

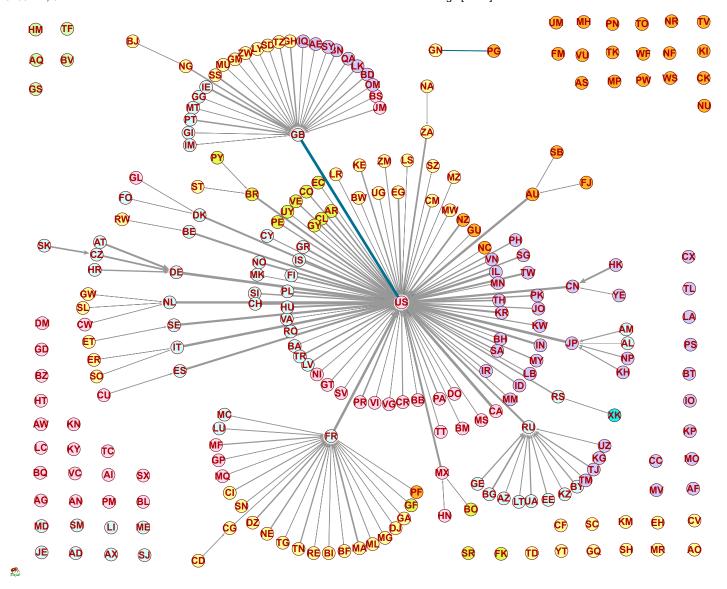
1-neighbors

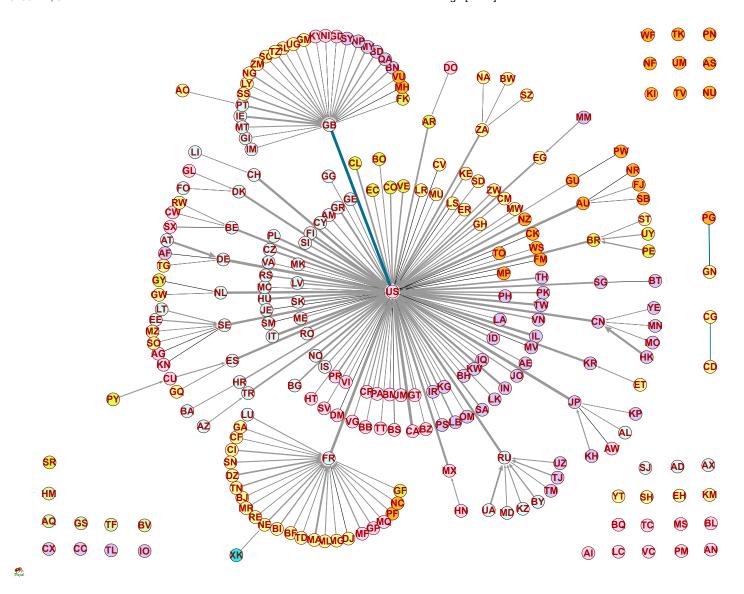
For selected years 1990, 1995, 2000, 2005, 2010, 2015, and 2020 we determined the 1-neighbors skeletons and produced their visualizations.

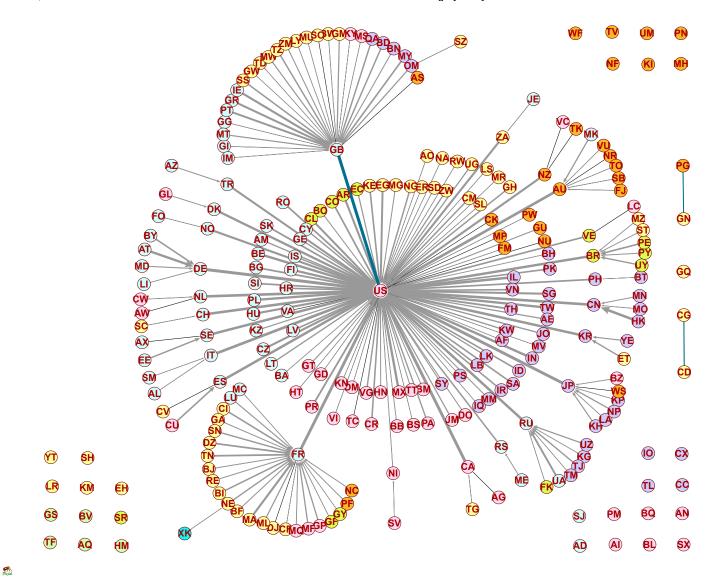
We prepared a Pajek macro 1-neighbors.mcr

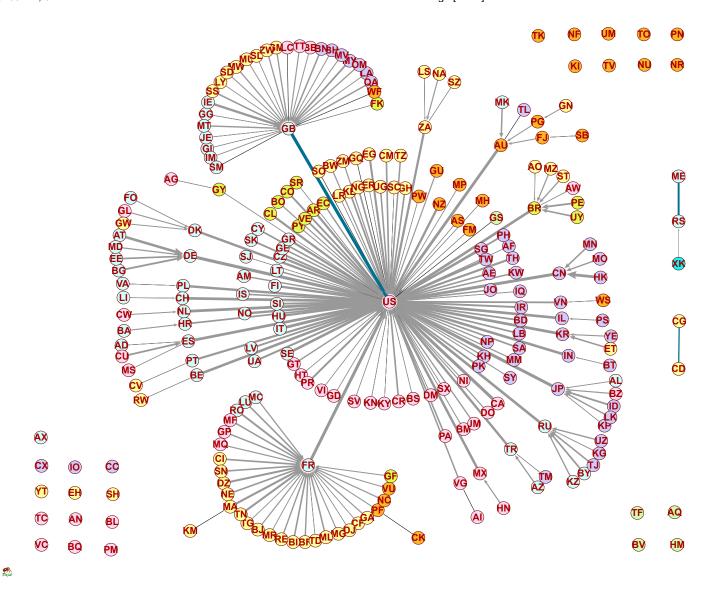
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NETBEGIN 2
CLUBEGIN 1
PERBEGIN 1
CLSBEGIN 1
HTEREGTN 1
VECBEGIN 1
NETPARAM 1
% Removing loops
N 2 DLOOPS 1 (251)
% Ln of Line Values
N 3 LNLINVAL 2 1 (251)
\ensuremath{\mathrm{\%}} Sorting and removing arcs with lowest values
N 4 REMLINVALVERT 3 1 2 0 (251)
% Converting bidirectional Arcs to Edges
N 4 BATOEMIN 4 (251)
N 4 NETNAME 1-neighbors
% Reading Partition
                               continents.clu
C 1 RDC "?" (251)
% Loading INI File
LOADINI "1-WorldCo.ini"
% Reading Vector
V 1 RDV "?" (251)
% Reading Vector
V 2 RDV "?" (251)
                            y.vec
% Putting Coordinate(s)
N 5 PUTCOORD 1 4 [1,1] (251)
% Putting Coordinate(s)
N 6 PUTCOORD 2 5 [2,1] (251)
E 6 DRAW 1 0 0 0 0
```

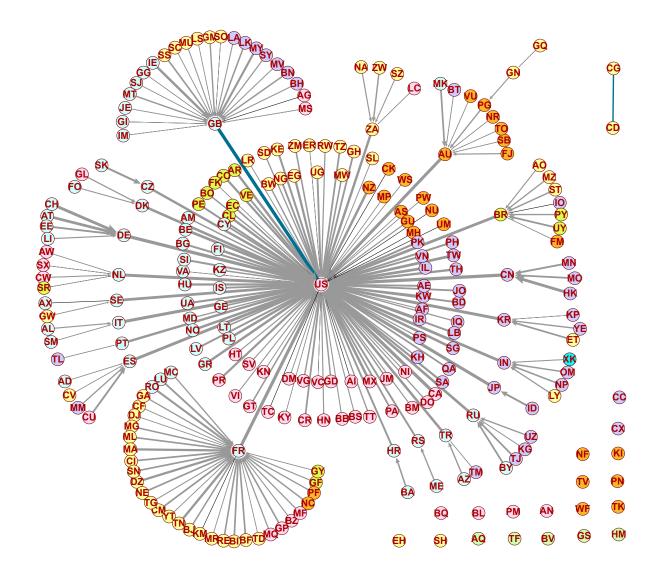
In the co-authorship network for a selected year, we first remove loops. Afterward, we transform the weights using logarithms ln(w). By removing in each node all links except the strongest (largest weight) we get the 1-neighbors skeleton. We replace pairs of opposite arcs with edges and read the partition continents.clu. To get the initial picture we load the ini file used in making the picture of the total (all years included) co-authorship network and assign to nodes the coordinates from that picture. Finally we draw the picture and manually improve it and save.



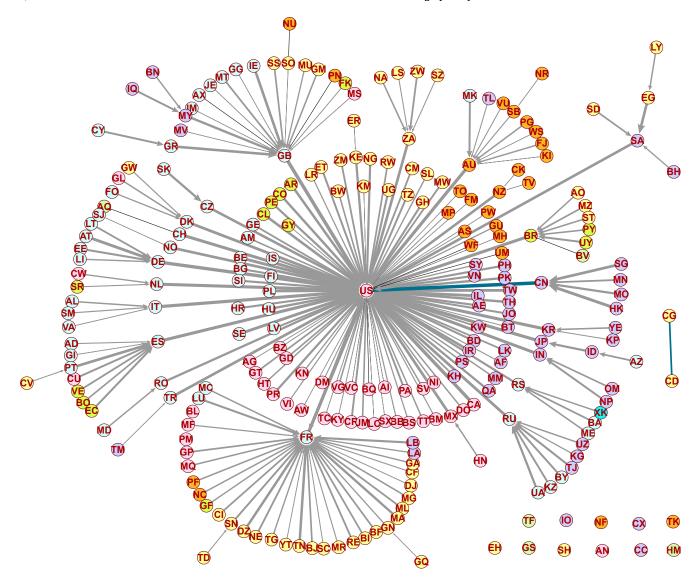




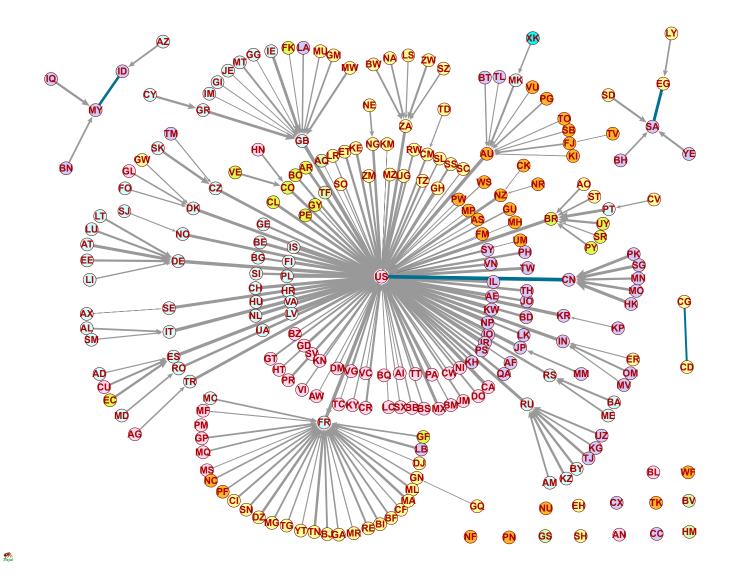




Pajate



Pajate



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