

Forbes 2000 Correlation Network Analysis

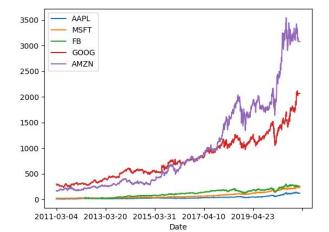
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Data Collection

- Scrape companies names https://www.forbes.com/gl
 obal2000/
- Scrape the tickers, e.g.
 Amazon has ticker
 'AMZN', for all companies
- Download stock data
- Calculating pairwise correlation and construct the network

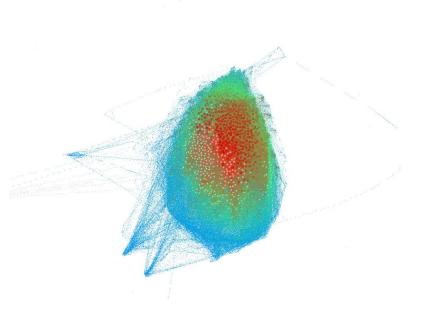
Company	Country	Sales	Profits	Assets	Market Value
ICBC	China	177230	45283.6	4322528	242283
China Construction Bank	China	162147	38914.8	3822048	203818
JPMorgan Chase	United States	142927	29954	3139431	291737
Berkshire Hathaway	United States	254616	81417	817729	455444
Agricultural Bank of China	China	148692	30911.6	3697451	147174
Saudi Arabian Oil Company (Saudi Aramco)	Saudi Arabia	329762	88205	398296	1684765
Ping An Insurance Group	China	154952	18750.9	1218615	187215
Bank of America	United States	112065	24129	2619954	208646
Apple	United States	267712	57215	320400	1285516



1398.hk 0939.hk 0.954883951562283 1398.hk JPM 1.07302720147052E-48 1398.hk BRK-A 0.220250632451891 1398.hk ACGBY 0.431729339741908 1398.hk 2222.SR -0.136446175155932 1398.hk 2318.hk 0.390487935600457 1398.hk BAC 0.361096221872179 3.3861127793263E-77 1398.hk AAPL -0.0146426486443 0.745056684552215 1398.hk 3988.hk -0.037653417232246 1398.hk T 1398.hk TM 0.218320401284591 1398.hk GOOG 0.08354363918042 3.12796713581881E-05



Network



Make a link between 2 nodes when |correlation| > 0.7 (strong correlation)

- 1955 nodes
- · 298546 links
- average degree: 305.418
- network density: 0.15630394207435988

Tampere University

Thank you!