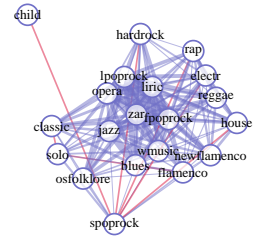
**Module #3**



**Module #3**



**Module #3**



[1,] [2,] [1,] 2.206506 1.07365516 [2,] 2.548825 -0.61439790 [3,] 3.970602 -0.83573686 [4,] 4.284378 -0.62808147  
[5,] 2.837679 -0.91072358 [6,] 3.192680 -1.46202664 [7,] 3.304079 0.32128526 [8,] 3.806910 -0.19149040 [9,]  
3.432243 -0.74846085 [10,] 3.133969 -0.33515948 [11,] 3.690422 -0.57543470 [12,] 4.347250 0.06866959 [13,]  
4.088369 0.63444065 [14,] 4.229367 0.33791561 [15,] 3.488993 0.84082918 [16,] 4.583113 -0.23644519 [17,]  
2.480055 -0.27444934 [18,] 3.621670 0.20075079 [19,] 3.109358 0.12169262 [20,] 3.443572 -0.13523983

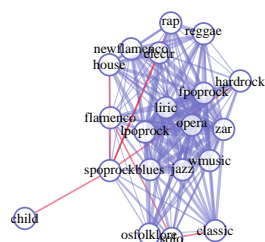


### 1.2.3.2 Module 3 - Kamada Kawai Layout - Color

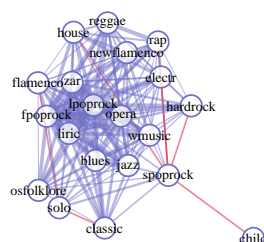
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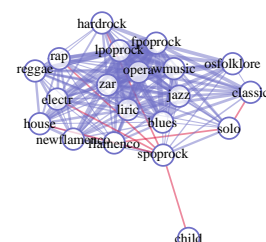
Module #3



Module #3



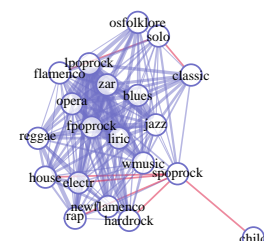
Module #3



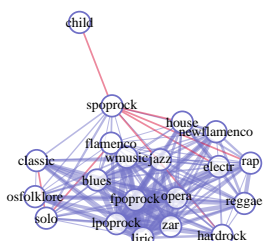
Module #3



Module #3

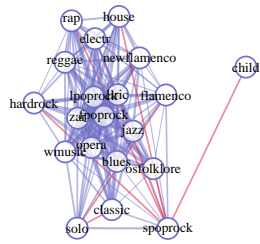


Module #3



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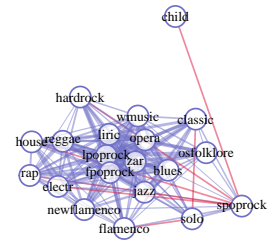
Module #3



Module #3



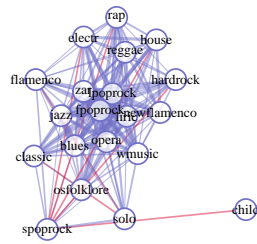
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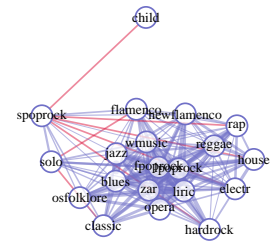
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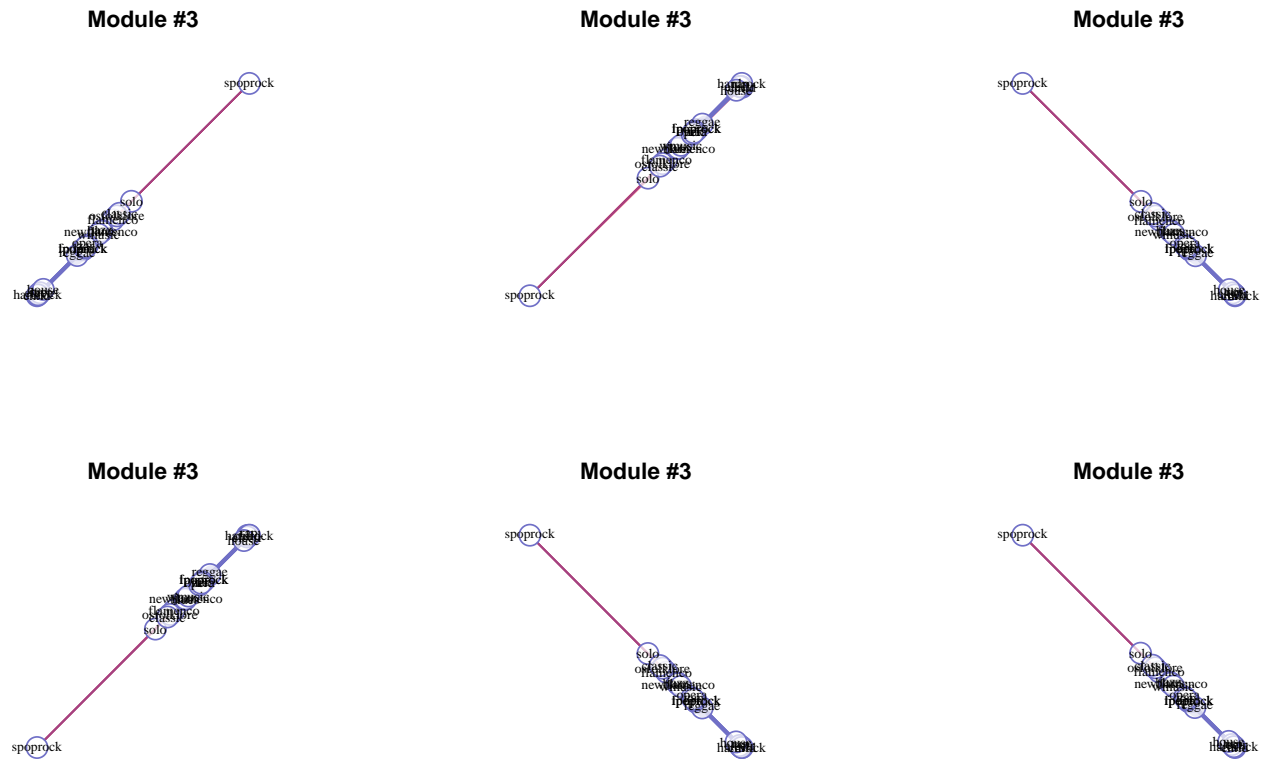
Module #3



Module #3



### 1.2.3.3 Module 3 - Fruchtername Reingold Layout - Color - Drop Neg Ties for Layout



#### 1.2.3.4 Module 3 - Fruchtername Reingold Layout - Color

## 2 RCA

### 2.1 RCA $P = 0.05$

	Length	Class	Mode
member	14822	-none-	numeric
mod	1	-none-	numeric
merge	56	-none-	numeric

## 2.2 RCA $P = 0.075$

	Length	Class	Mode
member	14822	-none-	numeric
mod	1	-none-	numeric
merge	52	-none-	numeric

### 2.3 RCA $P = 0.1$

	Length	Class	Mode
member	14822	-none-	numeric
mod	1	-none-	numeric
merge	54	-none-	numeric

## 2.4 RCA $P = 0.25$

	Length	Class	Mode
member	14822	-none-	numeric
mod	1	-none-	numeric
merge	4	-none-	numeric



## 2.5 RCA $P = 0.5$

	Length	Class	Mode
member	14822	-none-	numeric
mod	1	-none-	numeric
merge	2	-none-	numeric