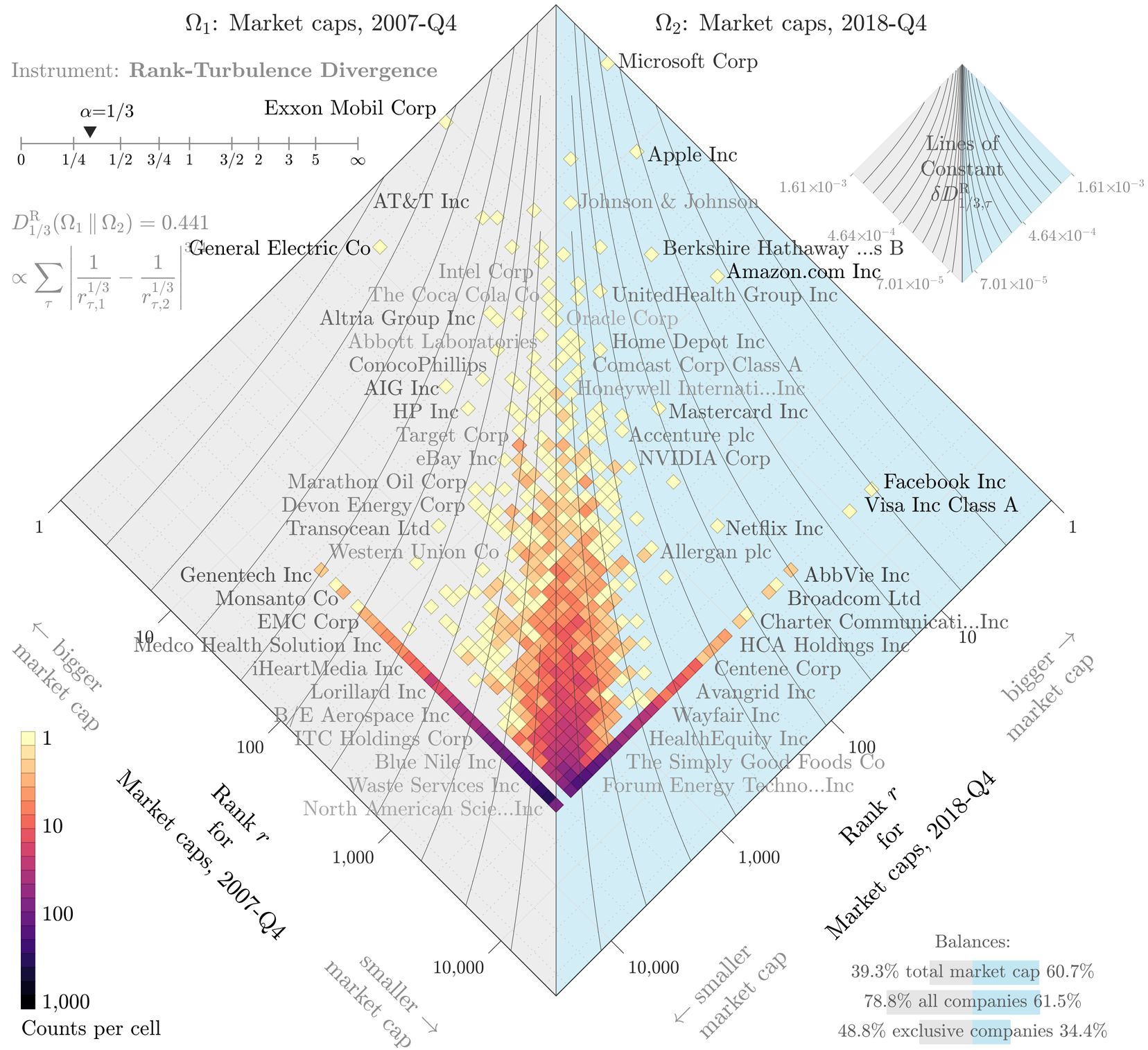
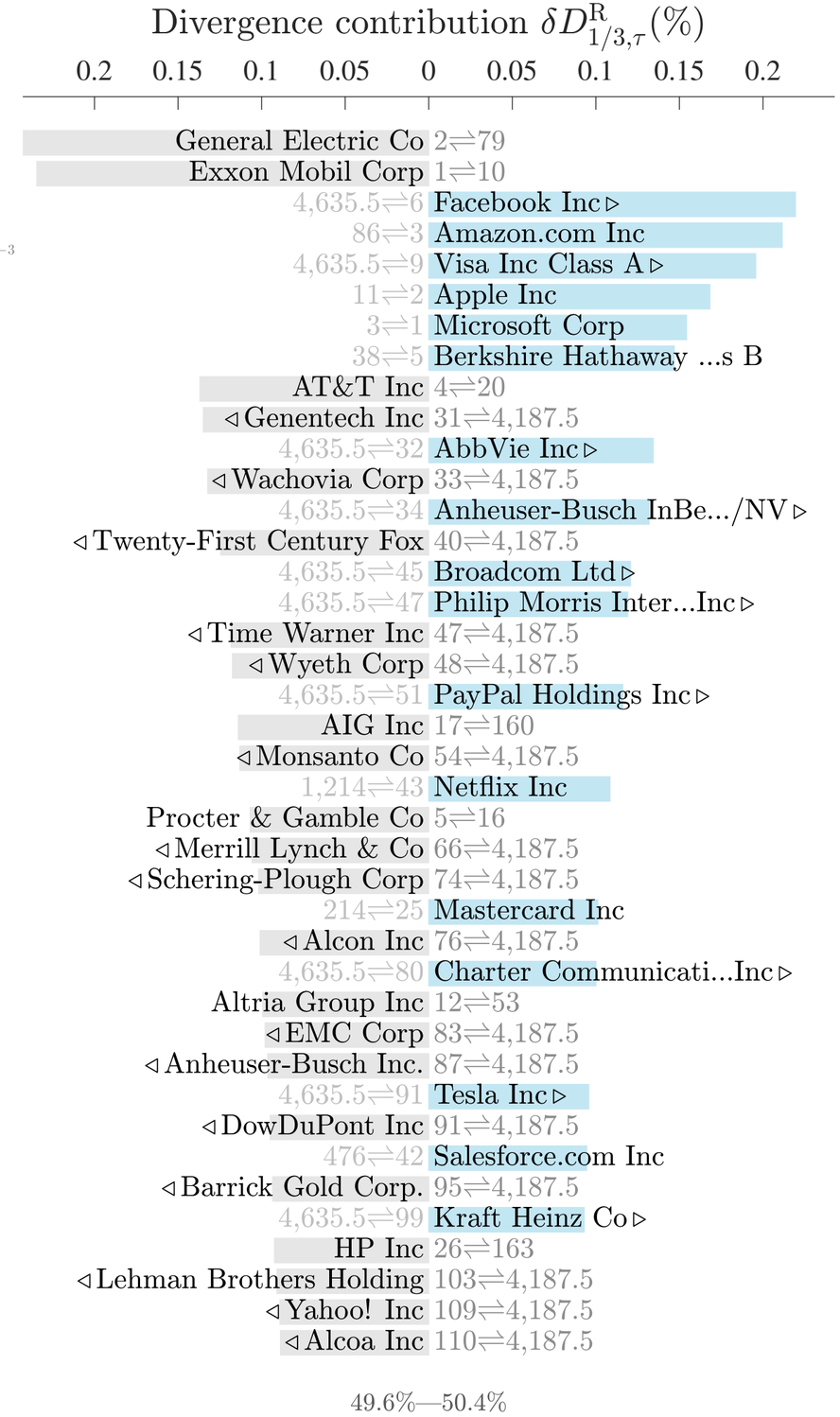

Ω_1: Market caps, 2007-Q4
Ω_2: Market caps, 2018-Q4
Instrument: **Rank-Turbulence Divergence**
α=1/3
0 1/4 1/2 3/4 1 3/2 2 3 5 ∞
$D^{\mathrm{R}}_{1/3}(\Omega_1 \parallel \Omega_2) = 0.441$
$\propto \sum_\tau \left| \frac{1}{r^{1/3}_{\tau,1}} - \frac{1}{r^{1/3}_{\tau,2}} \right|$
Lines of Constant $\delta D^{\mathrm{R}}_{1/3,\tau}$
1.61×10⁻³
4.64×10⁻⁴
7.01×10⁻⁵
Exxon Mobil Corp
General Electric Co
AT&T Inc
Intel Corp
The Coca Cola Co
Altria Group Inc
Abbott Laboratories
ConocoPhillips
AIG Inc
HP Inc
Target Corp
eBay Inc
Marathon Oil Corp
Devon Energy Corp
Transocean Ltd
Western Union Co
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
Berkshire Hathaway ...s B
Amazon.com Inc
UnitedHealth Group Inc
Oracle Corp
Home Depot Inc
Comcast Corp Class A
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 Simply Good Foods Co
Forum Energy Techno...Inc
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
1
10
100
1,000
Counts per cell
Balances:
39.3% total market cap 60.7%
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⇌79
Exxon Mobil Corp 1⇌10
4,635.5⇌6 Facebook Inc ▹
86⇌3 Amazon.com Inc
4,635.5⇌9 Visa Inc Class A ▹
11⇌2 Apple Inc
3⇌1 Microsoft Corp
38⇌5 Berkshire Hathaway ...s B
AT&T Inc 4⇌20
◃ Genentech Inc 31⇌4,187.5
4,635.5⇌32 AbbVie Inc ▹
◃ Wachovia Corp 33⇌4,187.5
4,635.5⇌34 Anheuser-Busch InBe.../NV ▹
◃ Twenty-First Century Fox 40⇌4,187.5
4,635.5⇌45 Broadcom Ltd ▹
4,635.5⇌47 Philip Morris Inter...Inc ▹
◃ Time Warner Inc 47⇌4,187.5
◃ Wyeth Corp 48⇌4,187.5
4,635.5⇌51 PayPal Holdings Inc ▹
AIG Inc 17⇌160
◃ Monsanto Co 54⇌4,187.5
1,214⇌43 Netflix Inc
Procter & Gamble Co 5⇌16
◃ Merrill Lynch & Co 66⇌4,187.5
◃ Schering-Plough Corp 74⇌4,187.5
214⇌25 Mastercard Inc
◃ Alcon Inc 76⇌4,187.5
4,635.5⇌80 Charter Communicati...Inc ▹
Altria Group Inc 12⇌53
◃ EMC Corp 83⇌4,187.5
◃ Anheuser-Busch Inc. 87⇌4,187.5
4,635.5⇌91 Tesla Inc ▹
◃ DowDuPont Inc 91⇌4,187.5
476⇌42 Salesforce.com Inc
◃ Barrick Gold Corp. 95⇌4,187.5
4,635.5⇌99 Kraft Heinz Co ▹
HP Inc 26⇌163
◃ Lehman Brothers Holding 103⇌4,187.5
◃ Yahoo! Inc 109⇌4,187.5
◃ Alcoa Inc 110⇌4,187.5
49.6%—50.4%