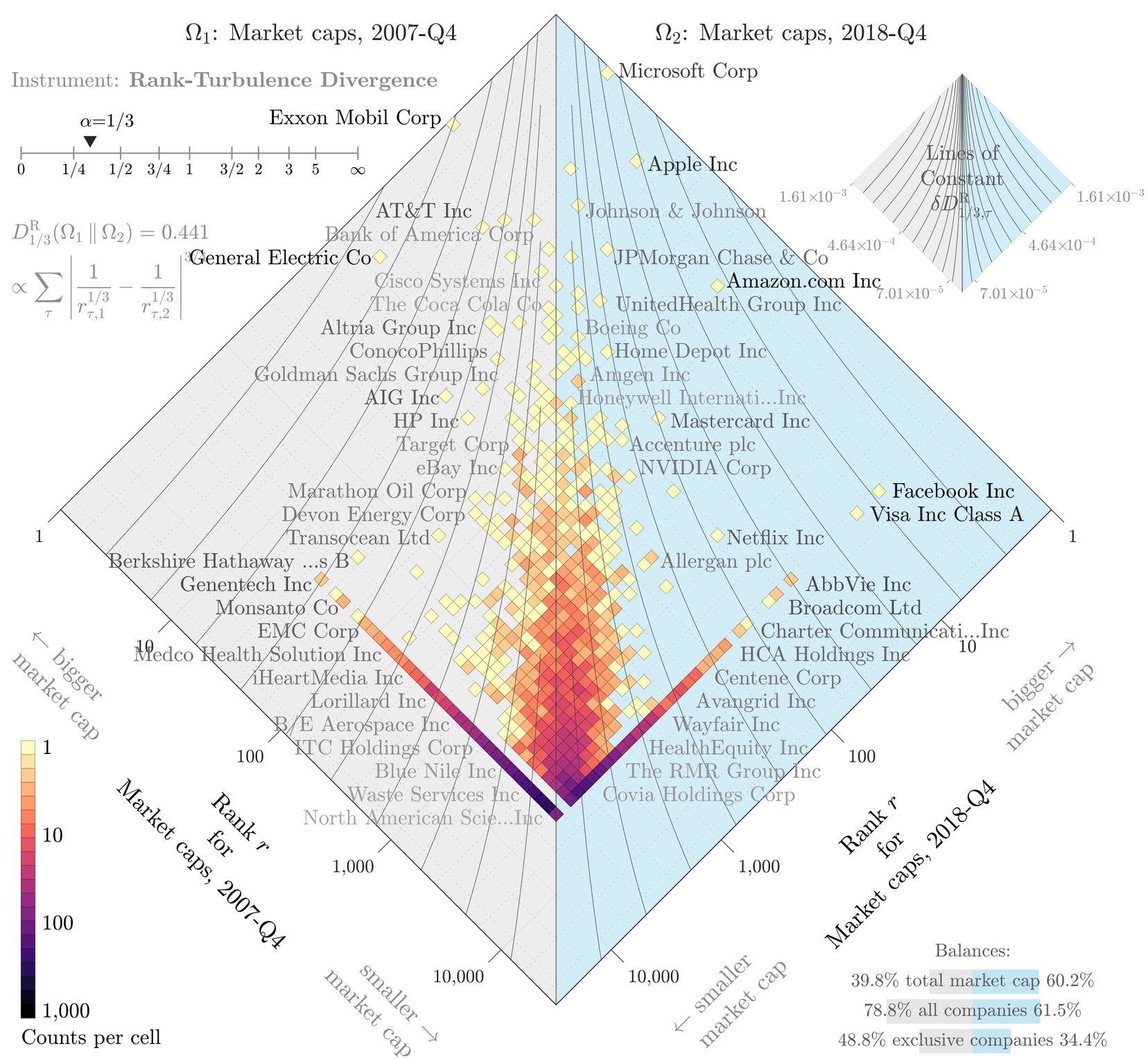
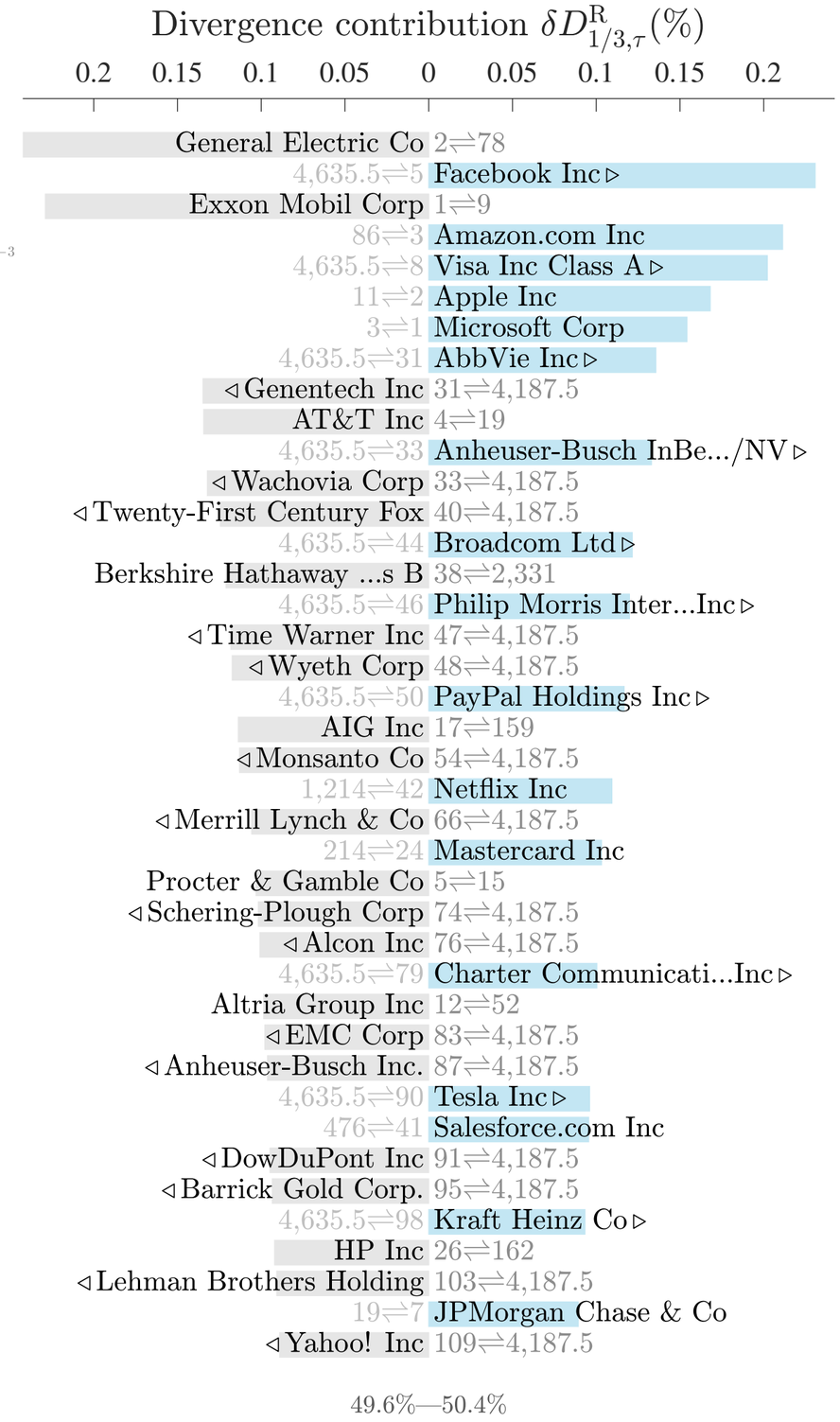

Ω_1: Market caps, 2007-Q4
Ω_2: Market caps, 2018-Q4
Instrument: Rank-Turbulence Divergence
α=1/3
0 1/4 1/2 3/4 1 3/2 2 3 5 ∞
$D^{\mathrm{R}}_{1/3}(\Omega_1 \parallel \Omega_2) = 0.441$
$\propto \sum_\tau \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|$
Lines of Constant $\delta D^{\mathrm{R}}_{1/3,\tau}$
1.61×10^{-3}
4.64×10^{-4}
7.01×10^{-5}
Exxon Mobil Corp
General Electric Co
AT&T Inc
Bank of America Corp
Cisco Systems Inc
The Coca Cola Co
Altria Group Inc
ConocoPhillips
Goldman Sachs Group Inc
AIG Inc
HP Inc
Target Corp
eBay Inc
Marathon Oil Corp
Devon Energy Corp
Transocean Ltd
Berkshire Hathaway ...s B
Genentech Inc
Monsanto Co
EMC Corp
Medco Health Solution Inc
iHeartMedia Inc
Lorillard Inc
B/E Aerospace Inc
ITC Holdings Corp
Blue Nile Inc
Waste Services Inc
North American Scie...Inc
Microsoft Corp
Apple Inc
Johnson & Johnson
JPMorgan Chase & Co
Amazon.com Inc
UnitedHealth Group Inc
Boeing Co
Home Depot Inc
Amgen Inc
Honeywell Internati...Inc
Mastercard Inc
Accenture plc
NVIDIA Corp
Facebook Inc
Visa Inc Class A
Netflix Inc
Allergan plc
AbbVie Inc
Broadcom Ltd
Charter Communicati...Inc
HCA Holdings Inc
Centene Corp
Avangrid Inc
Wayfair Inc
HealthEquity Inc
The RMR Group Inc
Covia Holdings Corp
1
10
100
1,000
10,000
← bigger market cap
smaller → market cap
Rank r for Market caps, 2007-Q4
Rank r for Market caps, 2018-Q4
← smaller market cap
bigger → market cap
Counts per cell
Balances:
39.8% total market cap 60.2%
78.8% all companies 61.5%
48.8% exclusive companies 34.4%


Divergence contribution $\delta D^{\mathrm{R}}_{1/3,\tau}(\%)$
0.2 0.15 0.1 0.05 0 0.05 0.1 0.15 0.2
General Electric Co 2⇌78
4,635.5⇌5 Facebook Inc ▷
Exxon Mobil Corp 1⇌9
86⇌3 Amazon.com Inc
4,635.5⇌8 Visa Inc Class A ▷
11⇌2 Apple Inc
3⇌1 Microsoft Corp
4,635.5⇌31 AbbVie Inc ▷
◁ Genentech Inc 31⇌4,187.5
AT&T Inc 4⇌19
4,635.5⇌33 Anheuser-Busch InBe.../NV ▷
◁ Wachovia Corp 33⇌4,187.5
◁ Twenty-First Century Fox 40⇌4,187.5
4,635.5⇌44 Broadcom Ltd ▷
Berkshire Hathaway ...s B 38⇌2,331
4,635.5⇌46 Philip Morris Inter...Inc ▷
◁ Time Warner Inc 47⇌4,187.5
◁ Wyeth Corp 48⇌4,187.5
4,635.5⇌50 PayPal Holdings Inc ▷
AIG Inc 17⇌159
◁ Monsanto Co 54⇌4,187.5
1,214⇌42 Netflix Inc
◁ Merrill Lynch & Co 66⇌4,187.5
214⇌24 Mastercard Inc
Procter & Gamble Co 5⇌15
◁ Schering-Plough Corp 74⇌4,187.5
◁ Alcon Inc 76⇌4,187.5
4,635.5⇌79 Charter Communicati...Inc ▷
Altria Group Inc 12⇌52
◁ EMC Corp 83⇌4,187.5
◁ Anheuser-Busch Inc. 87⇌4,187.5
4,635.5⇌90 Tesla Inc ▷
476⇌41 Salesforce.com Inc
◁ DowDuPont Inc 91⇌4,187.5
◁ Barrick Gold Corp. 95⇌4,187.5
4,635.5⇌98 Kraft Heinz Co ▷
HP Inc 26⇌162
◁ Lehman Brothers Holding 103⇌4,187.5
19⇌7 JPMorgan Chase & Co
◁ Yahoo! Inc 109⇌4,187.5
49.6%—50.4%