

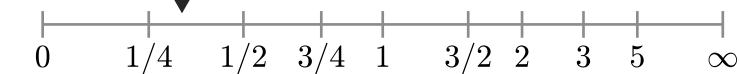
$\Omega_1$ : Twitter on 2016/11/09, top  $10^{1.5}$

$\Omega_2$ : Twitter on 2017/08/13, top  $10^{1.5}$

Divergence contribution  $\delta D_{1/3,\tau}^R$  (%)

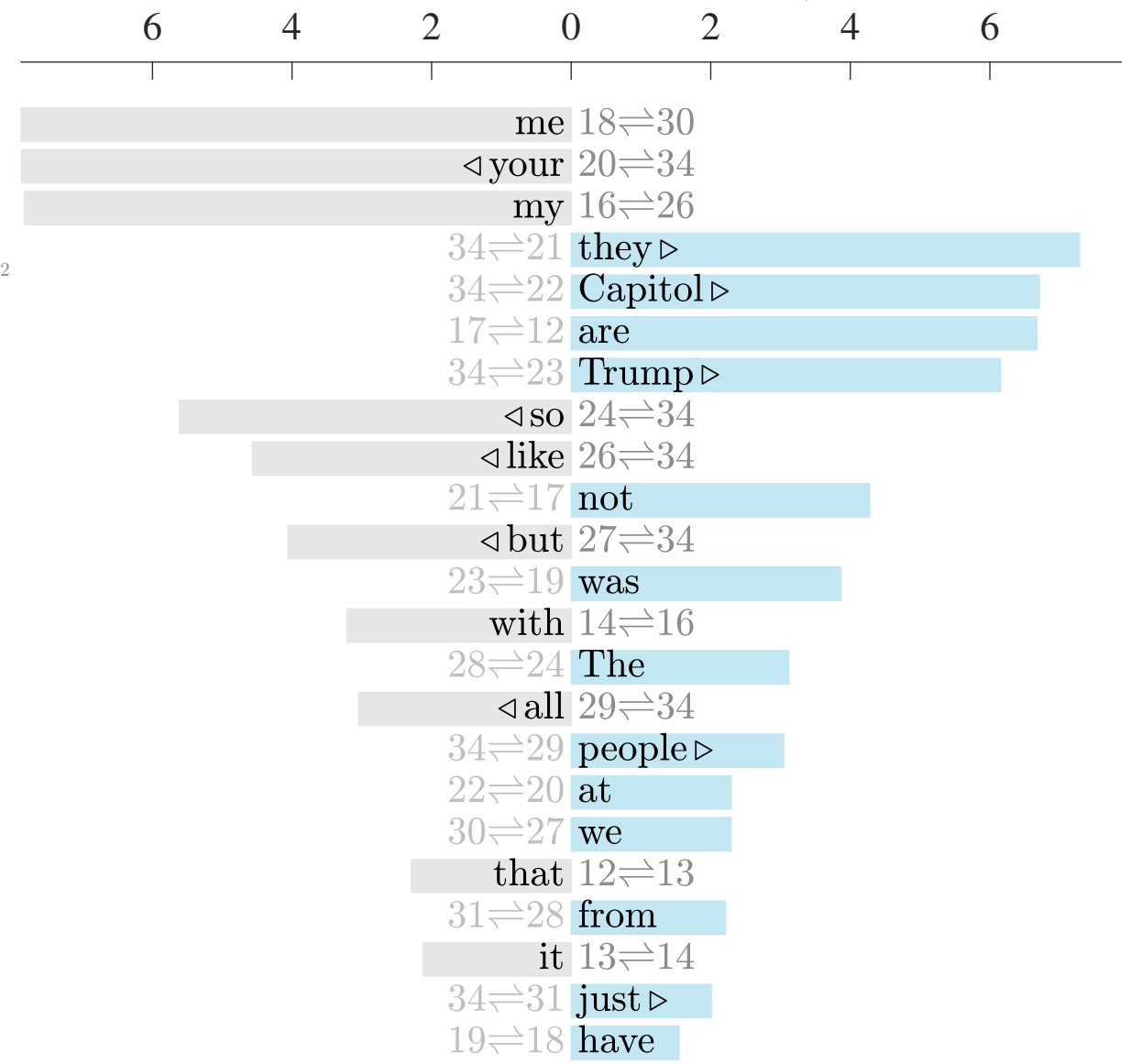
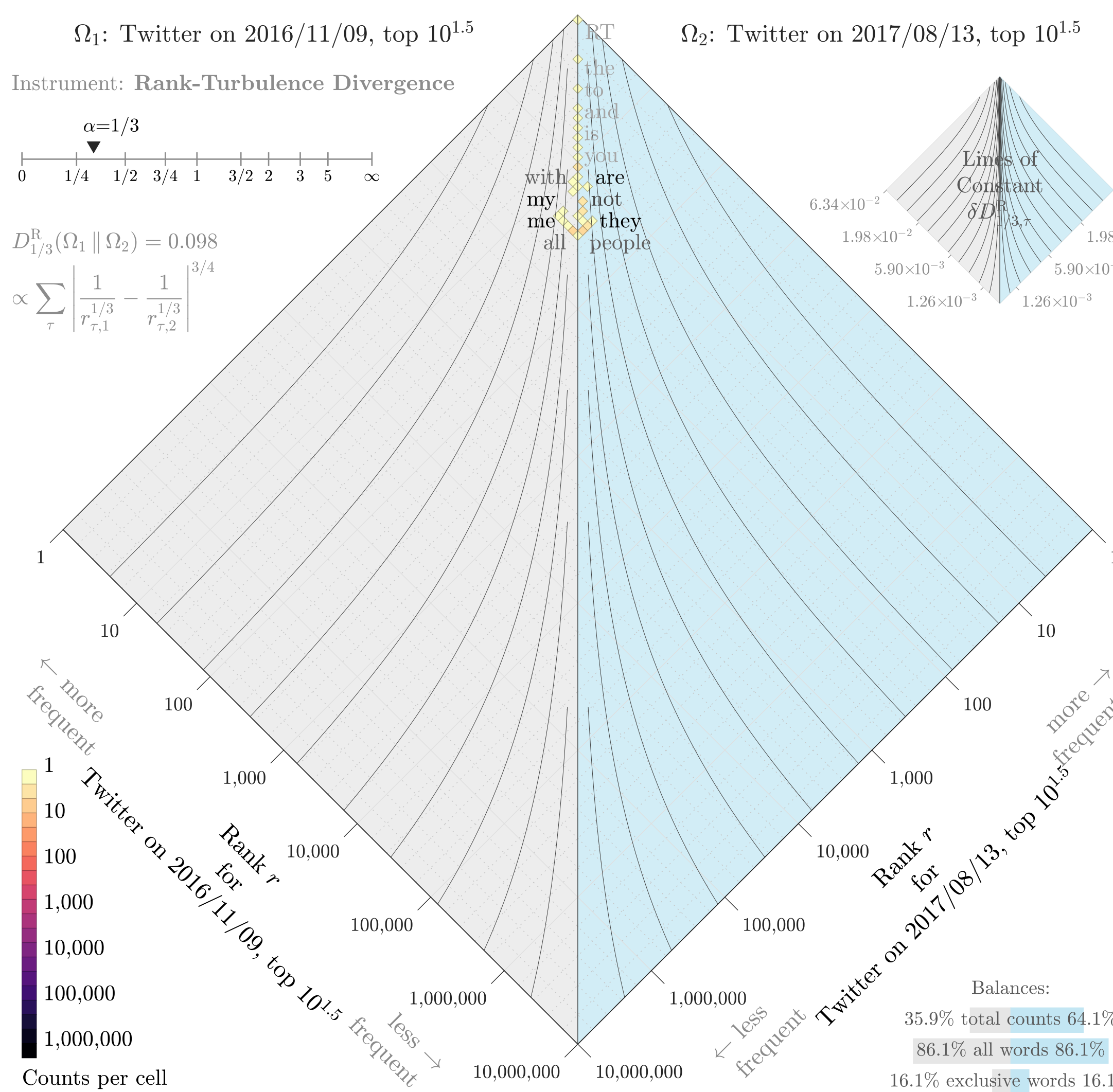
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.098$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



Balances:  
 35.9% total counts 64.1%  
 86.1% all words 86.1%  
 16.1% exclusive words 16.1%

48.5%—51.5%

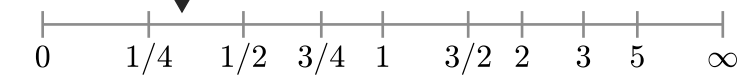
$\Omega_1$ : Twitter on 2016/11/09, top  $10^{2.0}$

$\Omega_2$ : Twitter on 2017/08/13, top  $10^{2.0}$

Divergence contribution  $\delta D_{1/3,\tau}^R$  (%)

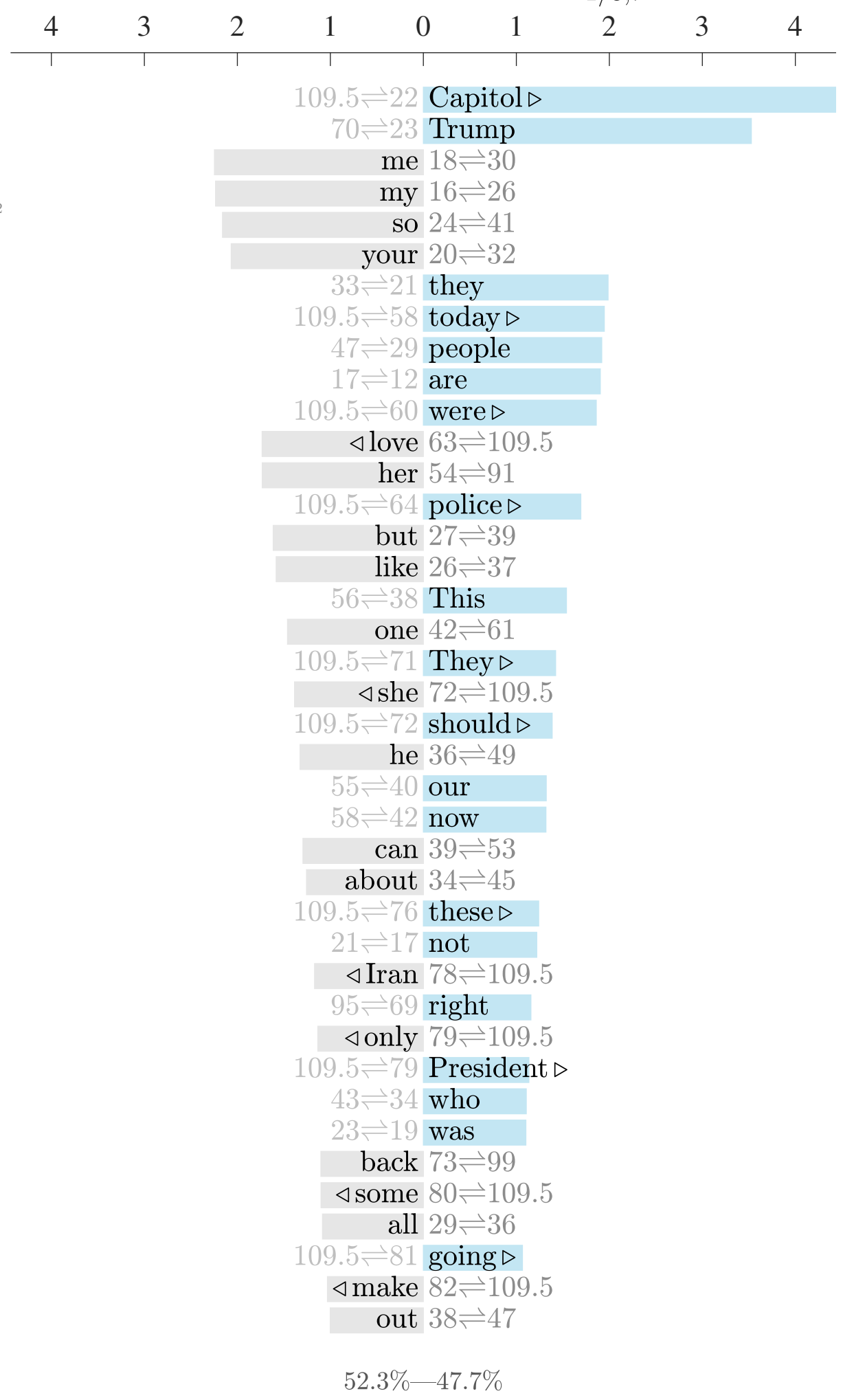
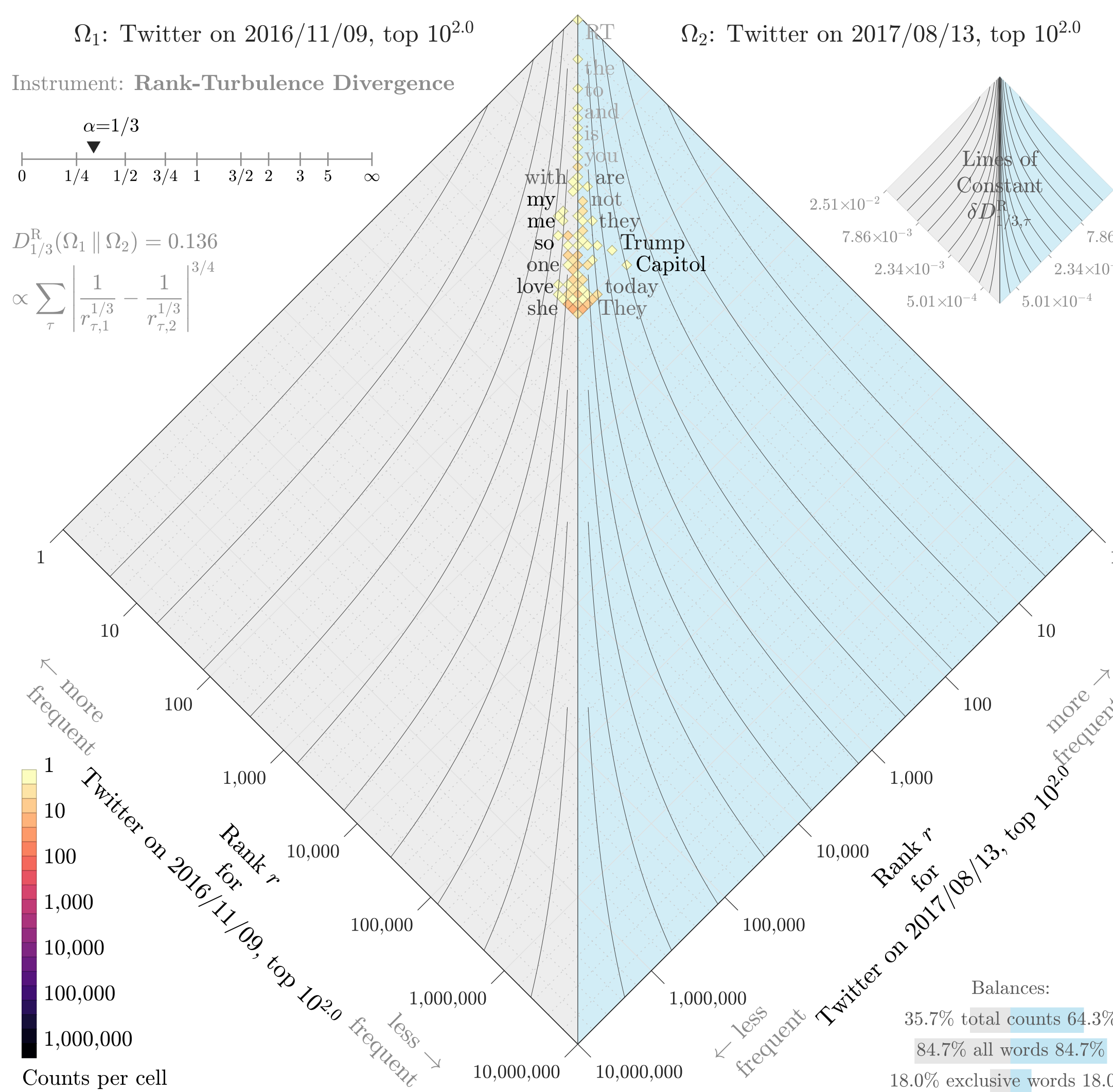
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.136$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



Balances:  
 35.7% total counts 64.3%  
 84.7% all words 84.7%  
 18.0% exclusive words 18.0%

52.3%—47.7%

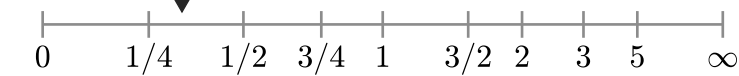
$\Omega_1$ : Twitter on 2016/11/09, top  $10^{2.5}$

$\Omega_2$ : Twitter on 2017/08/13, top  $10^{2.5}$

Divergence contribution  $\delta D_{1/3,\tau}^R$  (%)

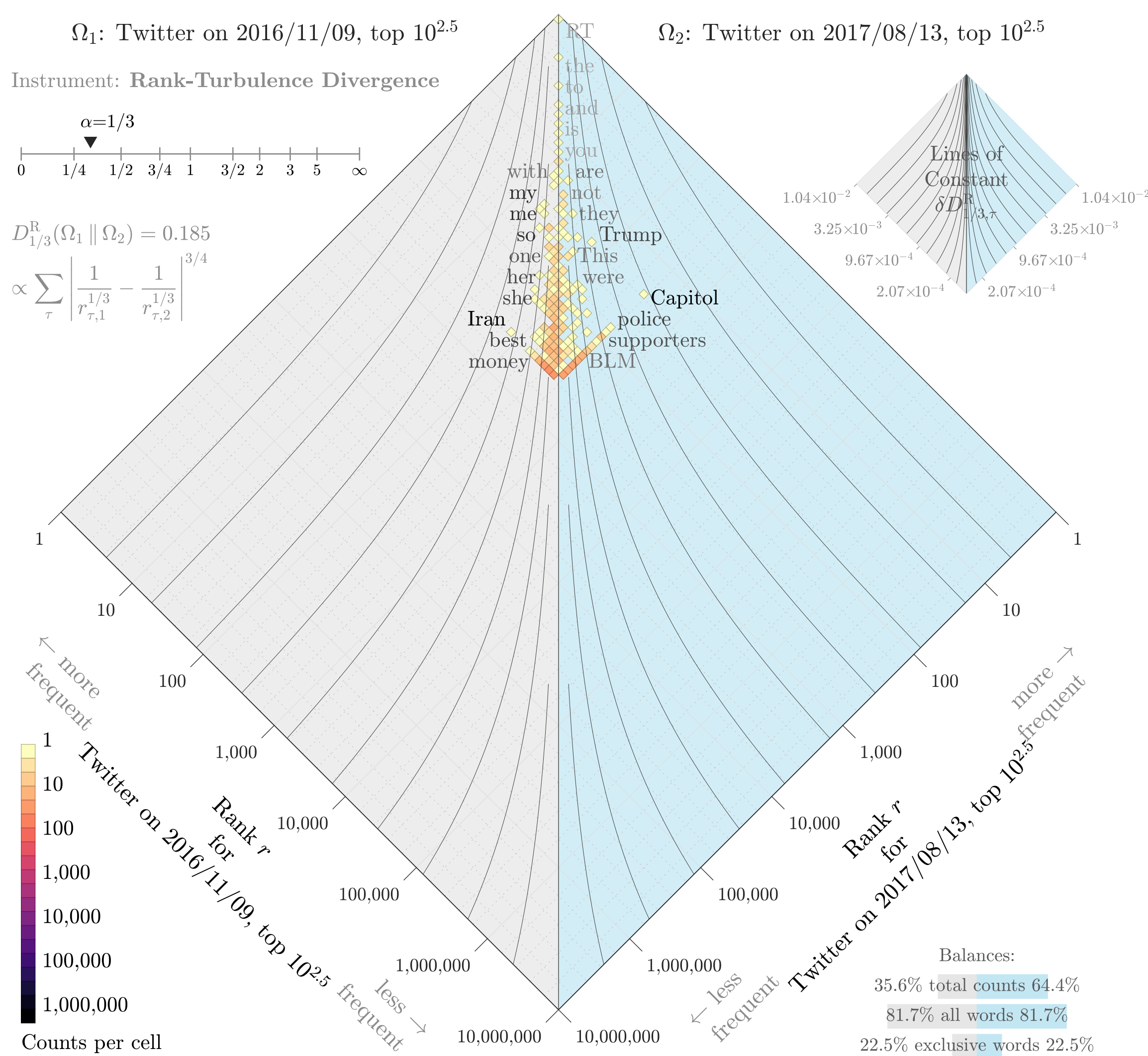
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.185$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



RT  
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are  
not  
they  
Trump  
This  
were  
Capitol  
Iran  
police  
supporters  
BLM  
with  
my  
me  
so  
one  
her  
she  
best  
money



352	22	Capitol	
70	23	Trump	
352	64	police	
<	Iran	78	352
352	85	supporters	
352	90	building	
352	92	white	
352	93	election	
352	98	DC	
352	102	Senate	
129	58	today	
352	122	violence	
me	18	30	
my	16	26	
186	79	President	
so	24	41	
352	132	capitol	
your	20	32	
270	111	America	
352	140	Black	
33	21	they	
47	29	people	
best	119	268	
17	12	are	
352	147	House	
137	71	They	
she	72	138	
love	63	117	
352	150	States	
352	153	office	
106	60	were	
<	war	157	352
352	160	Pence	
her	54	91	
352	163	BLM	
<	money	166	352
352	166	Georgia	
352	170	Congress	
170	95	down	
but	27	39	

Balances:  
35.6% total counts 64.4%  
81.7% all words 81.7%  
22.5% exclusive words 22.5%

53.7%—46.3%





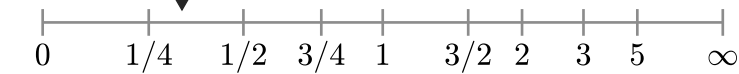
$\Omega_1$ : Twitter on 2016/11/09, top  $10^{4.0}$

$\Omega_2$ : Twitter on 2017/08/13, top  $10^{4.0}$

Divergence contribution  $\delta D_{1/3,\tau}^R$  (%)

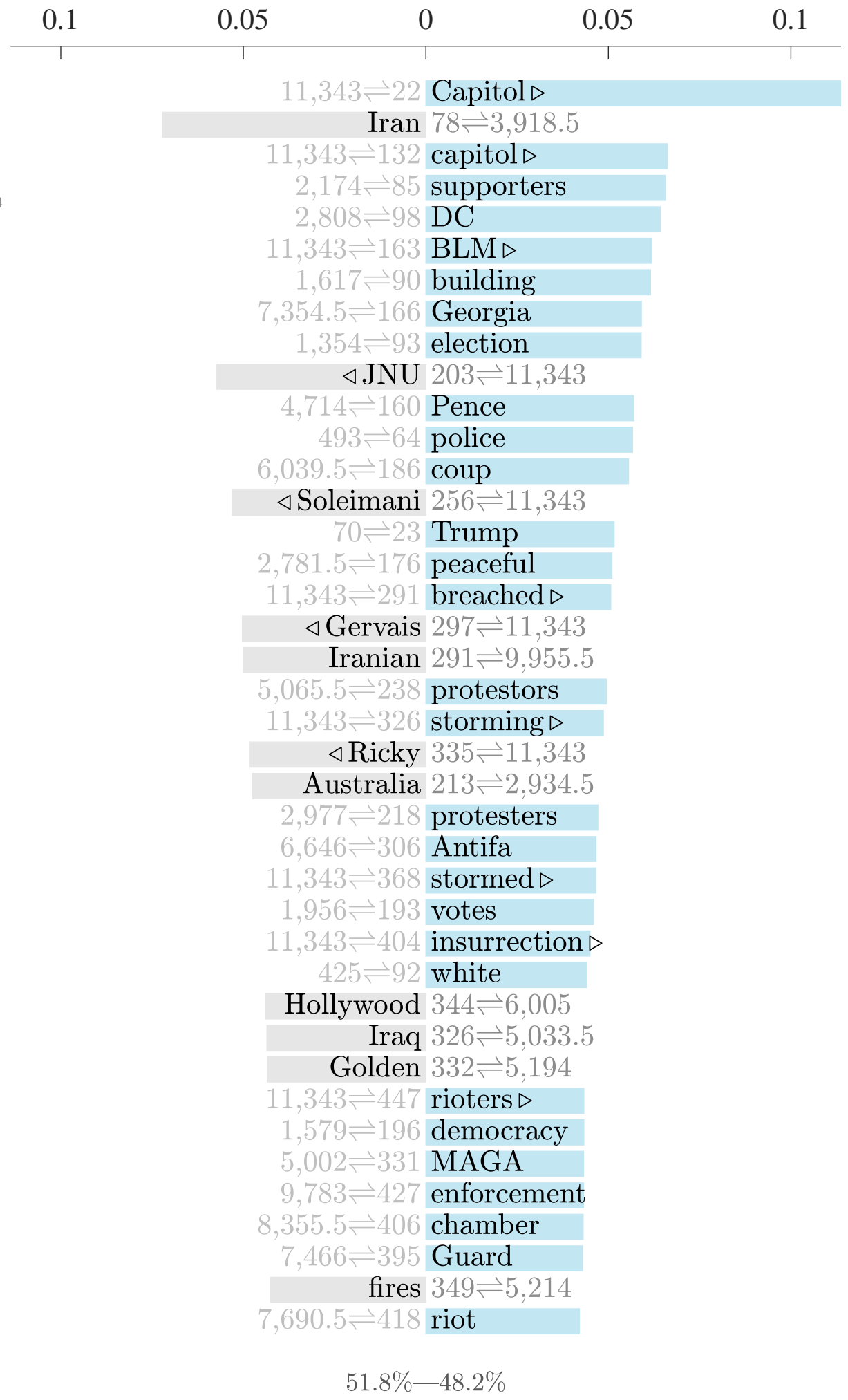
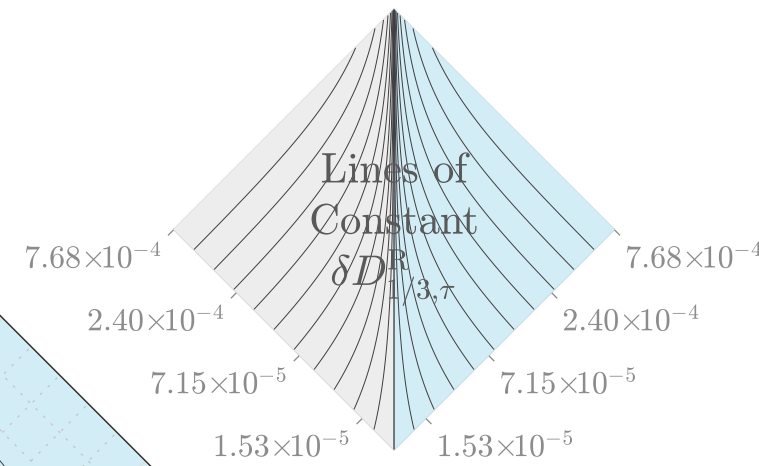
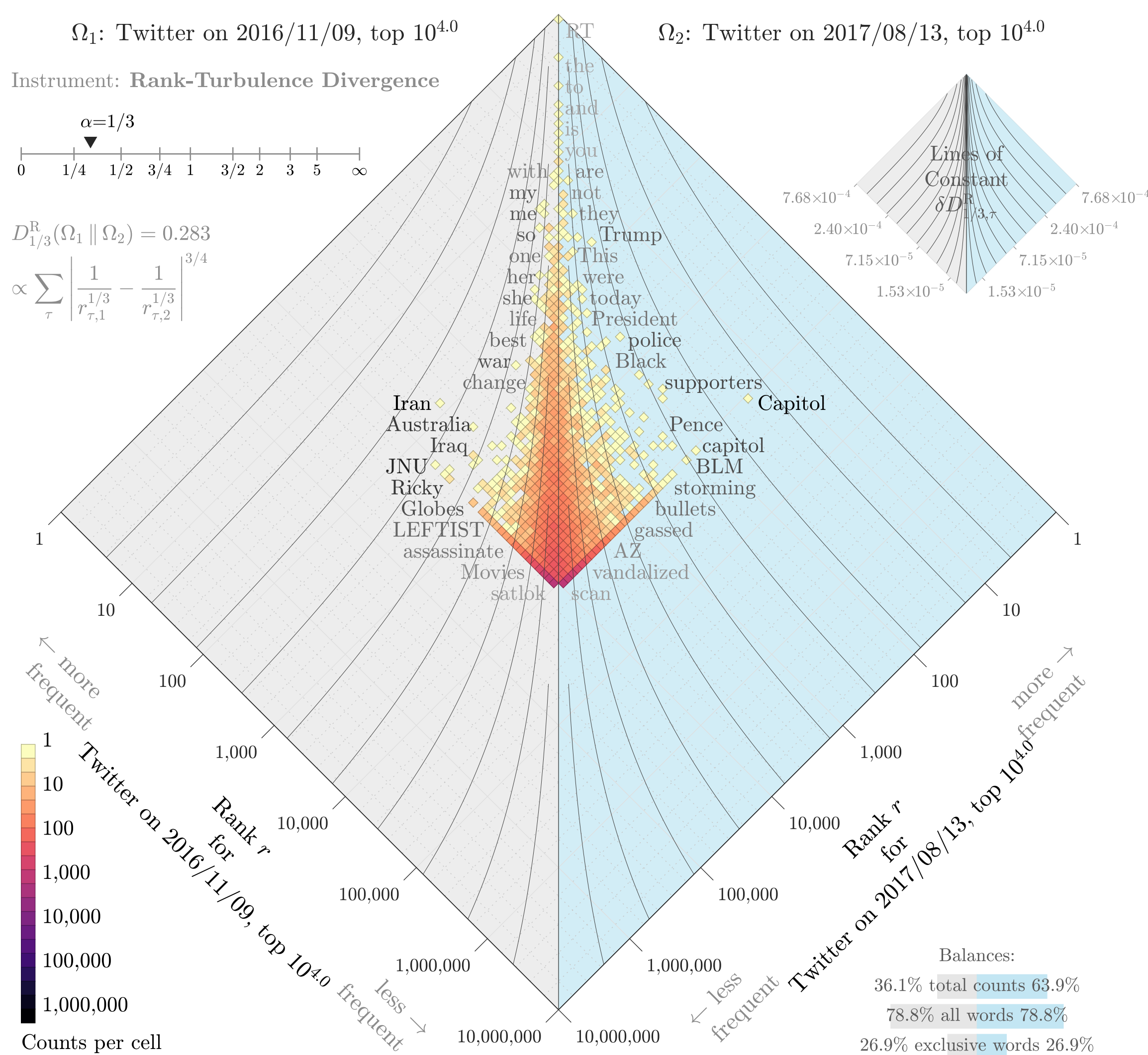
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.283$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



Counts per cell

$\Omega_1$ : Twitter on 2016/11/09, top  $10^{4.5}$

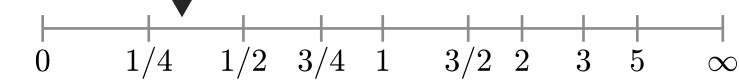
$\Omega_2$ : Twitter on 2017/08/13, top  $10^{4.5}$

Divergence contribution  $\delta D_{1/3,\tau}^R$  (%)

0.04 0.03 0.02 0.01 0 0.01 0.02 0.03 0.04

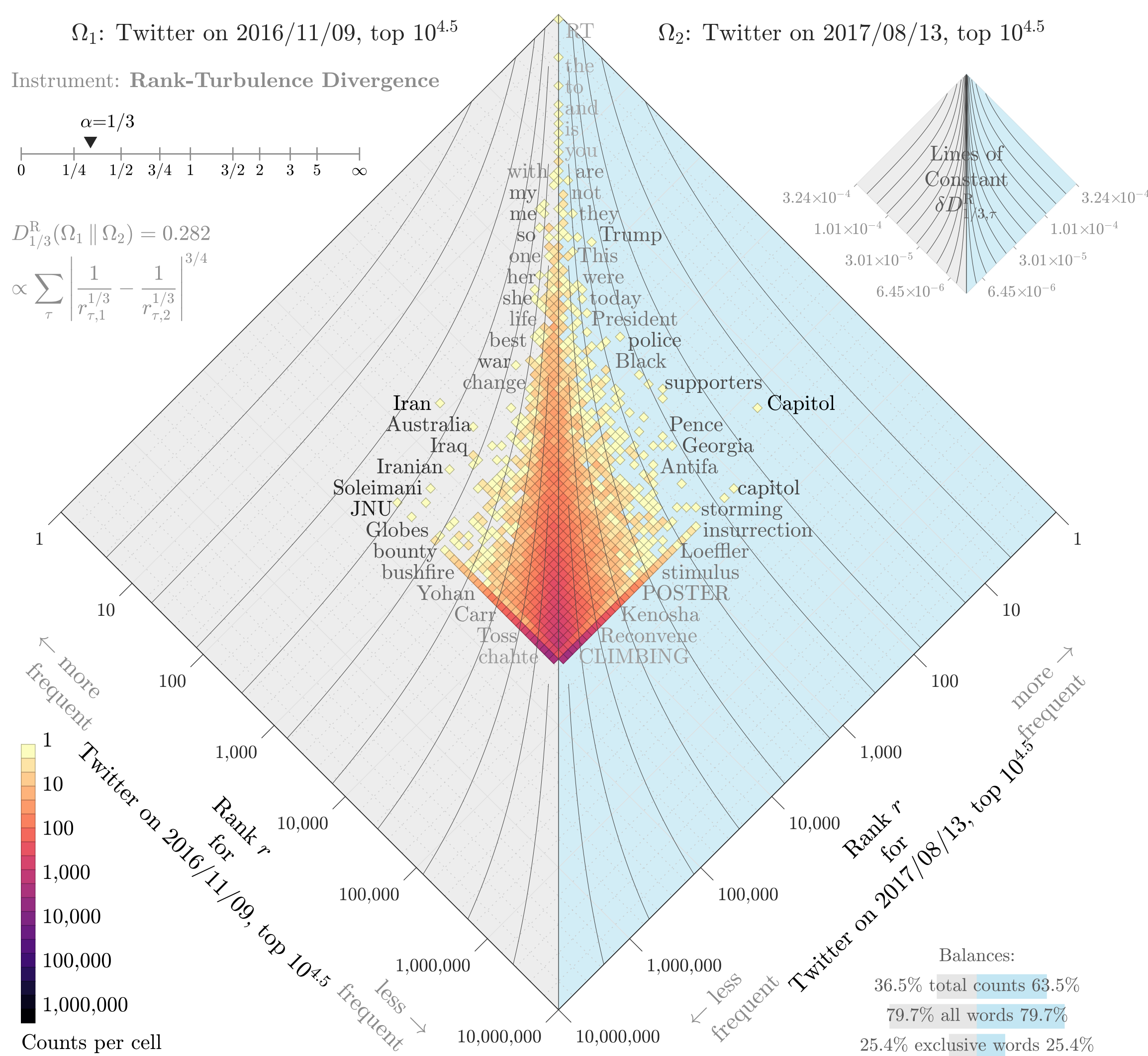
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.282$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



15,337.5 $\Rightarrow$ 22	Capitol
Iran	78 $\Rightarrow$ 3,918.5
35,638.5 $\Rightarrow$ 132	capitol $\triangleright$
35,638.5 $\Rightarrow$ 163	BLM $\triangleright$
2,174 $\Rightarrow$ 85	supporters
2,808 $\Rightarrow$ 98	DC
$\triangleleft$ JNU	203 $\Rightarrow$ 35,638.5
1,617 $\Rightarrow$ 90	building
7,354.5 $\Rightarrow$ 166	Georgia
1,354 $\Rightarrow$ 93	election
4,714 $\Rightarrow$ 160	Pence
493 $\Rightarrow$ 64	police
6,039.5 $\Rightarrow$ 186	coup
$\triangleleft$ Gervais	297 $\Rightarrow$ 35,638.5
Soleimani	256 $\Rightarrow$ 17,226
27,087 $\Rightarrow$ 326	storming
13,793.5 $\Rightarrow$ 291	breached
70 $\Rightarrow$ 23	Trump
Ricky	335 $\Rightarrow$ 22,671.5
2,781.5 $\Rightarrow$ 176	peaceful
35,638.5 $\Rightarrow$ 404	insurrection $\triangleright$
23,200.5 $\Rightarrow$ 368	stormed
Iranian	291 $\Rightarrow$ 9,955.5
5,065.5 $\Rightarrow$ 238	protestors
Australia	213 $\Rightarrow$ 2,934.5
35,638.5 $\Rightarrow$ 484	incited $\triangleright$
2,977 $\Rightarrow$ 218	protesters
6,646 $\Rightarrow$ 306	Antifa
20,430 $\Rightarrow$ 447	rioters
35,638.5 $\Rightarrow$ 519	Ossoff $\triangleright$
1,956 $\Rightarrow$ 193	votes
35,638.5 $\Rightarrow$ 551	Warnock $\triangleright$
425 $\Rightarrow$ 92	white
Hollywood	344 $\Rightarrow$ 6,005
24,658.5 $\Rightarrow$ 560	ballots
Iraq	326 $\Rightarrow$ 5,033.5
Golden	332 $\Rightarrow$ 5,194
1,579 $\Rightarrow$ 196	democracy
5,002 $\Rightarrow$ 331	MAGA
9,783 $\Rightarrow$ 427	enforcement

Balances:  
 36.5% total counts 63.5%  
 79.7% all words 79.7%  
 25.4% exclusive words 25.4%

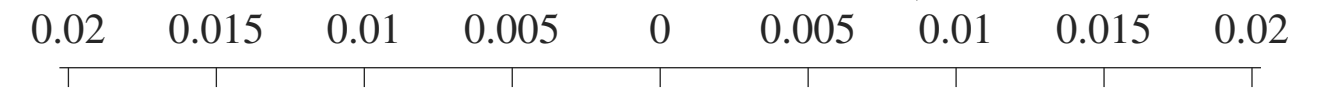
51.1%—48.9%

Counts per cell

$\Omega_1$ : Twitter on 2016/11/09, top  $10^{5.0}$

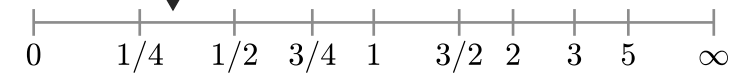
$\Omega_2$ : Twitter on 2017/08/13, top  $10^{5.0}$

Divergence contribution  $\delta D_{1/3,\tau}^R$  (%)



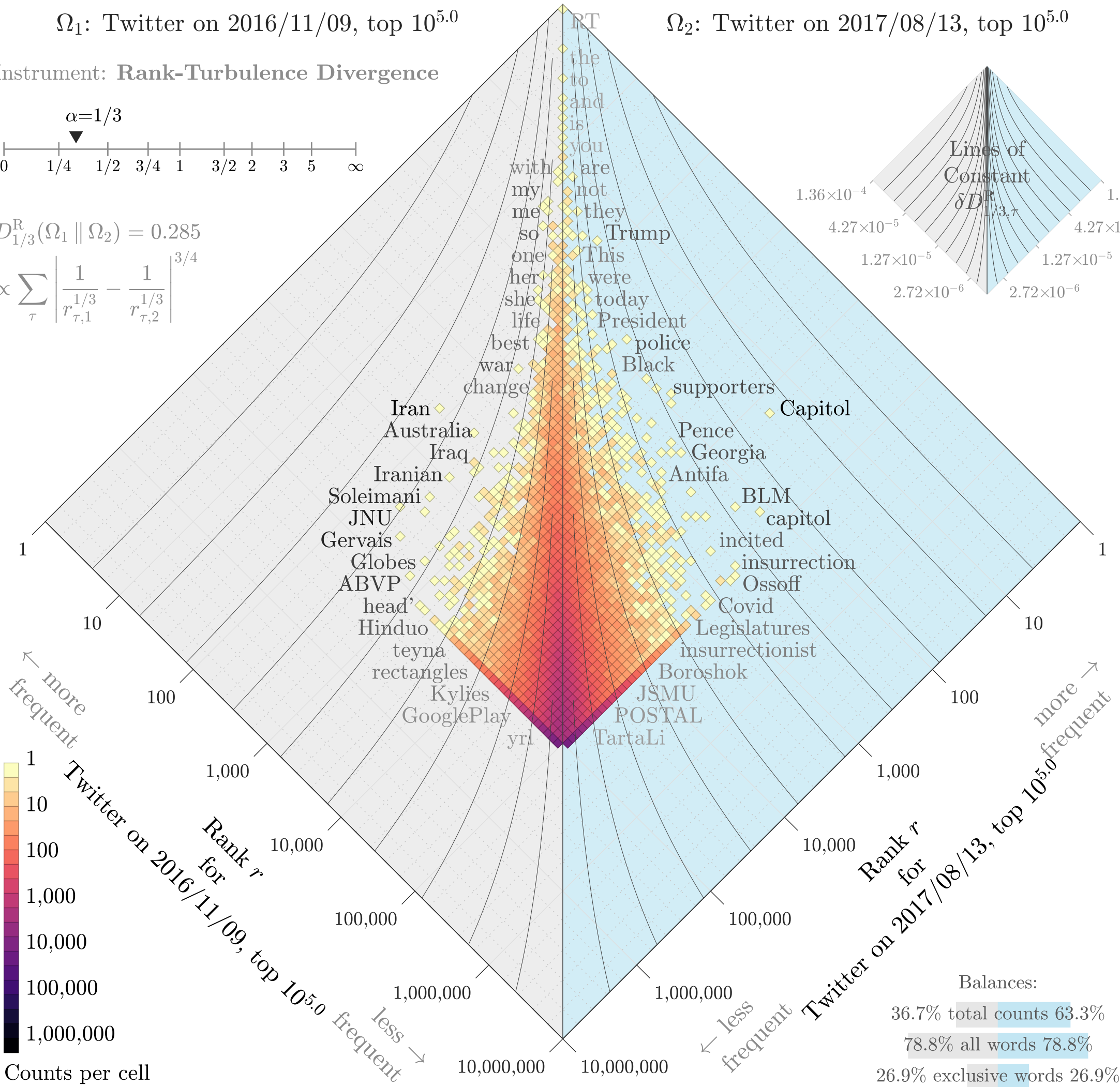
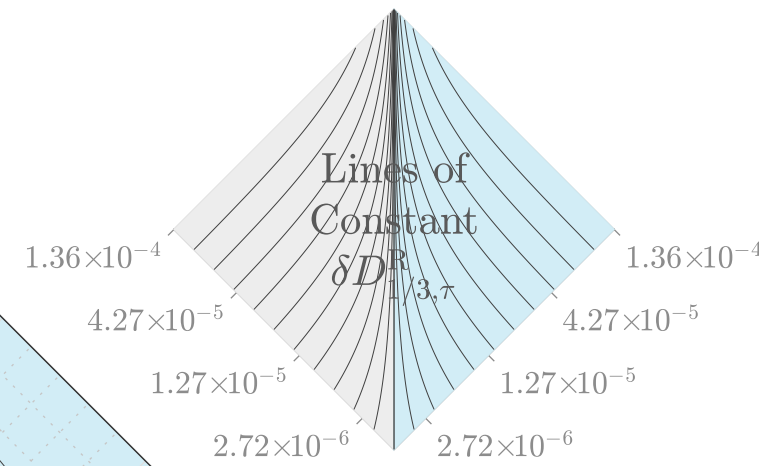
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.285$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



15,337.5	22	Capitol
60,566	132	capitol
Iran	78	3,918.5
34,831.5	163	BLM
2,174	85	supporters
2,808	98	DC
JNU	203	33,377
1,617	90	building
7,354.5	166	Georgia
1,354	93	election
4,714	160	Pence
493	64	police
Gervais	297	49,298
6,039.5	186	coup
Soleimani	256	17,226
86,764.5	404	insurrection
27,087	326	storming
13,793.5	291	breached
70	23	Trump
Ricky	335	22,671.5
2,781.5	176	peaceful
23,200.5	368	stormed
Iranian	291	9,955.5
113,429.5	519	Ossoff
5,065.5	238	protestors
113,429.5	551	Warnock
51,719.5	484	incited
Australia	213	2,934.5
2,977	218	protesters
6,646	306	Antifa
20,430	447	rioters
1,956	193	votes
ABVP	651	81,356.5
94,597.5	698	certify
87,929	713	pandemic
Gloves	650	51,386
425	92	white
Hollywood	344	6,005
24,658.5	560	ballots
Iraq	326	5,033.5

Balances:  
 36.7% total counts 63.3%  
 78.8% all words 78.8%  
 26.9% exclusive words 26.9%

50.6%—49.4%

Counts per cell



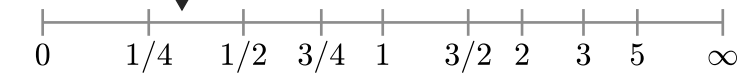
$\Omega_1$ : Twitter on 2016/11/09, top  $10^{5.5}$

$\Omega_2$ : Twitter on 2017/08/13, top  $10^{5.5}$

Divergence contribution  $\delta D_{1/3,\tau}^R (\times 10^{-3}\%)$

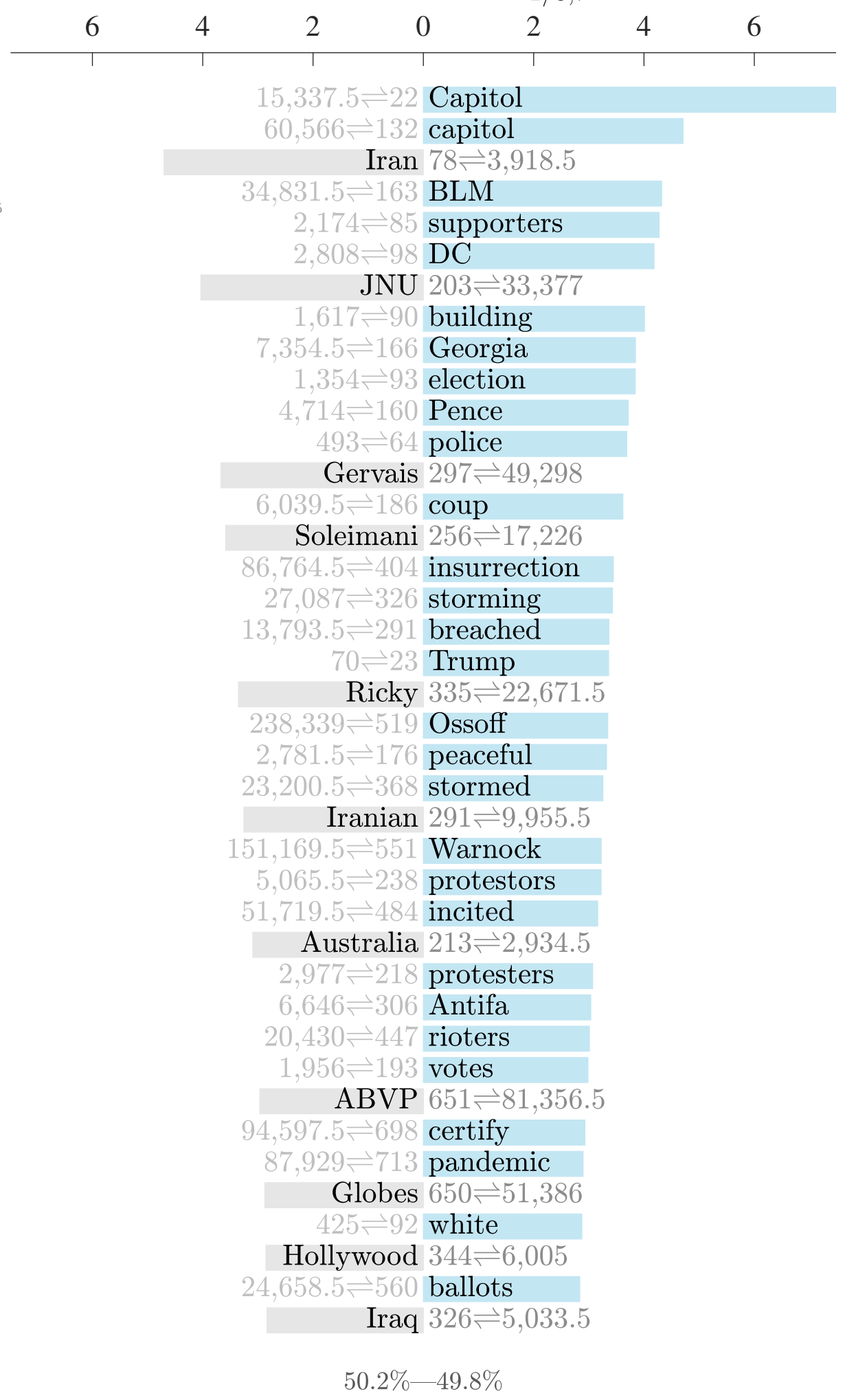
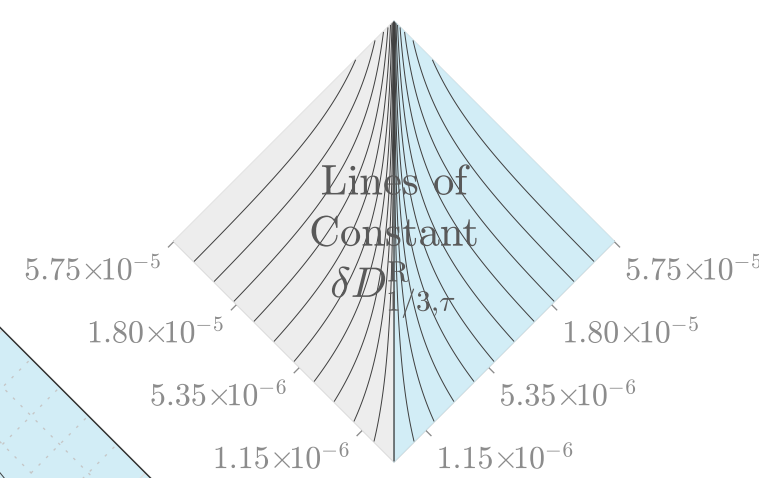
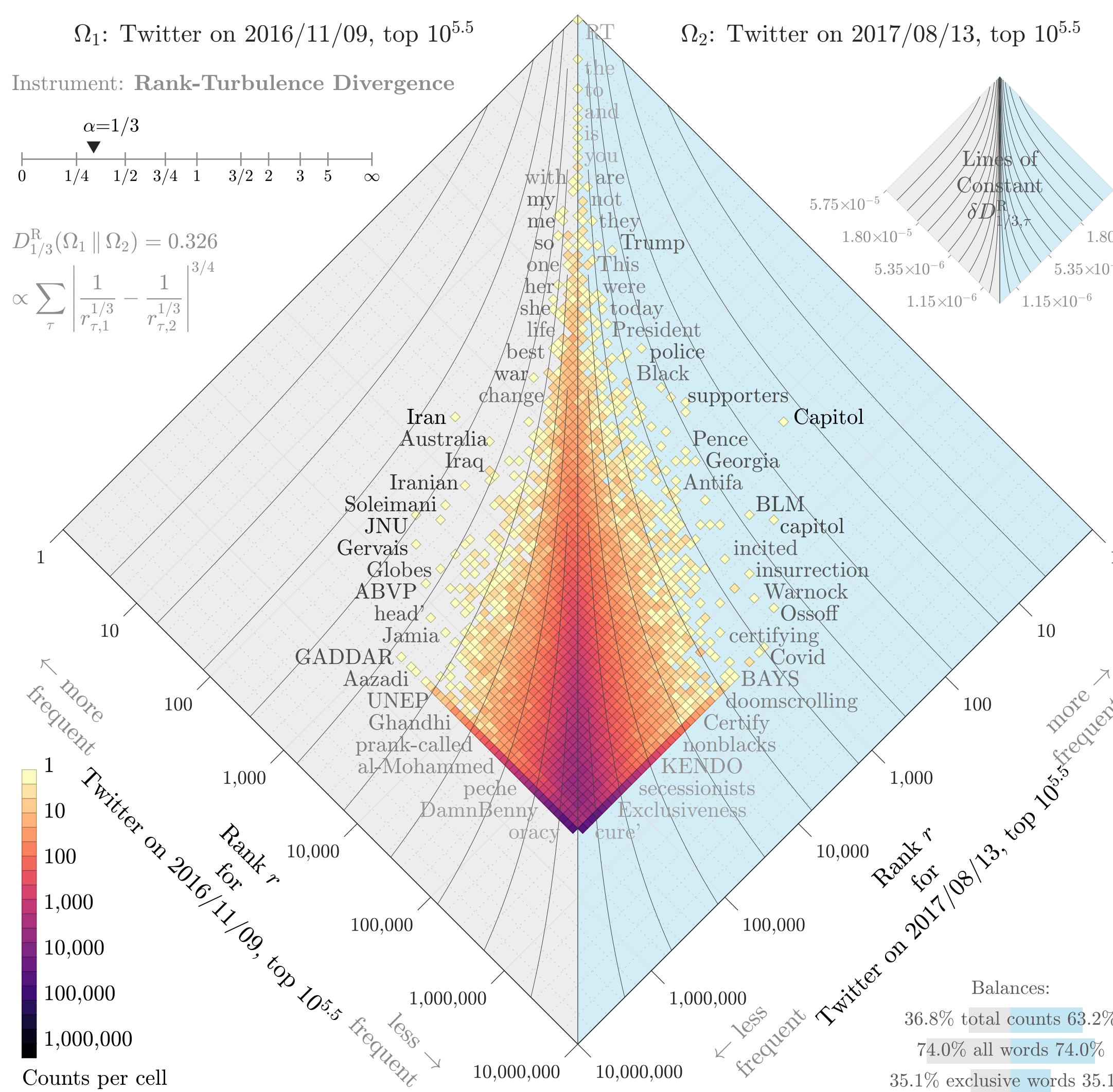
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.326$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



Balances:  
 36.8% total counts 63.2%  
 74.0% all words 74.0%  
 35.1% exclusive words 35.1%

50.2%—49.8%

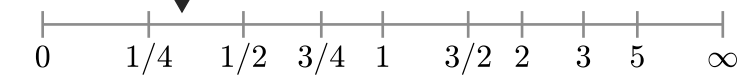
$\Omega_1$ : Twitter on 2016/11/09, top  $10^{6.0}$

$\Omega_2$ : Twitter on 2017/08/13, top  $10^{6.0}$

Divergence contribution  $\delta D_{1/3,\tau}^R (\times 10^{-3}\%)$

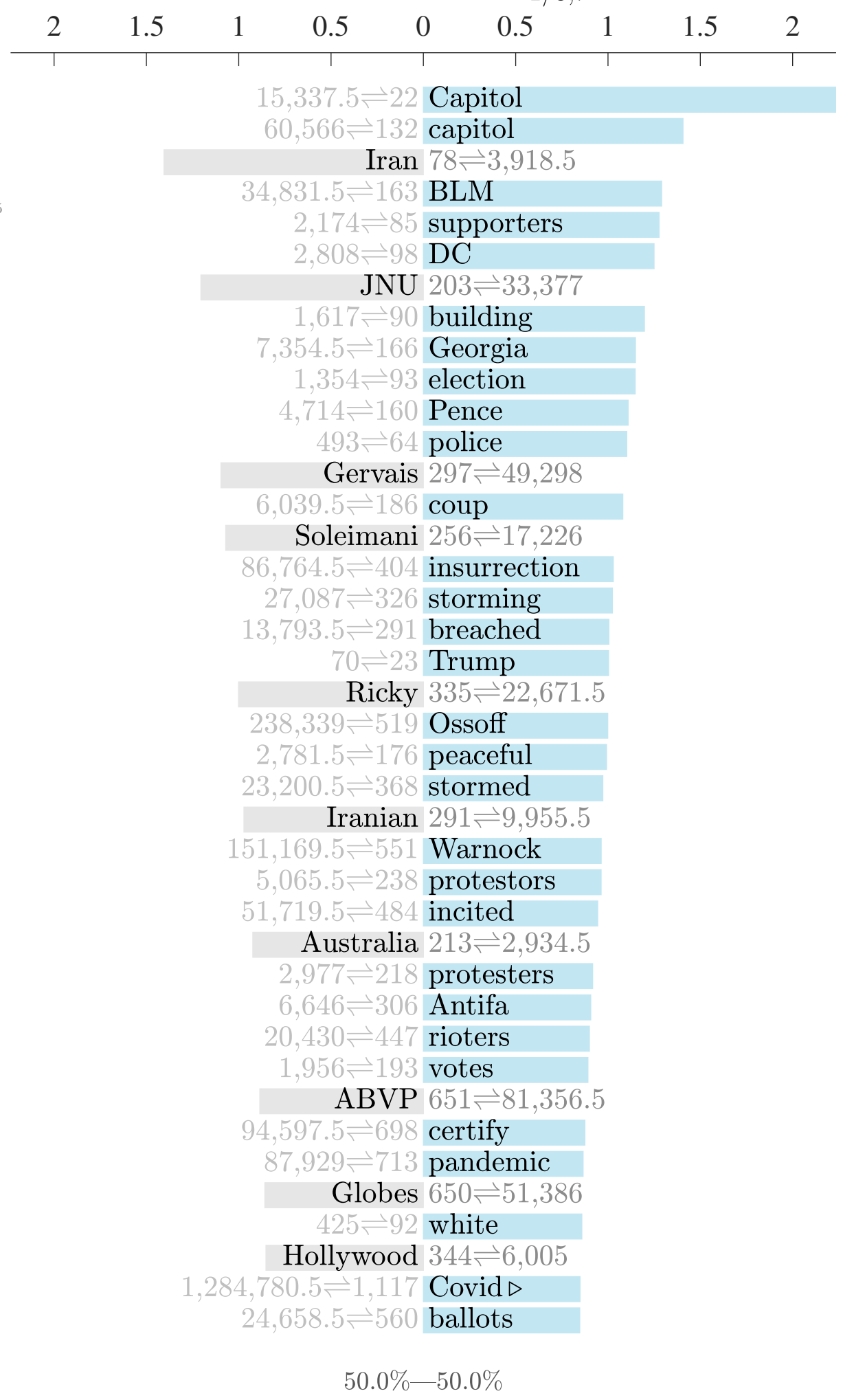
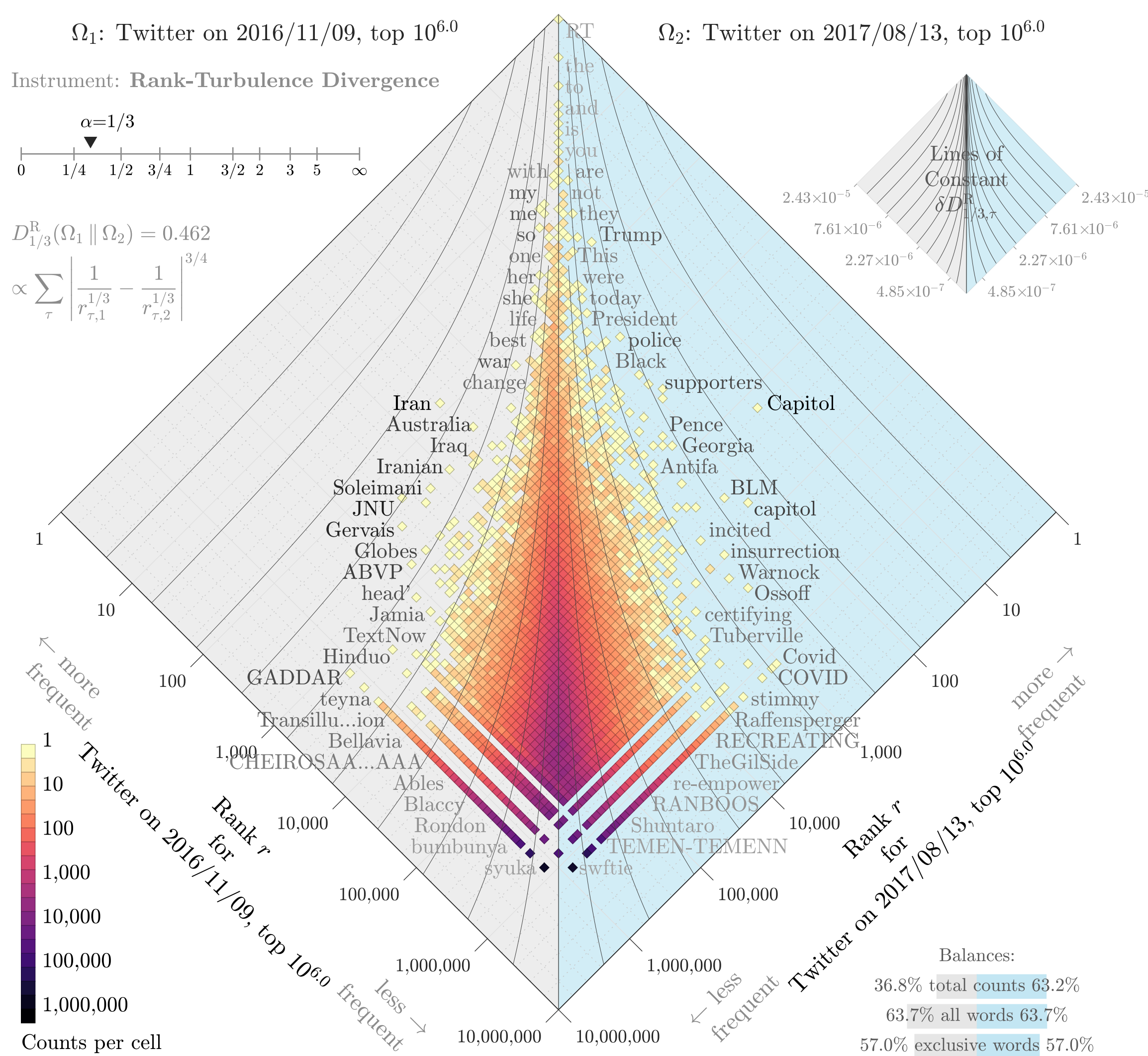
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.462$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



Balances:  
 36.8% total counts 63.2%  
 63.7% all words 63.7%  
 57.0% exclusive words 57.0%

50.0%—50.0%

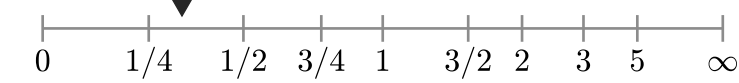
$\Omega_1$ : Twitter on 2016/11/09

$\Omega_2$ : Twitter on 2017/08/13

Divergence contribution  $\delta D_{1/3,\tau}^R (\times 10^{-3}\%)$

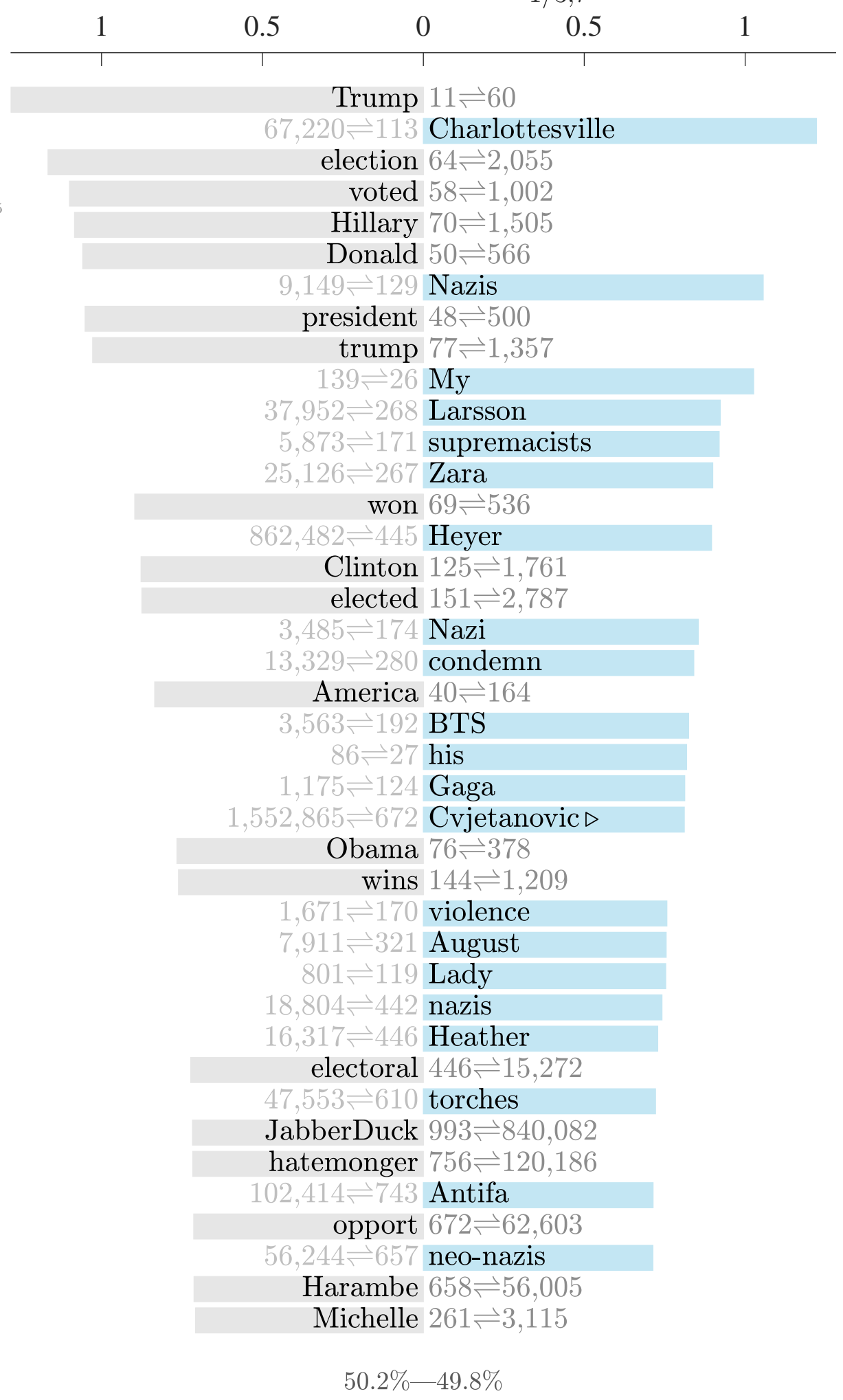
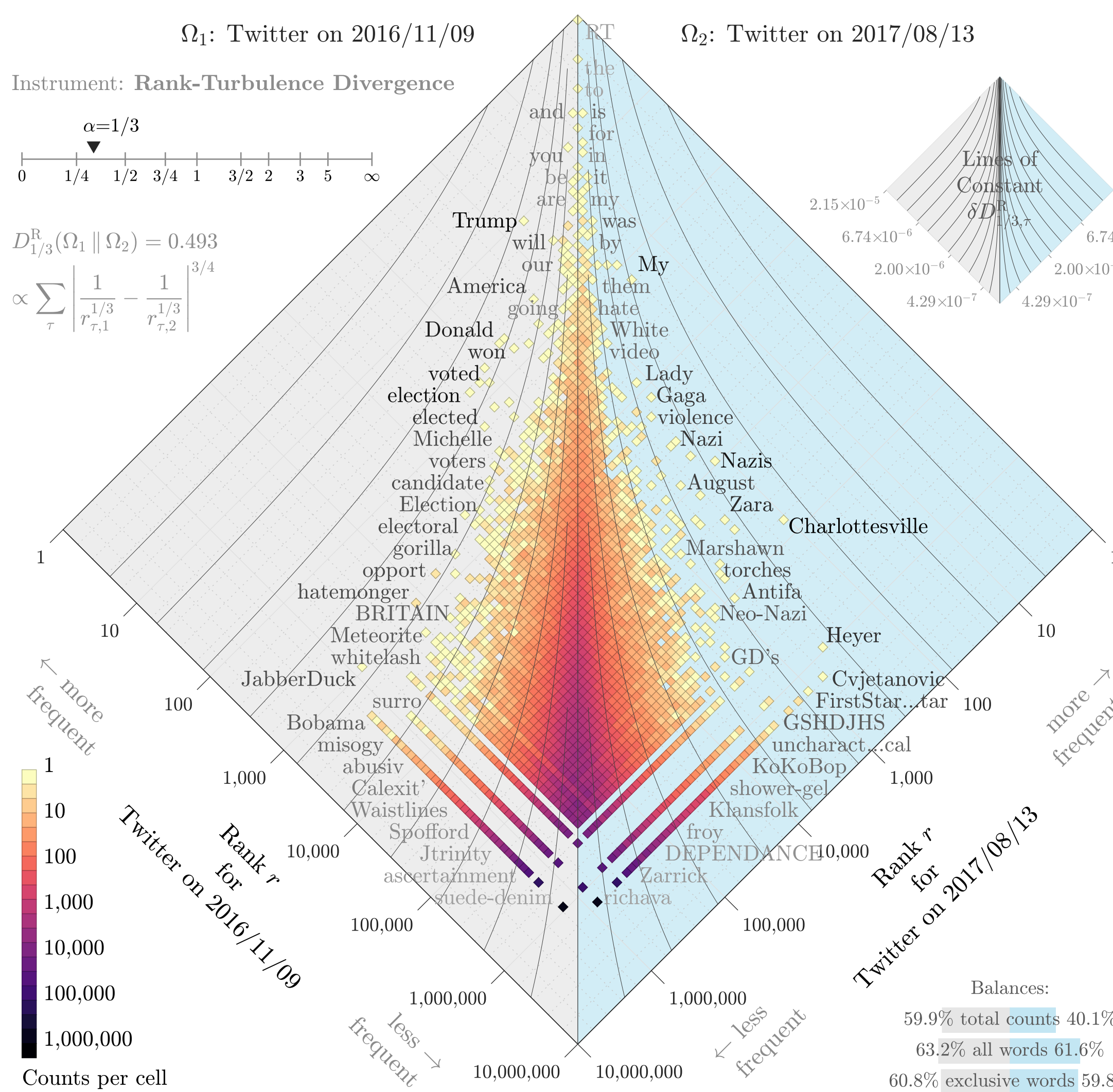
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.493$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/3}} - \frac{1}{r_{\tau,2}^{1/3}} \right|^{3/4}$$



Balances:  
 59.9% total counts 40.1%  
 63.2% all words 61.6%  
 60.8% exclusive words 59.8%

50.2%—49.8%