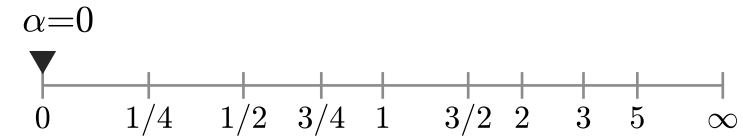


Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

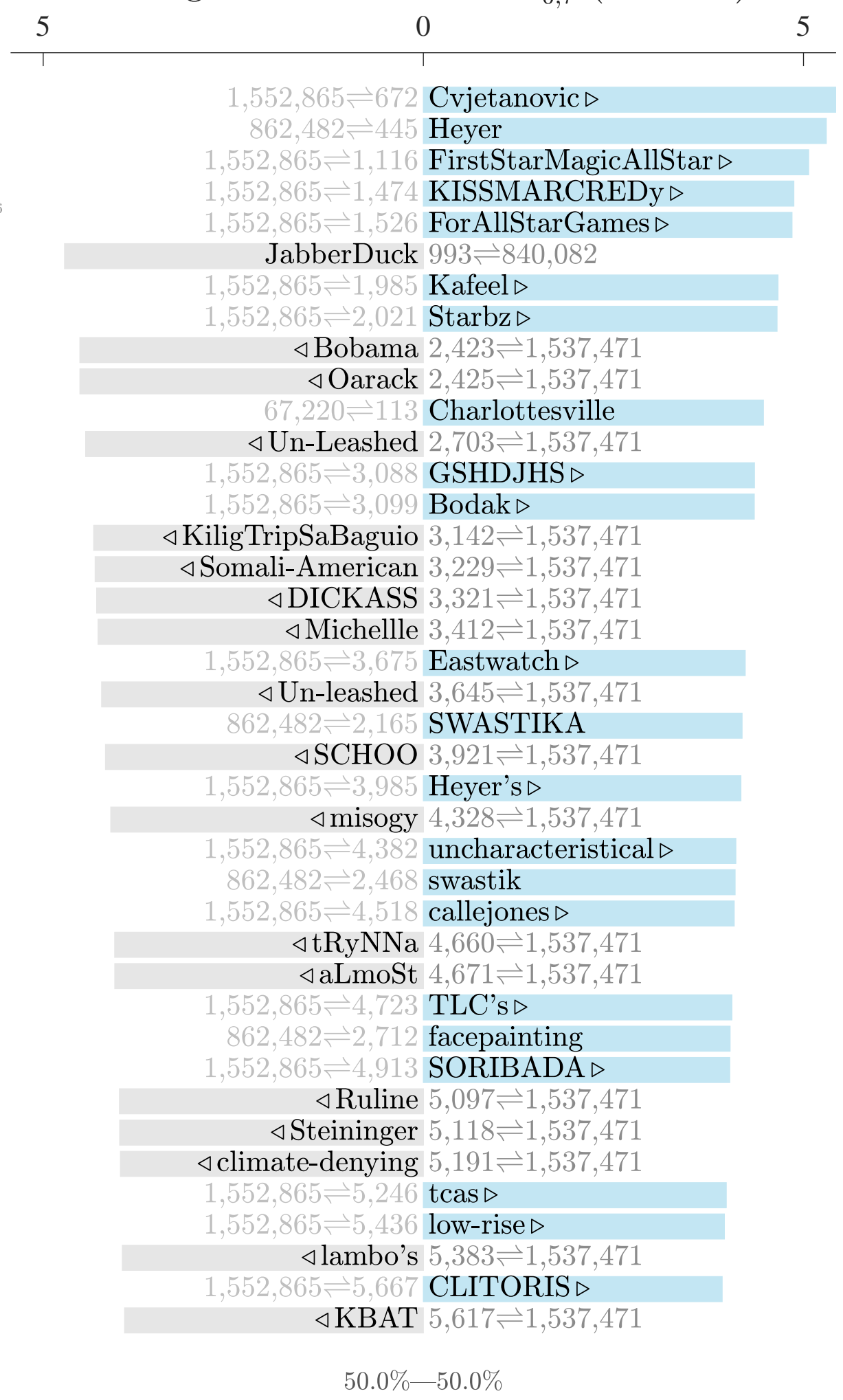
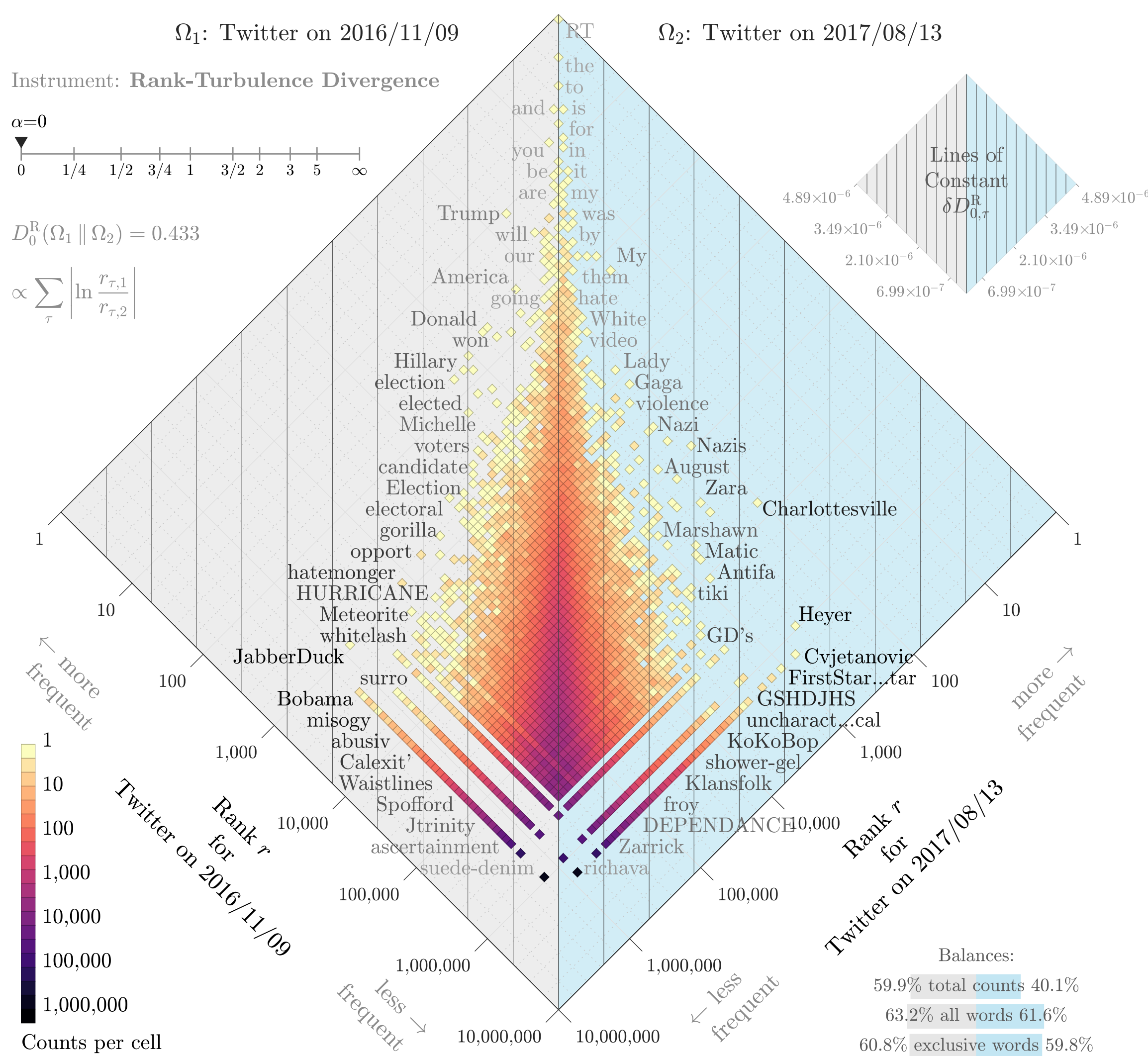
Divergence contribution $\delta D_{0,\tau}^R (\times 10^{-4}\%)$

Instrument: Rank-Turbulence Divergence



$$D_0^R(\Omega_1 \parallel \Omega_2) = 0.433$$

$$\propto \sum_{\tau} \left| \ln \frac{r_{\tau,1}}{r_{\tau,2}} \right|$$



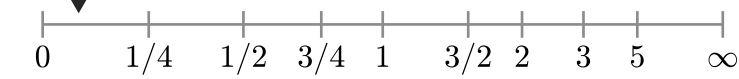
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{1/12,\tau}^R (\times 10^{-4}\%)$

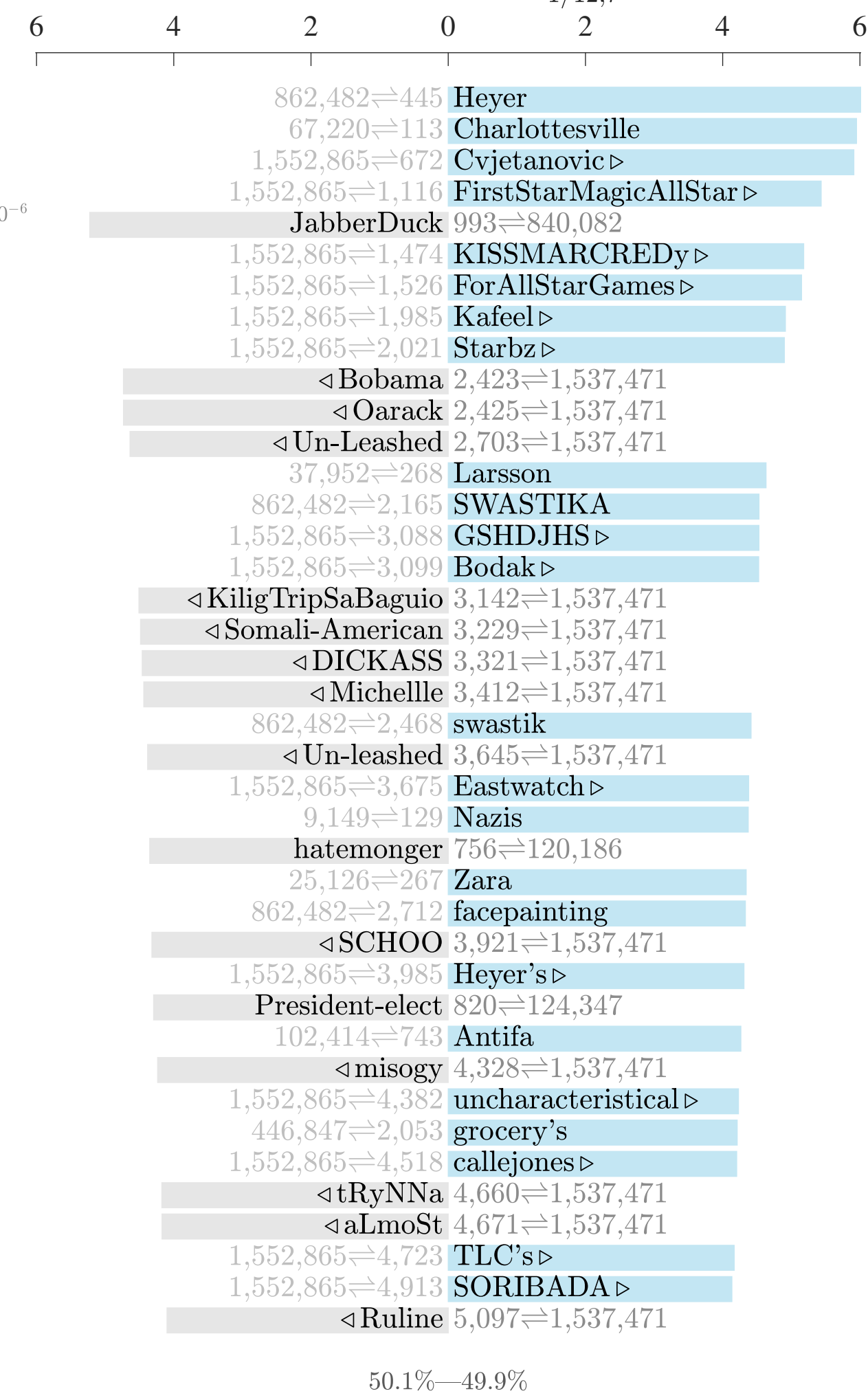
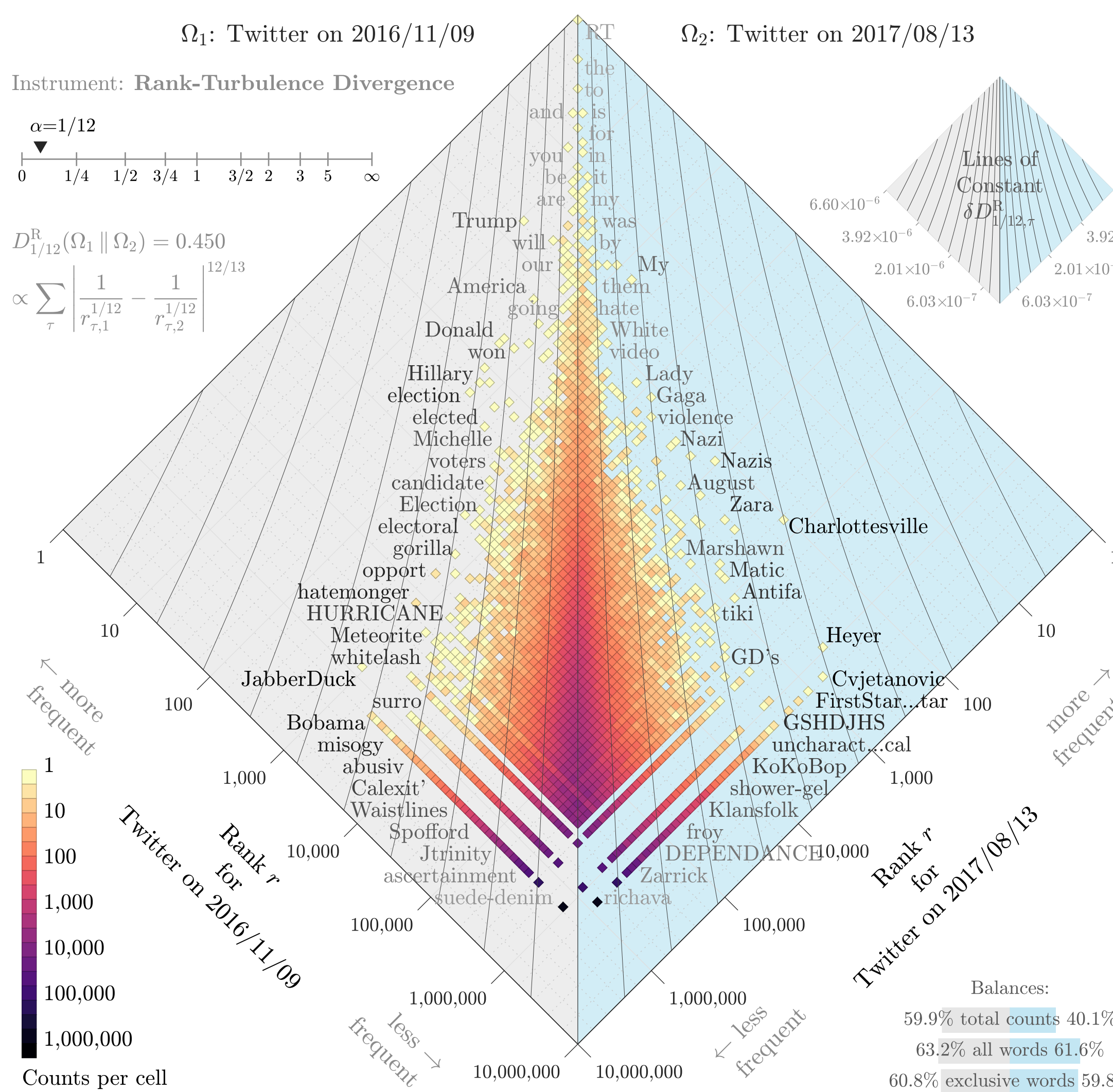
Instrument: Rank-Turbulence Divergence

$\alpha=1/12$



$$D_{1/12}^R(\Omega_1 \parallel \Omega_2) = 0.450$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/12}} - \frac{1}{r_{\tau,2}^{1/12}} \right|^{12/13}$$



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

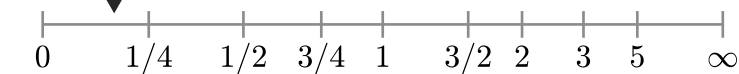
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{1/6,\tau}^R (\times 10^{-4}\%)$

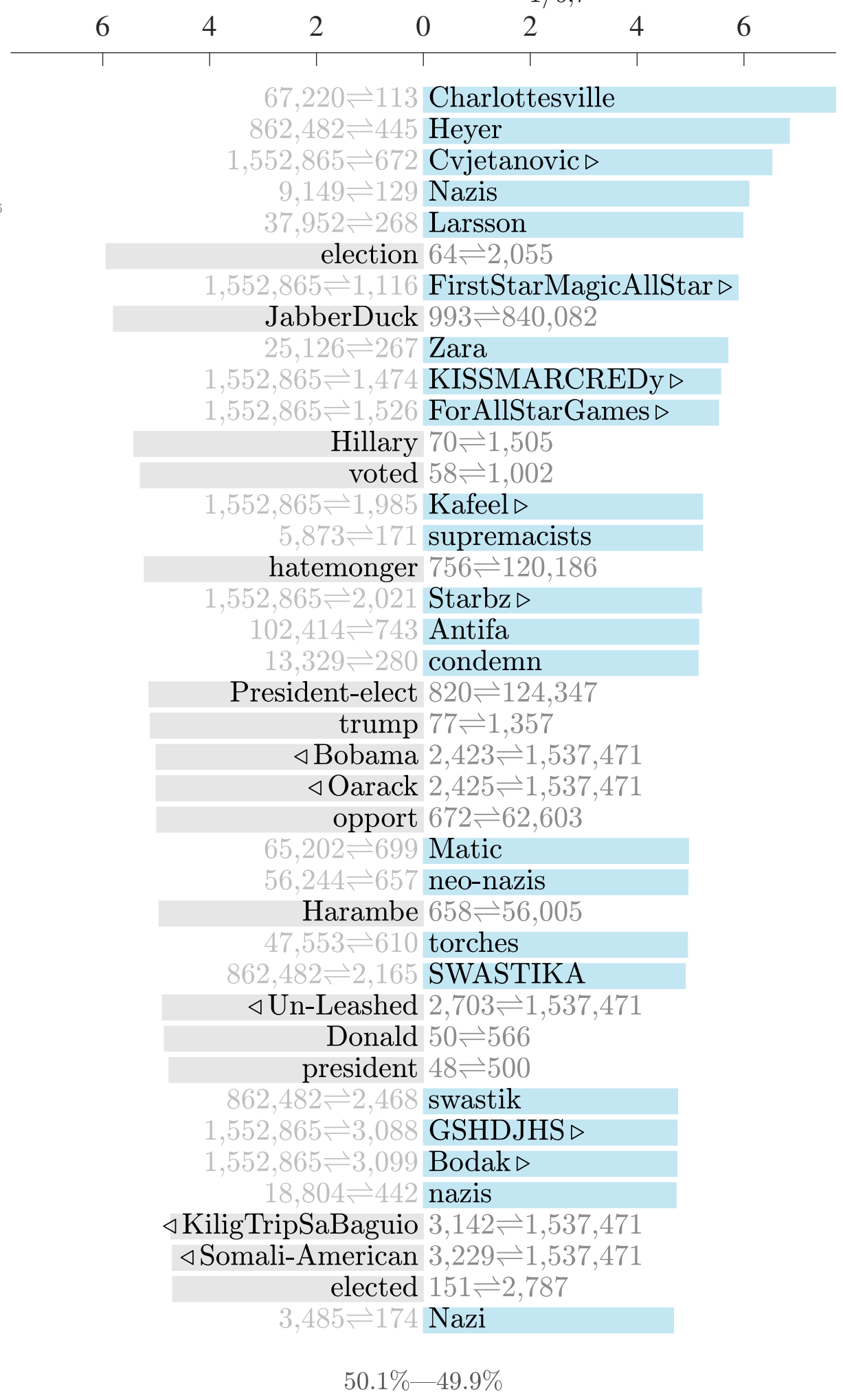
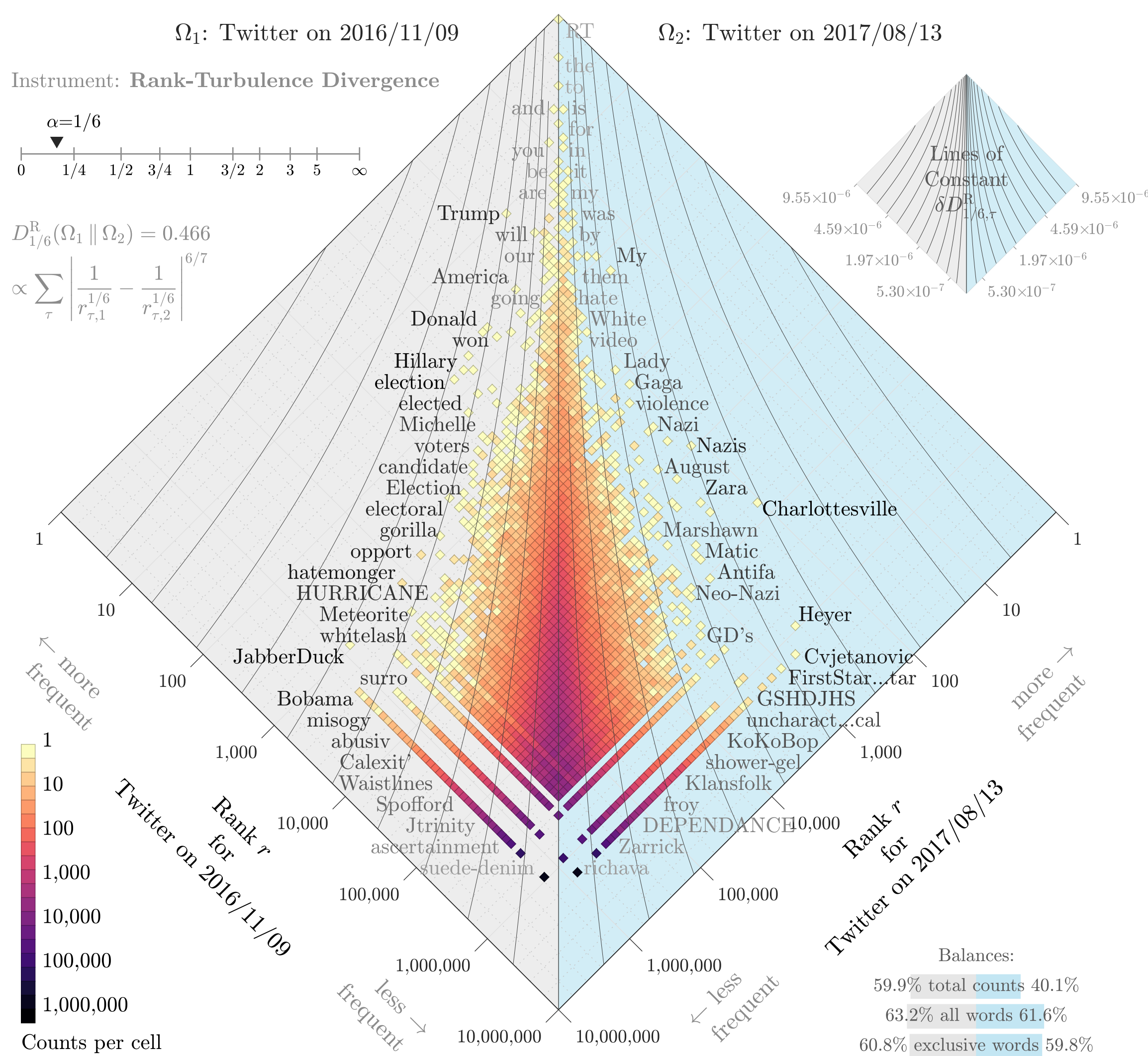
Instrument: Rank-Turbulence Divergence

$\alpha=1/6$



$$D_{1/6}^R(\Omega_1 \parallel \Omega_2) = 0.466$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/6}} - \frac{1}{r_{\tau,2}^{1/6}} \right|^{6/7}$$



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

50.1%—49.9%

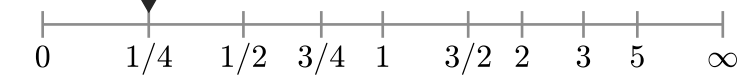
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{1/4,\tau}^R (\times 10^{-4}\%)$

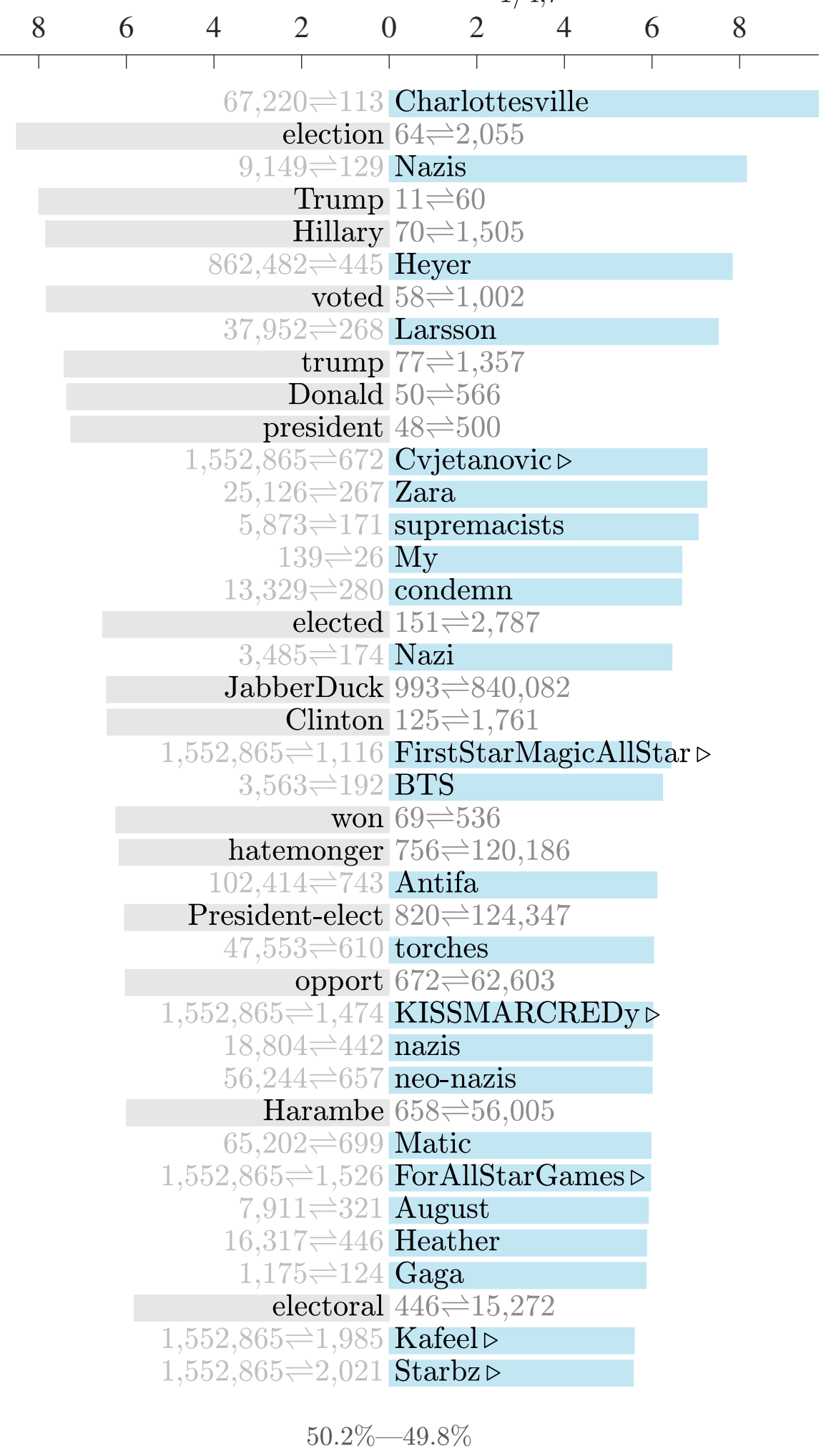
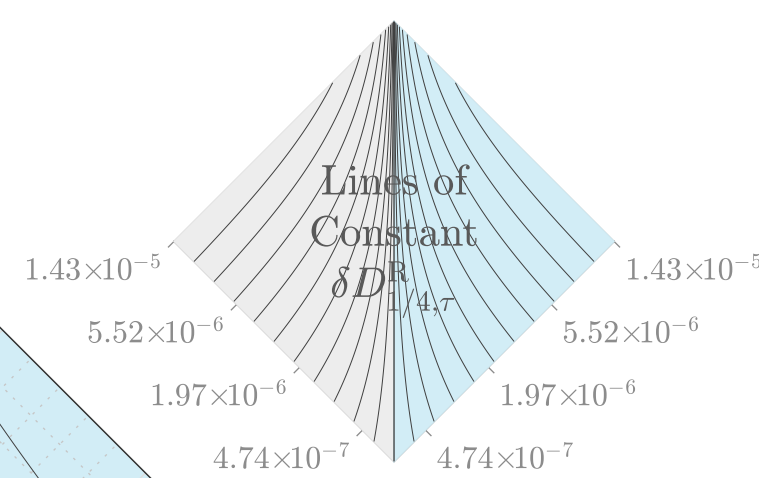
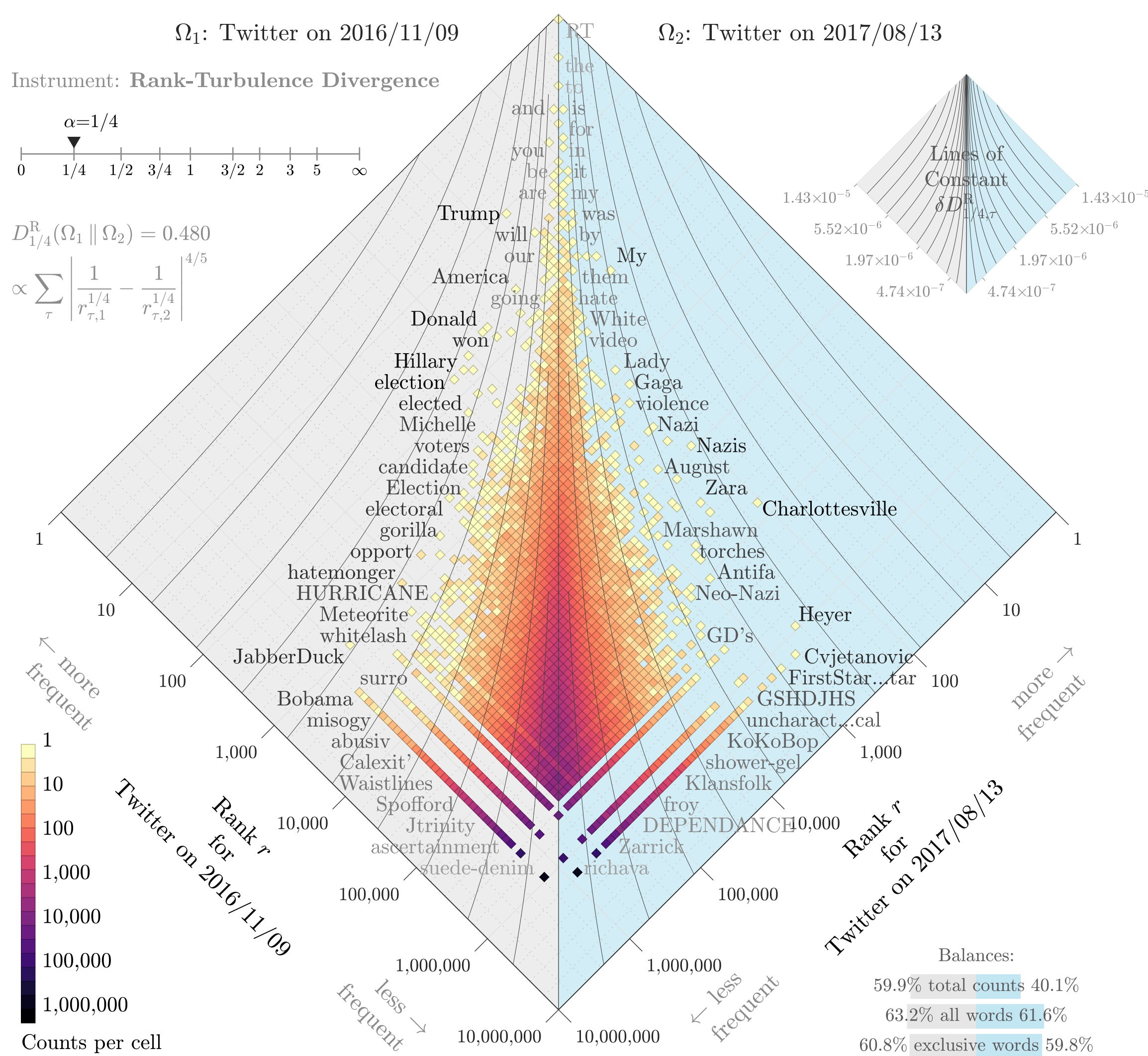
Instrument: Rank-Turbulence Divergence

$\alpha=1/4$



$$D_{1/4}^R(\Omega_1 \parallel \Omega_2) = 0.480$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{1/4}} - \frac{1}{r_{\tau,2}^{1/4}} \right|^{4/5}$$



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

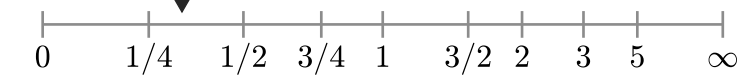
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

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

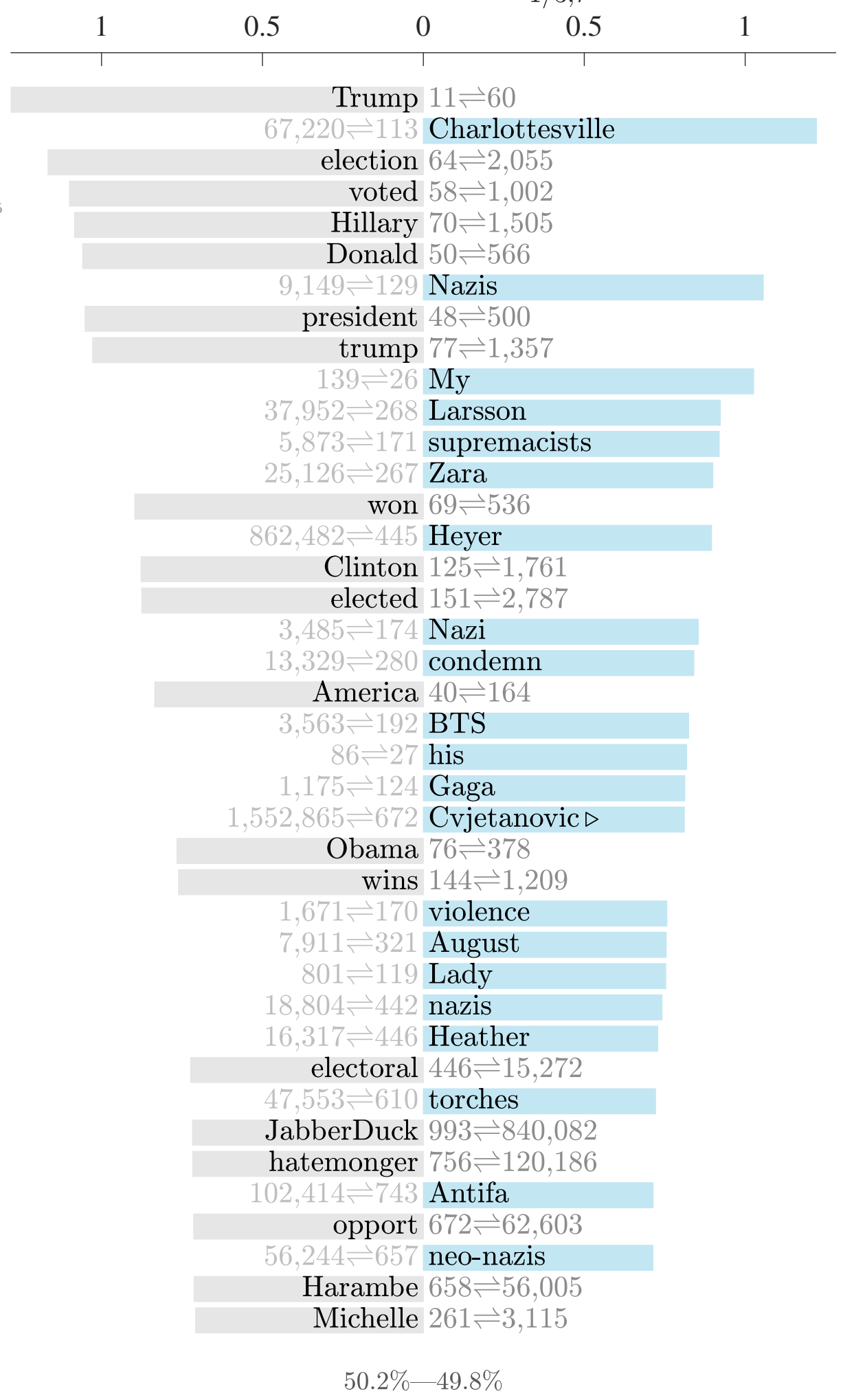
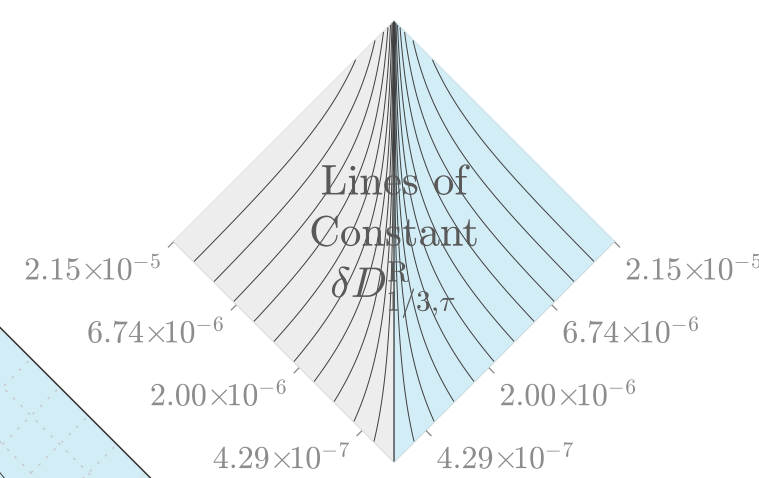
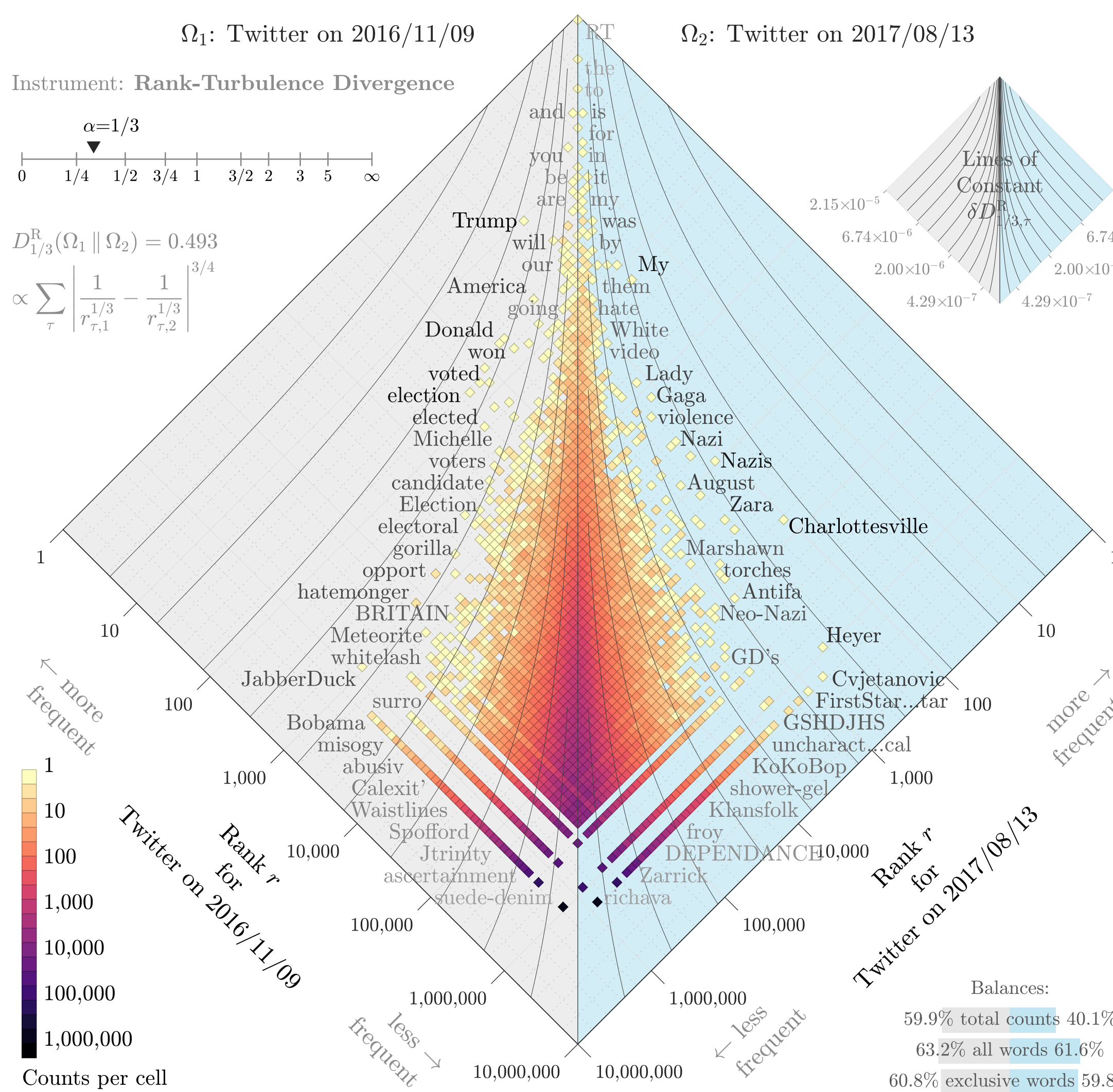
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



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

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



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

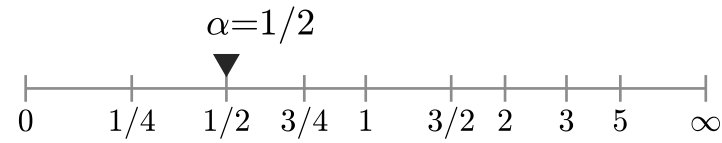
50.2%—49.8%

Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

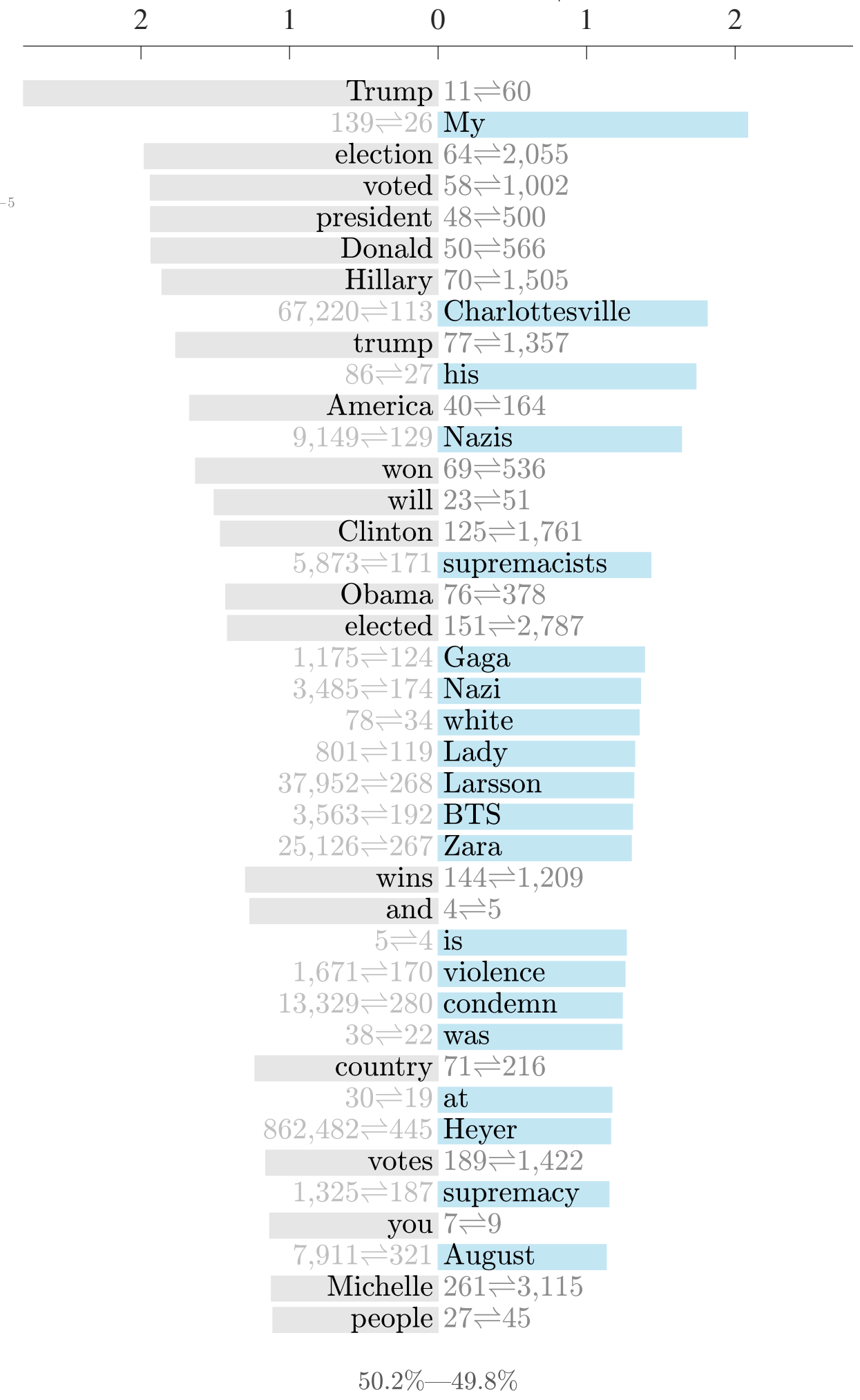
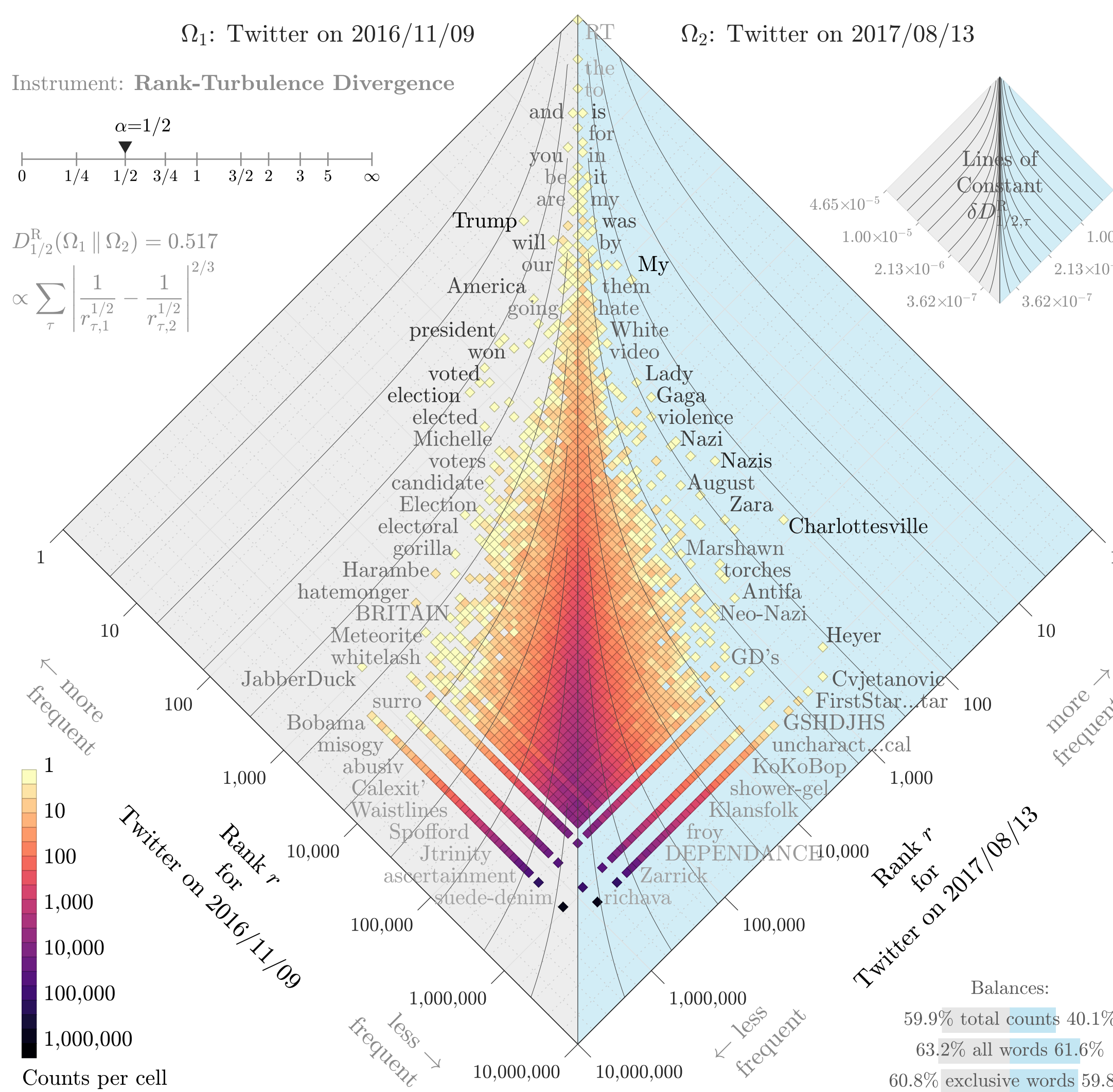
Divergence contribution $\delta D_{1/2,\tau}^R (\times 10^{-3}\%)$

Instrument: Rank-Turbulence Divergence



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.517$$

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



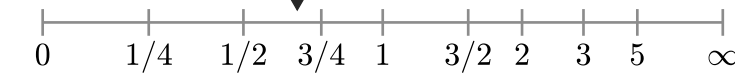
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{2/3,\tau}^R (\times 10^{-3}\%)$

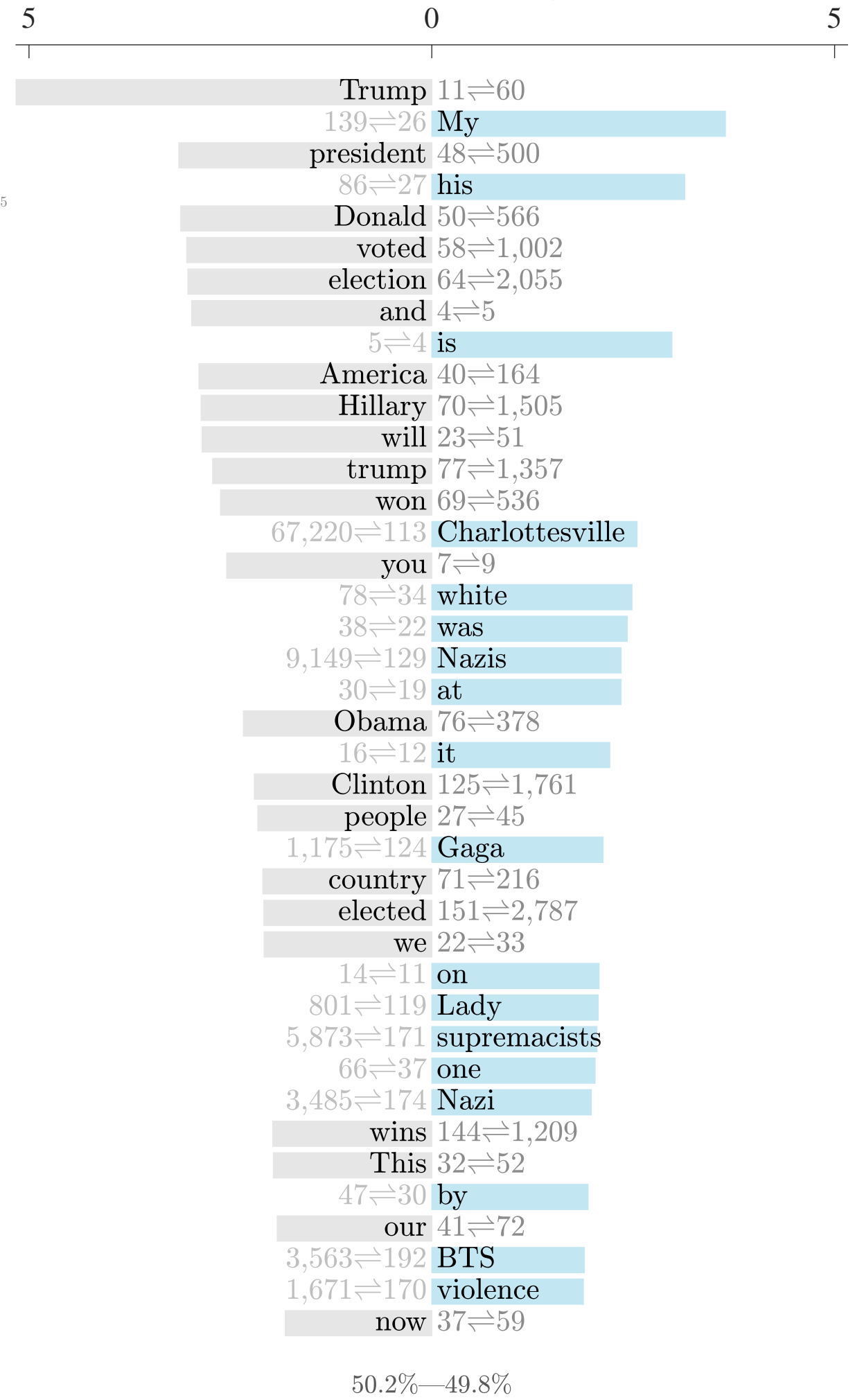
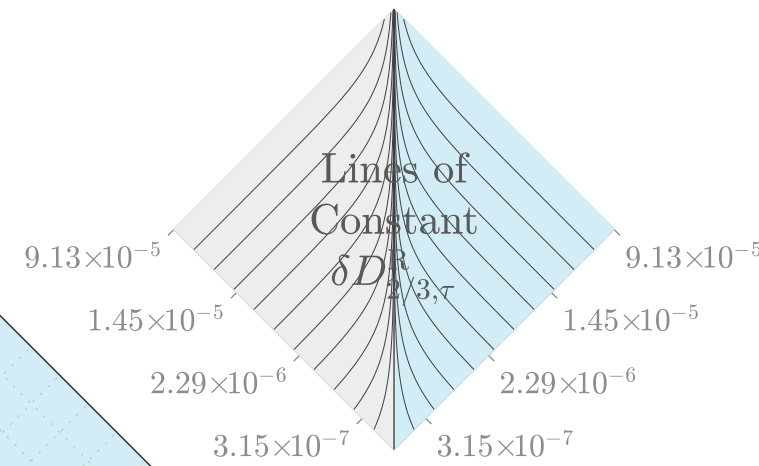
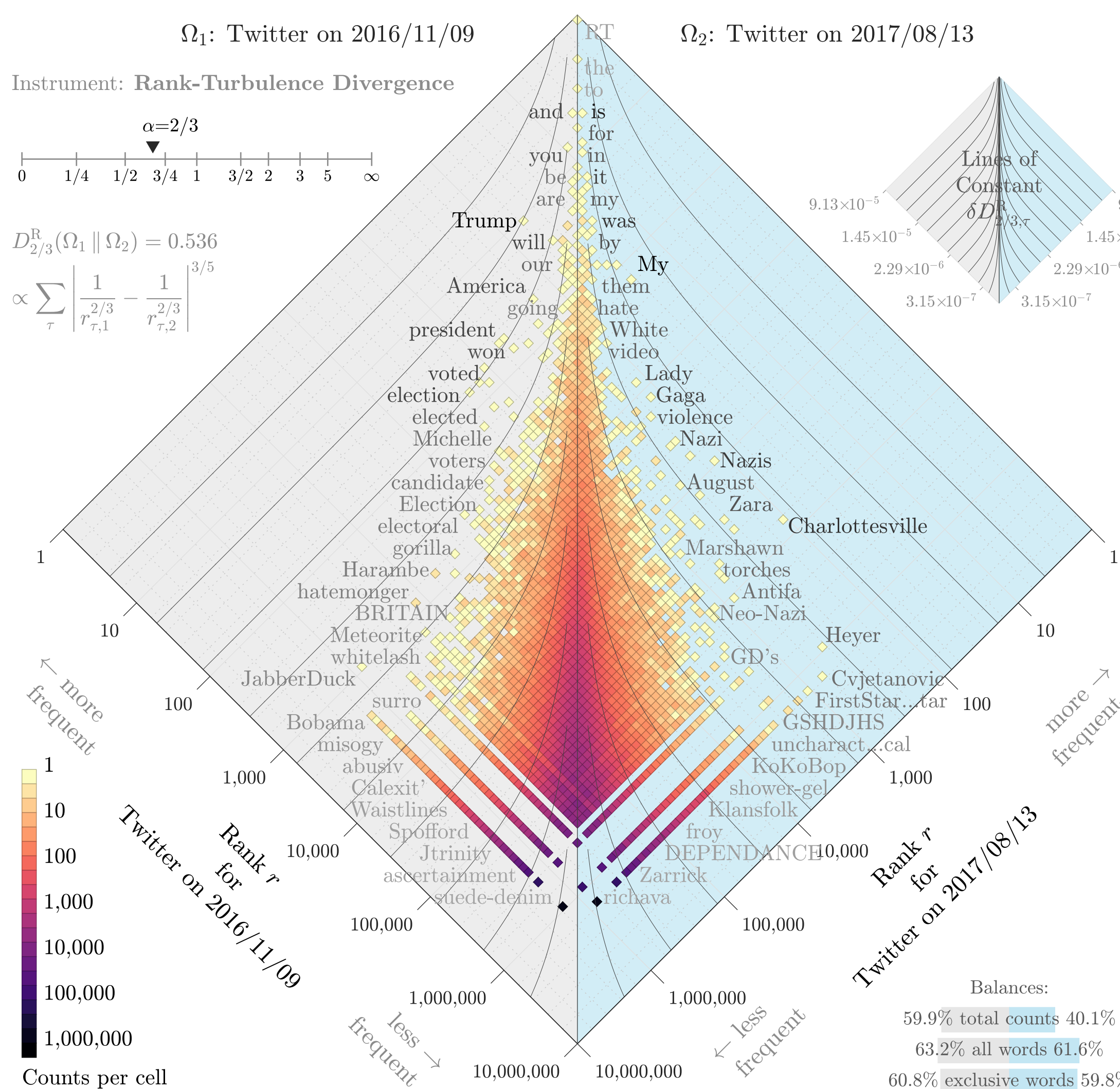
Instrument: Rank-Turbulence Divergence

$\alpha=2/3$



$$D_{2/3}^R(\Omega_1 \parallel \Omega_2) = 0.536$$

$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{2/3}} - \frac{1}{r_{\tau,2}^{2/3}} \right|^{3/5}$$

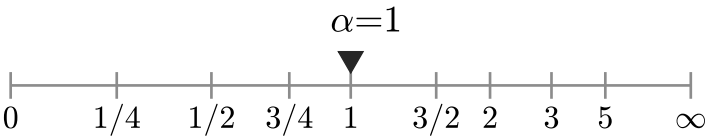


Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

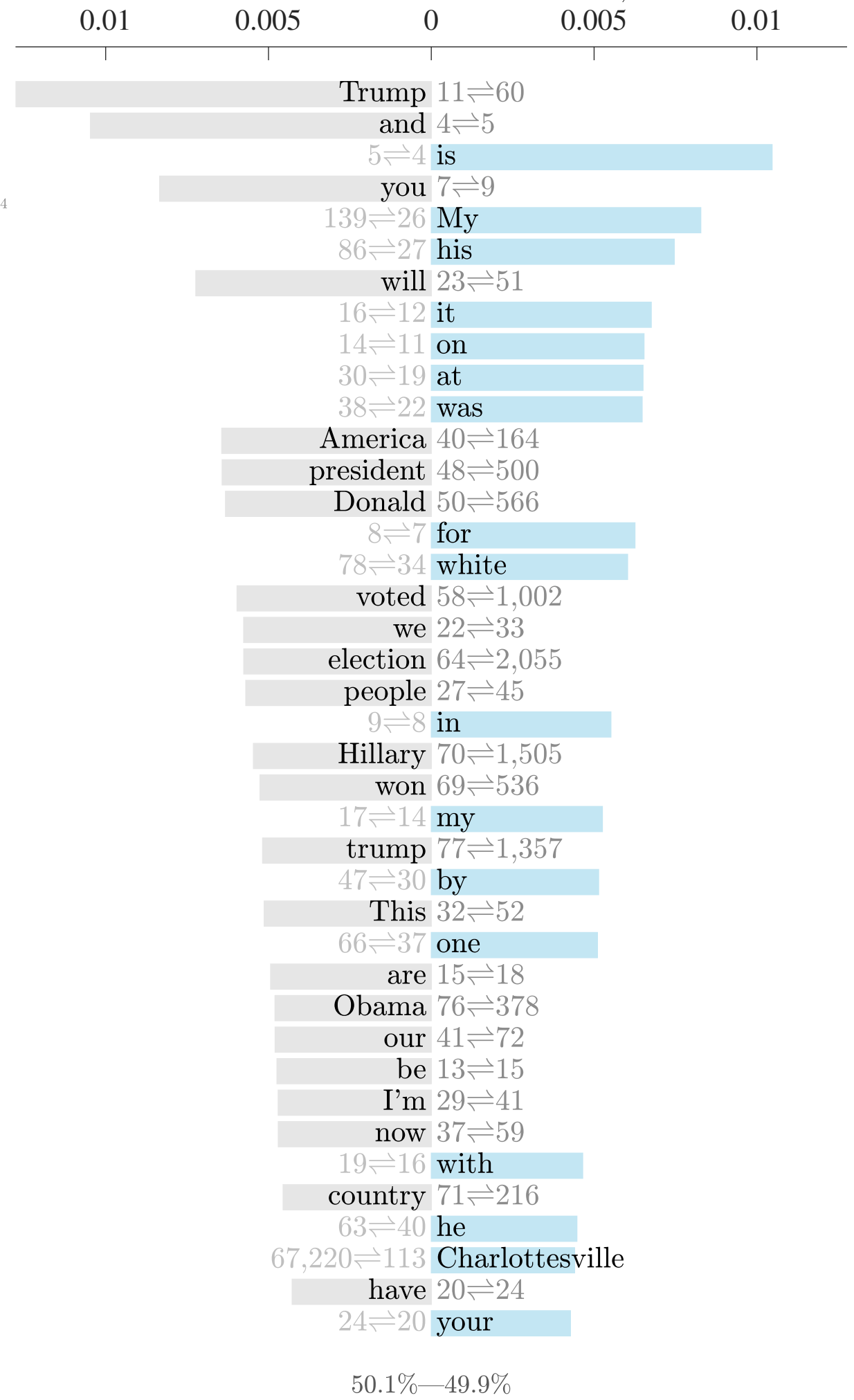
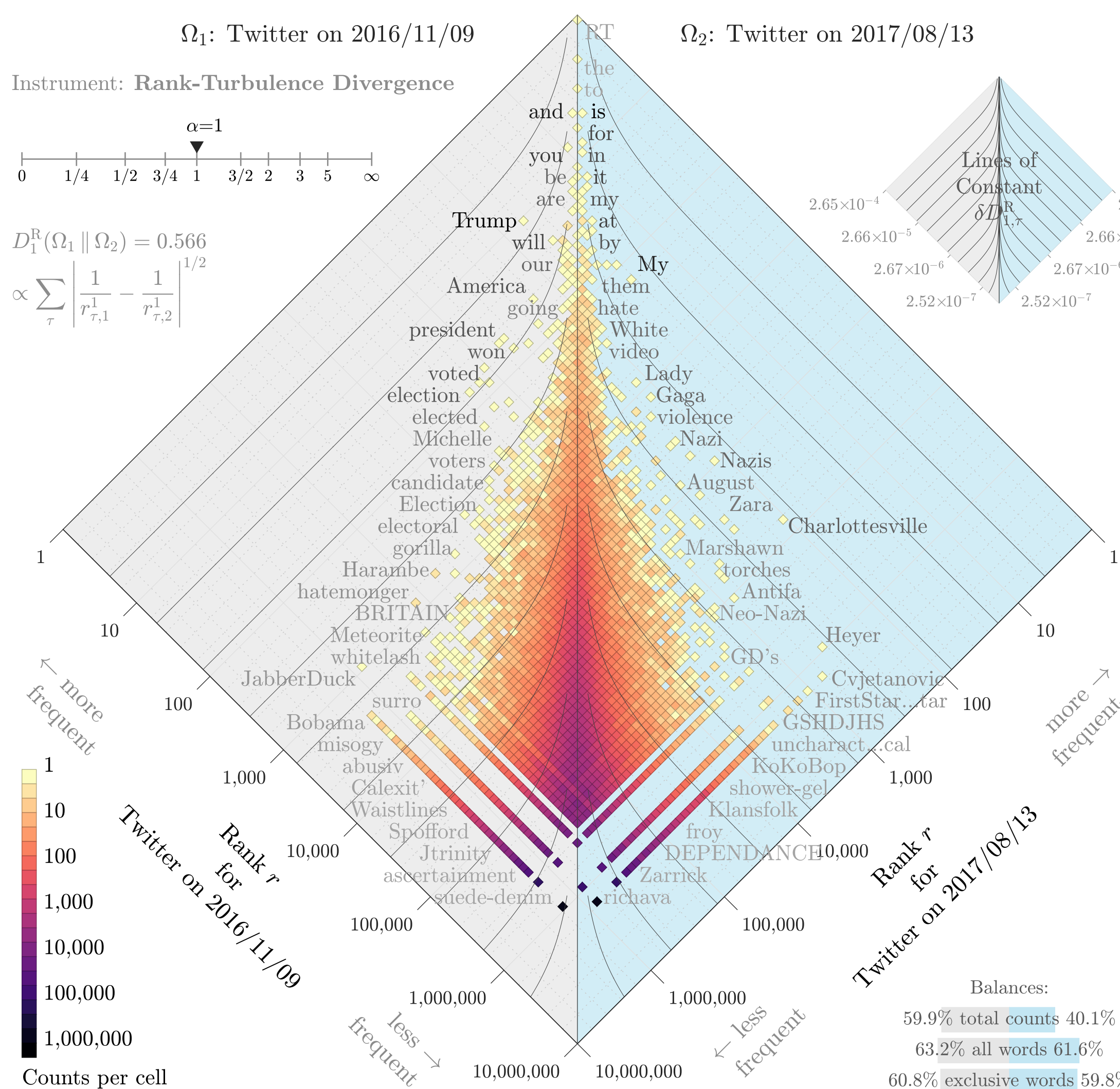
Divergence contribution $\delta D_{1,\tau}^R(\%)$

Instrument: Rank-Turbulence Divergence



$$D_1^R(\Omega_1 \parallel \Omega_2) = 0.566$$

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



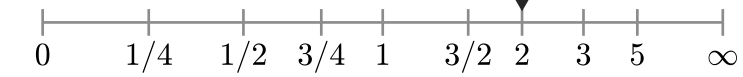
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{2,\tau}^R$ (%)

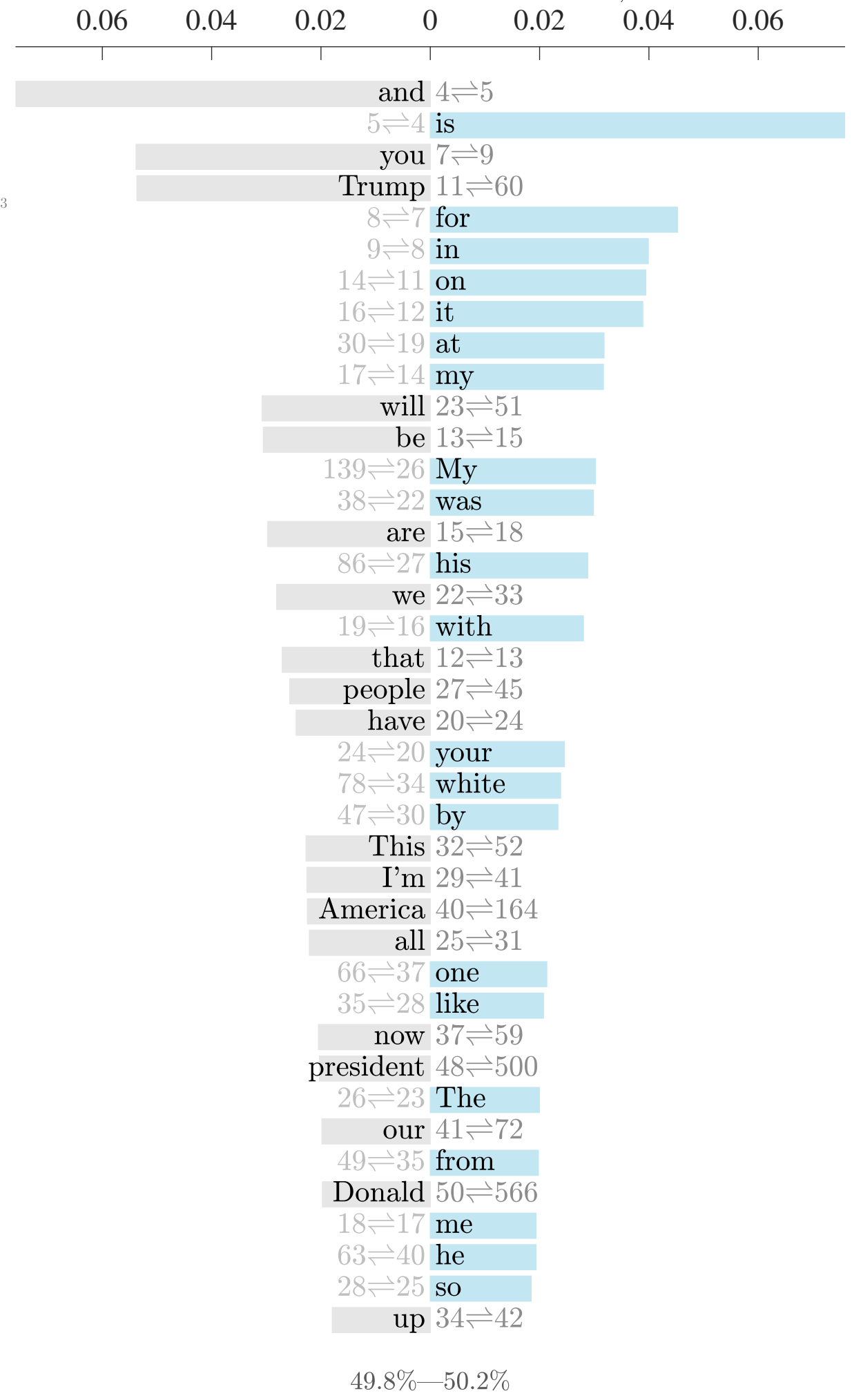
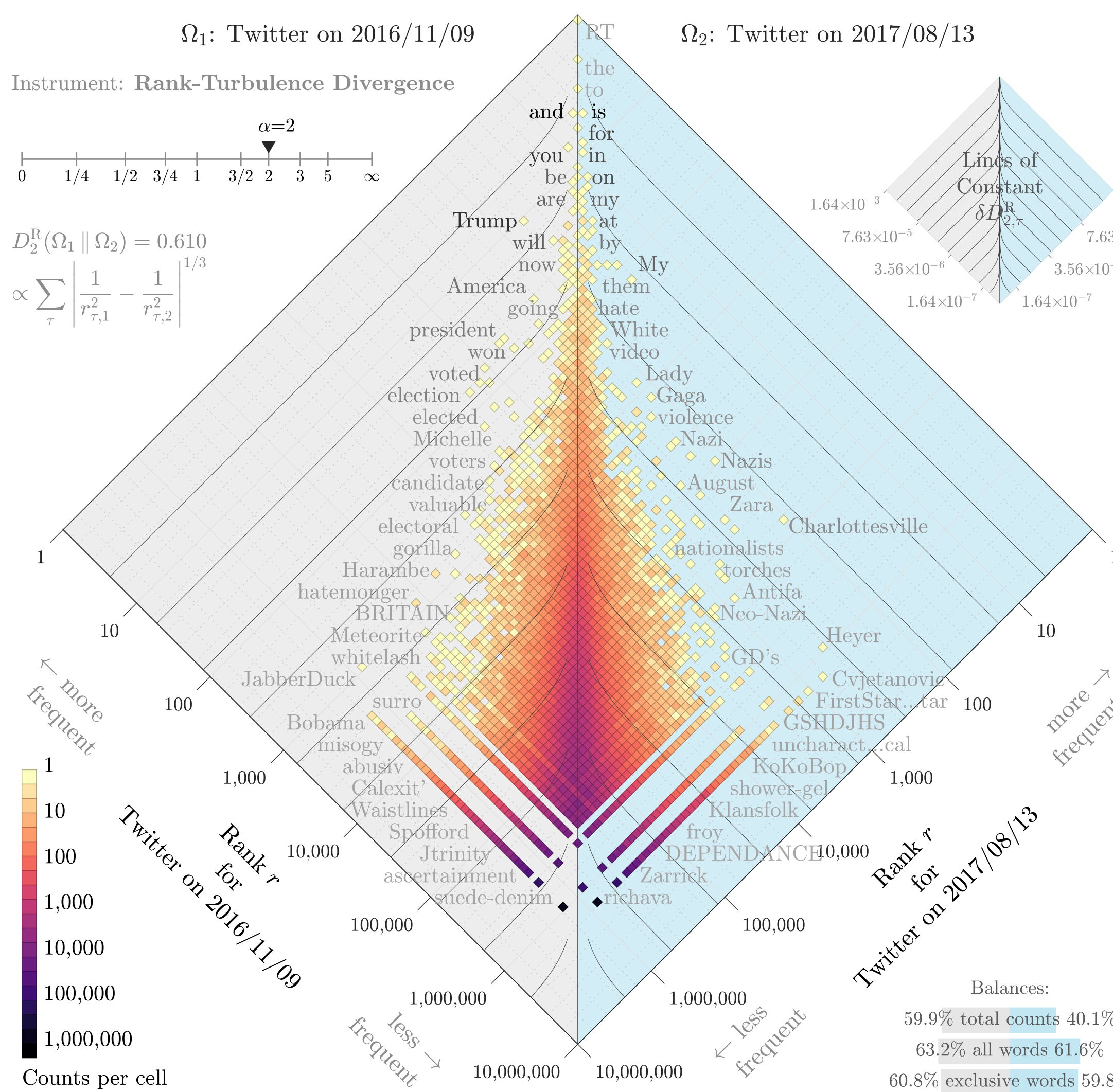
Instrument: Rank-Turbulence Divergence

$\alpha=2$



$$D_2^R(\Omega_1 \parallel \Omega_2) = 0.610$$

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



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

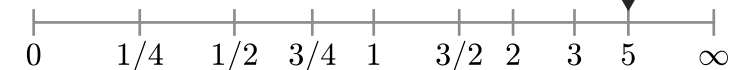
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{5,\tau}^R(\%)$

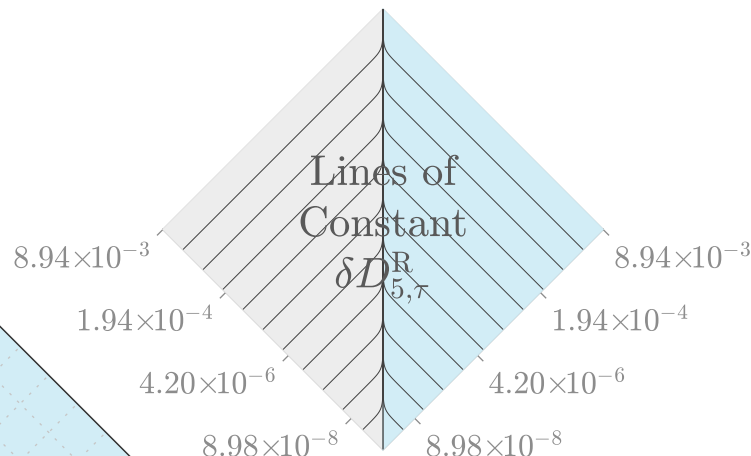
Instrument: Rank-Turbulence Divergence

$\alpha=5$

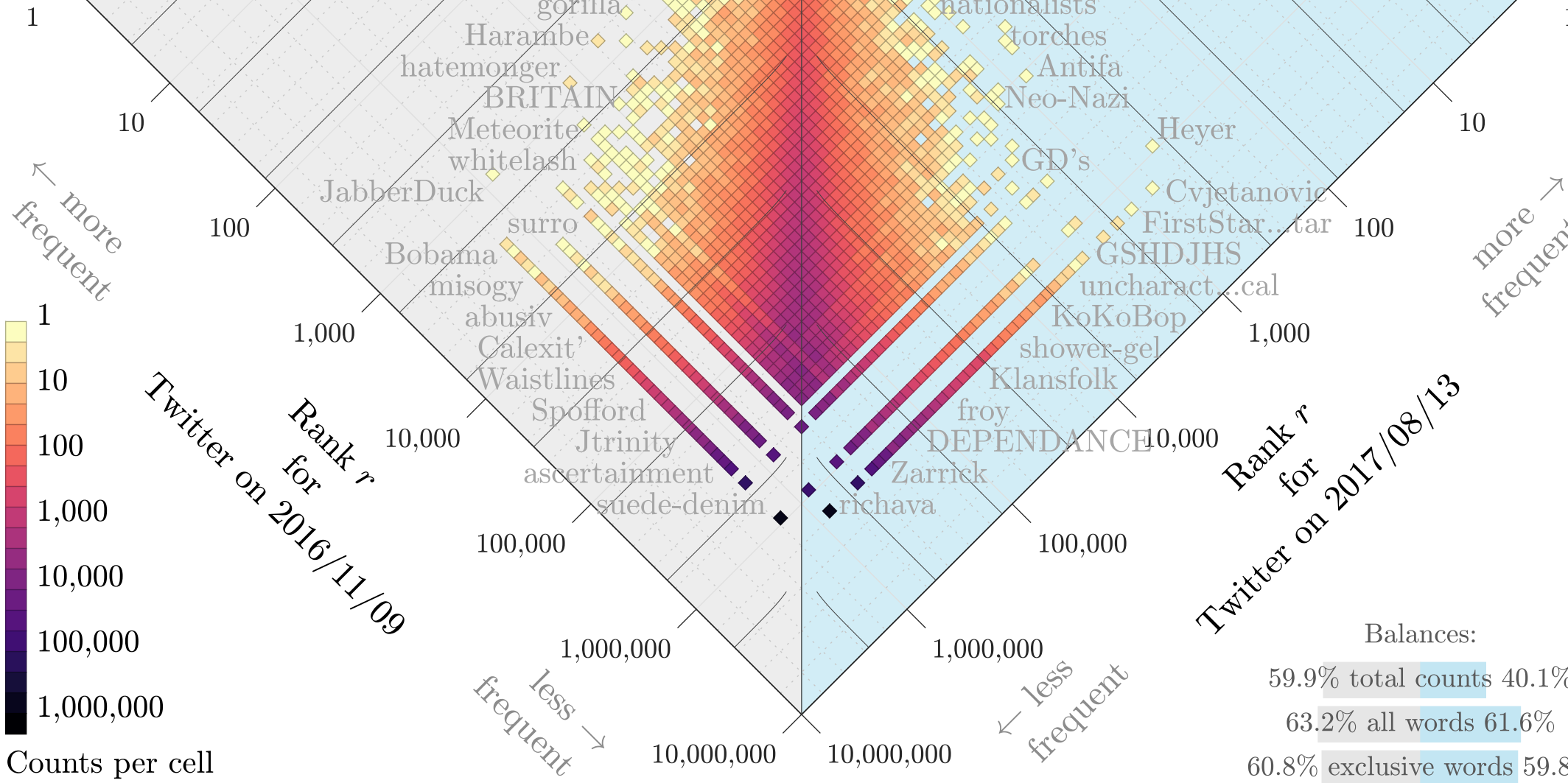


$D_5^R(\Omega_1 || \Omega_2) = 0.620$

$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^5} - \frac{1}{r_{\tau,2}^5} \right|^{1/6}$



and	4⇌5
is	5⇌4
you	7⇌9
for	8⇌7
in	9⇌8
Trump	11⇌60
on	14⇌11
it	16⇌12
be	13⇌15
that	12⇌13
my	17⇌14
are	15⇌18
with	19⇌16
at	30⇌19
have	20⇌24
your	24⇌20
was	38⇌22
me	18⇌17
we	22⇌33
will	23⇌51
My	139⇌26
The	26⇌23
his	86⇌27
all	25⇌31
people	27⇌45
so	28⇌25
I'm	29⇌41
like	35⇌28
by	47⇌30
This	32⇌52
but	33⇌29
white	78⇌34
from	49⇌35
up	34⇌42
one	66⇌37
now	37⇌59
America	40⇌164
he	63⇌40
our	41⇌72
about	39⇌49



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

48.9%—51.1%

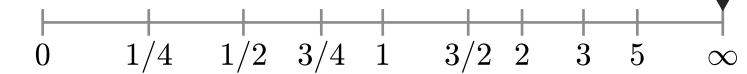
Ω_1 : Twitter on 2016/11/09

Ω_2 : Twitter on 2017/08/13

Divergence contribution $\delta D_{\infty, \tau}^R$ (%)

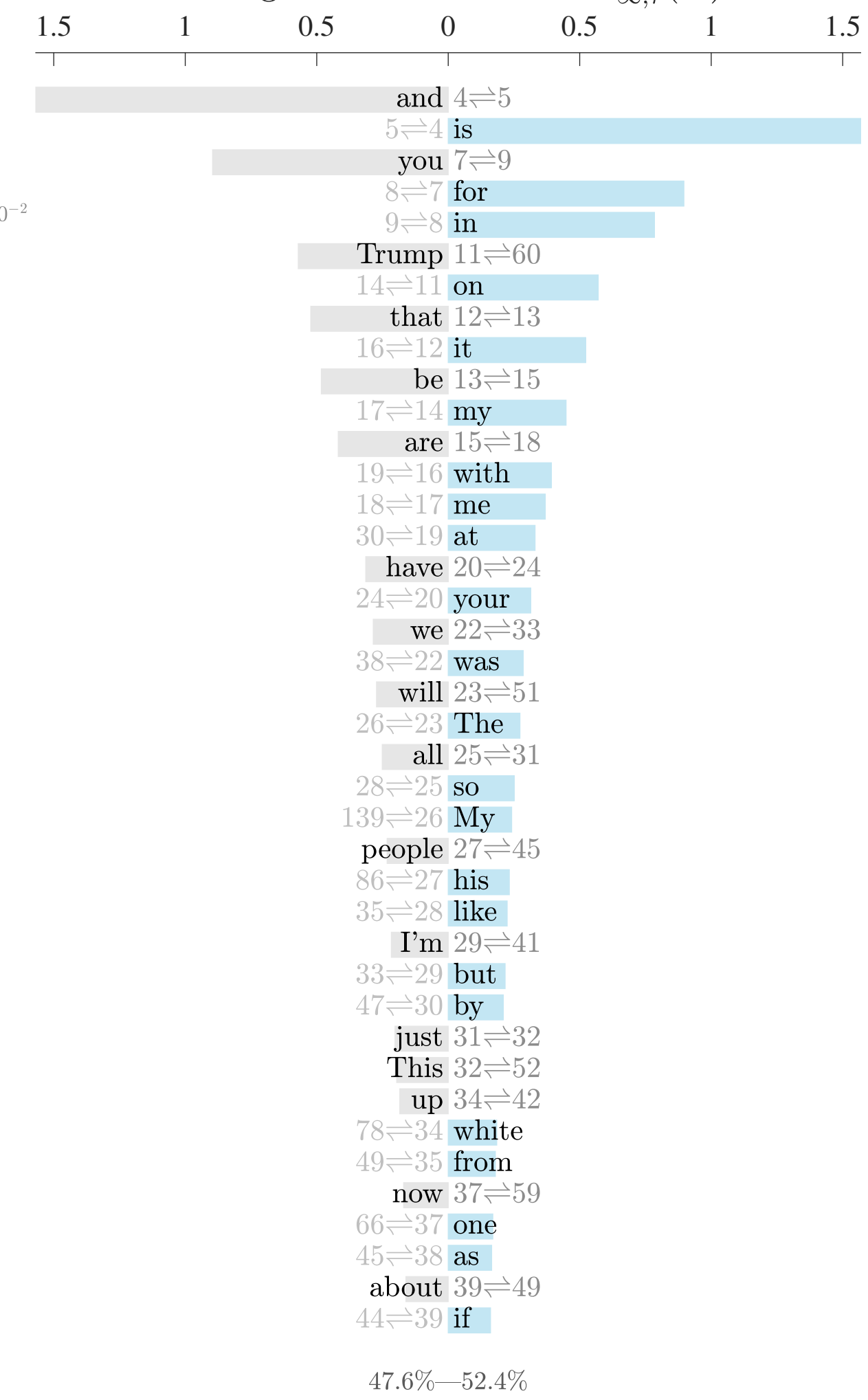
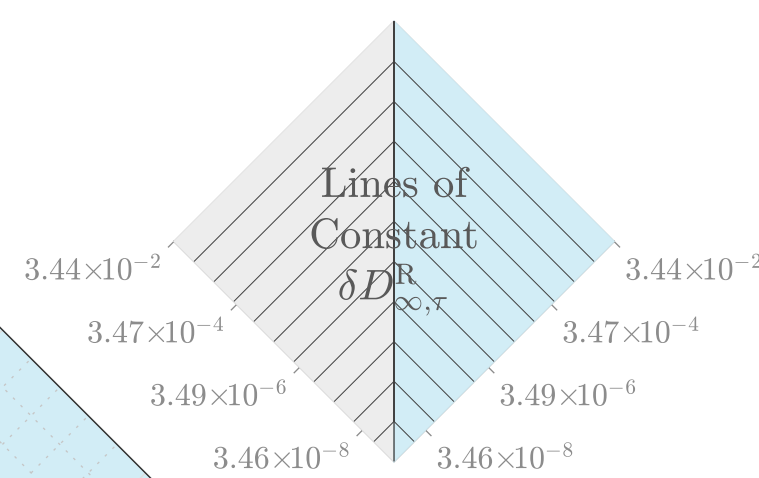
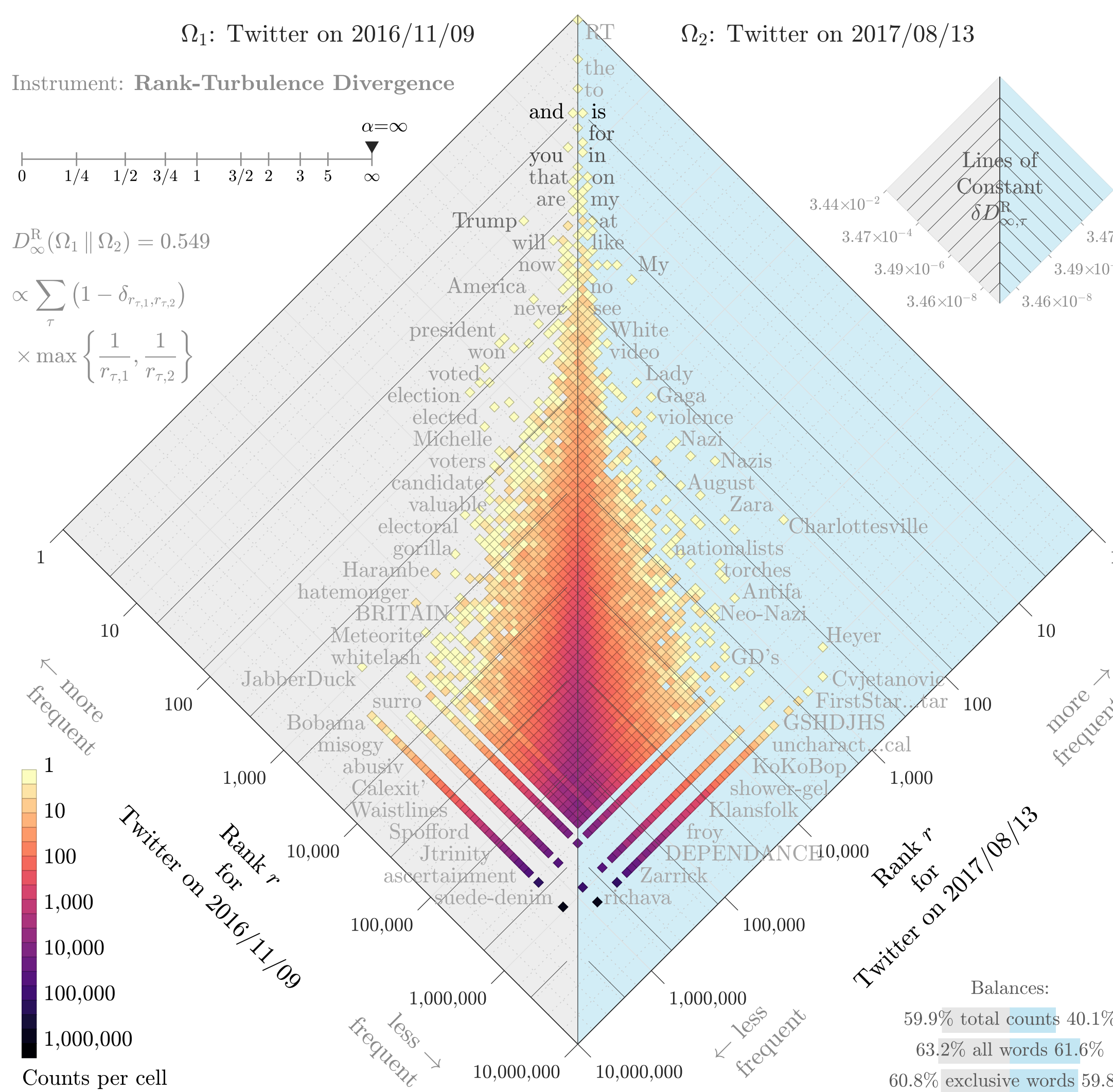
Instrument: Rank-Turbulence Divergence

$\alpha = \infty$



$$D_{\infty}^R(\Omega_1 \parallel \Omega_2) = 0.549$$

$$\propto \sum_{\tau} (1 - \delta_{r_{\tau,1}, r_{\tau,2}}) \times \max \left\{ \frac{1}{r_{\tau,1}}, \frac{1}{r_{\tau,2}} \right\}$$



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