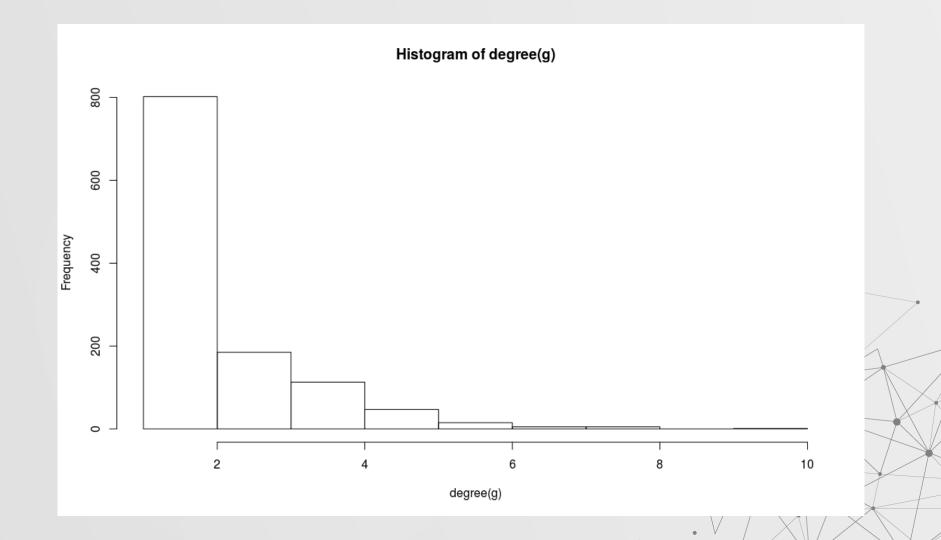
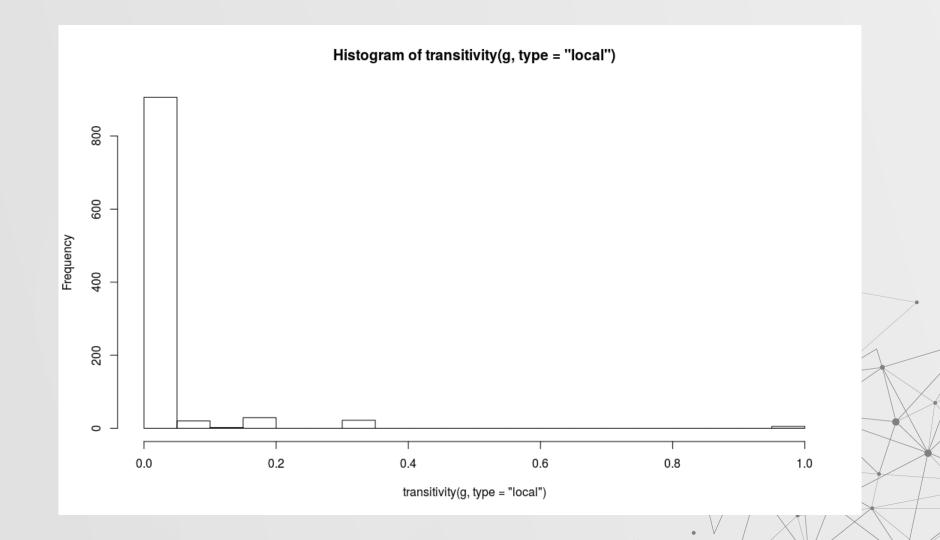
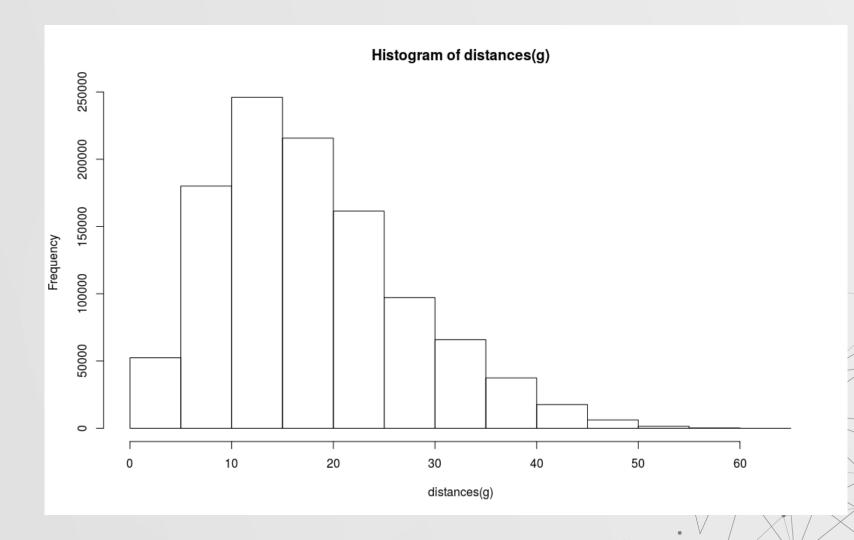


EuroRoad

	Value	Time in seconds	
Degree	Avg 2.414322, max 10	0.0013	
Betweenness	Avg 116.1535	0.007	
Number of connected components	26	0.006	
Clustering coefficient	0.03391028	0.052	
pagerank	0.0008525149	0.006	
shorthest paths	8.782487	0.217	
diameter	41 (largest component)	0.007	
network density	0.001030001	0.006	
closeness	7.37621204528284e-07	0.011	

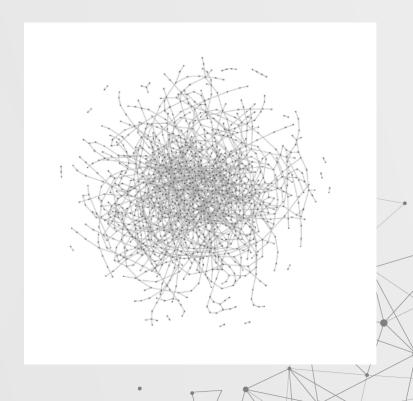






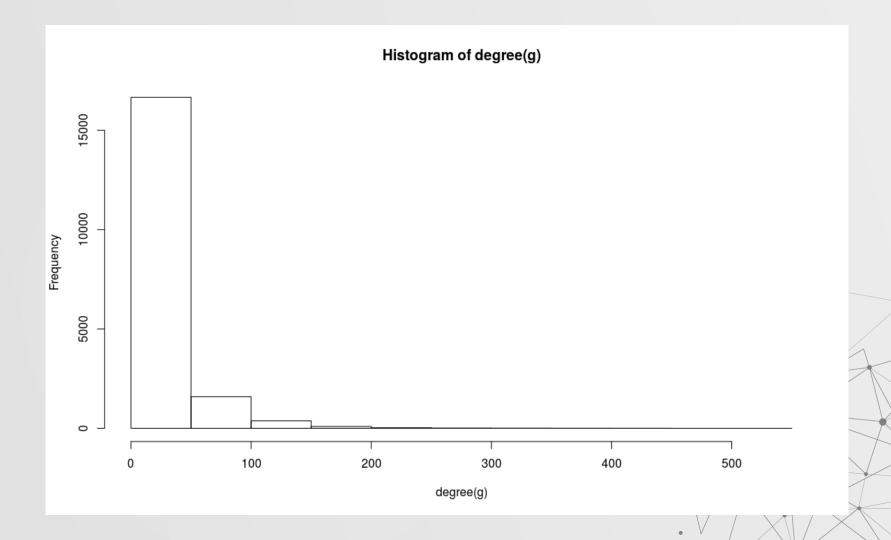
Visualization

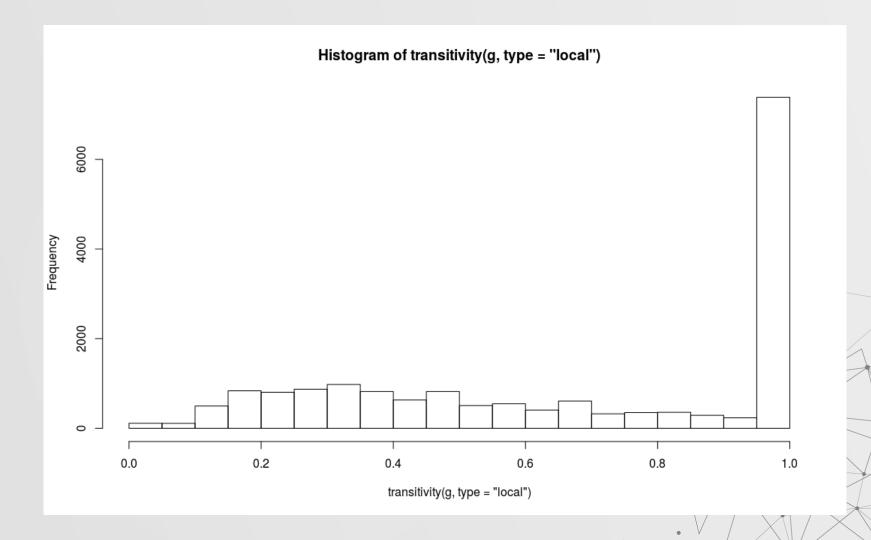


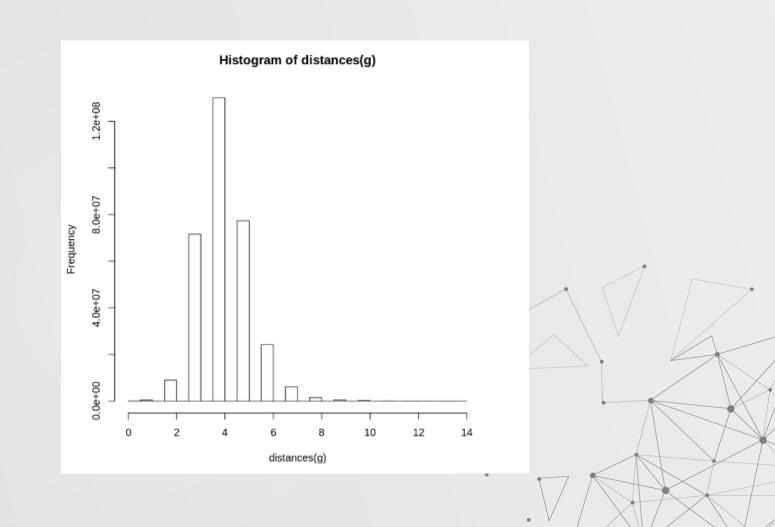


Ca-AstroPh

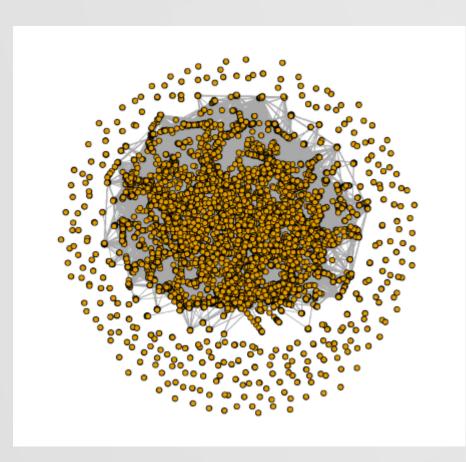
	Value	Time in seconds	
Degree	Avg 21.10159	0.007	
Betweenness	Avg 13047.849	7.699	
Number of connected components	289	0.015	
Clustering coefficient	0.318002528143559	0.081	
pagerank	5.32736668264877e-05	0.019	
shorthest paths	4.93853583560696	67.105	
diameter	22	3.529	
network density	0.0005621	0.006	
closeness	5.13647237711114e-09	4.096	

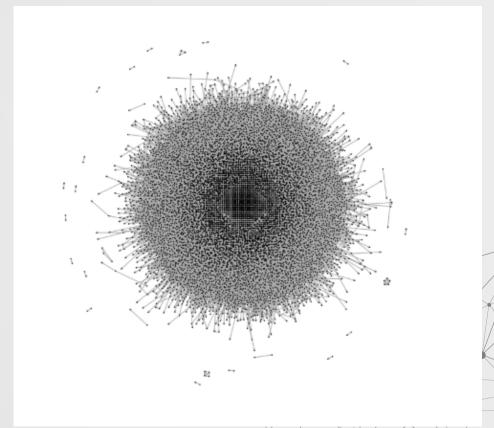






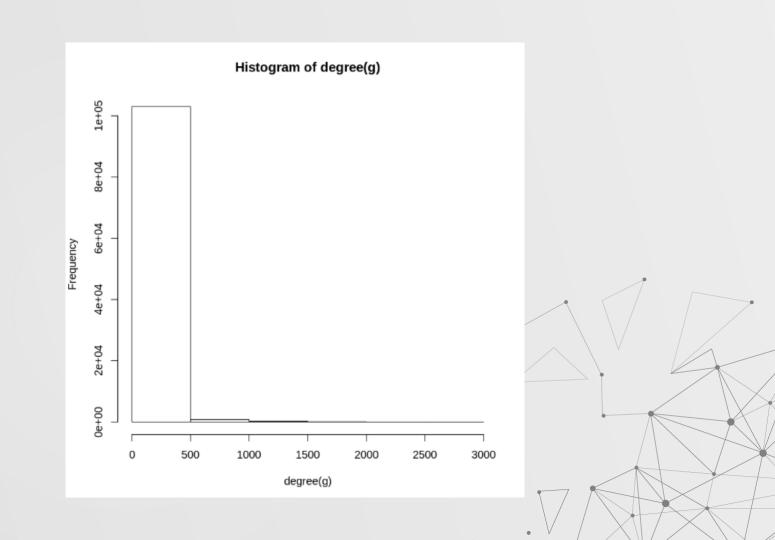
Visualization

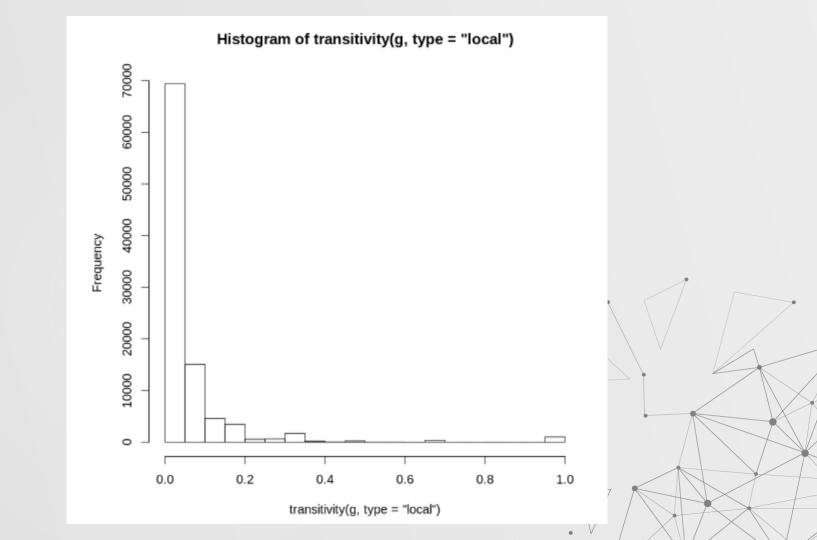




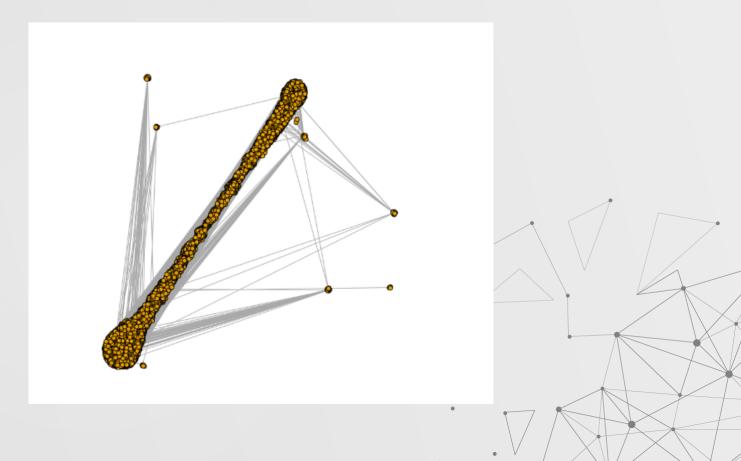
livemocha

	Value	Time in seconds	
Degree	42.1333	0.018	
Betweenness	61302.053	641.82	
Number of connected components	1	0.07	
Clustering coefficient	0.0140789	0.808	
pagerank	9.60596338206759e-06	0.322	
shorthest paths	Avg 4.09296248648373	Crashed ⊗	
diameter	23	182.396	
network density	0.000202367467938907	0.005	
closeness	1.83535151121034e-10	200.722	





Visualization



Time comparison

	Euroroad	AstroPh	Livemocha
Degree	0.0013	0.007	0.018
Betweenness	0.007	7.699	641.82
closeness	0.011	4.096	200.722
Number of connected components	0.006	0.015	0.07
Clustering coefficient	0.052	0.081	0.808
pagerank	0.006	0.019	0.322
shorthest paths	0.217	67.105	Crashed ®
diameter	0.007	3.529	182.396
network density	0.006	0.006	0.005

Advantages and Disadvantages R+igraph

Pluses:

Good documentation
Very easy to use
Plenty of avaiable layouts

Minuses:

Bad performance with visualization of large networks RAM demanding Sometimes confusing syntax

