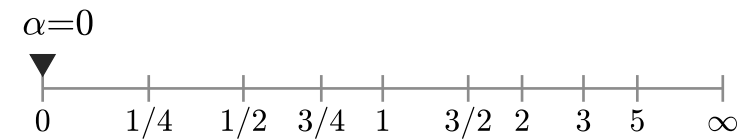


Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

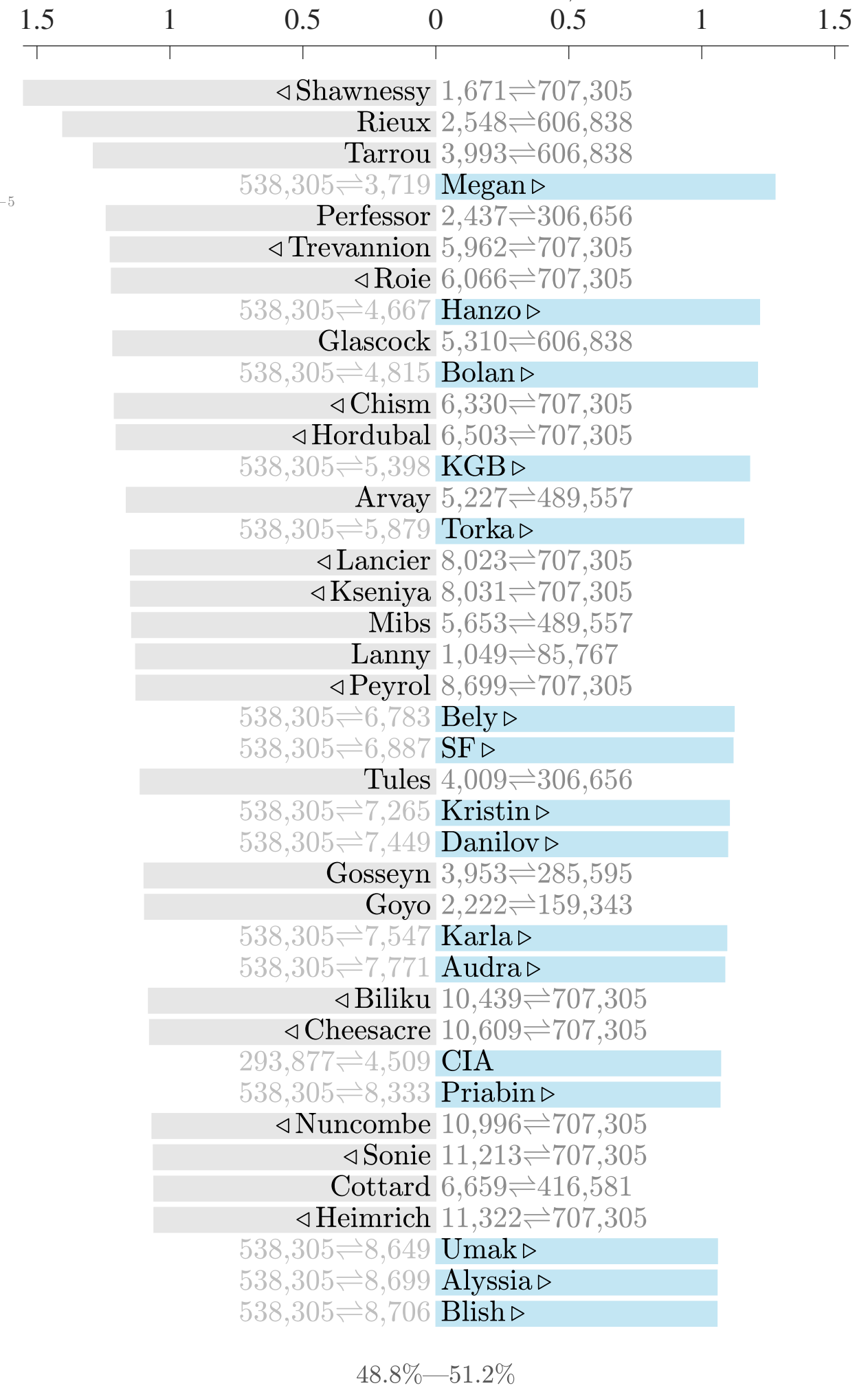
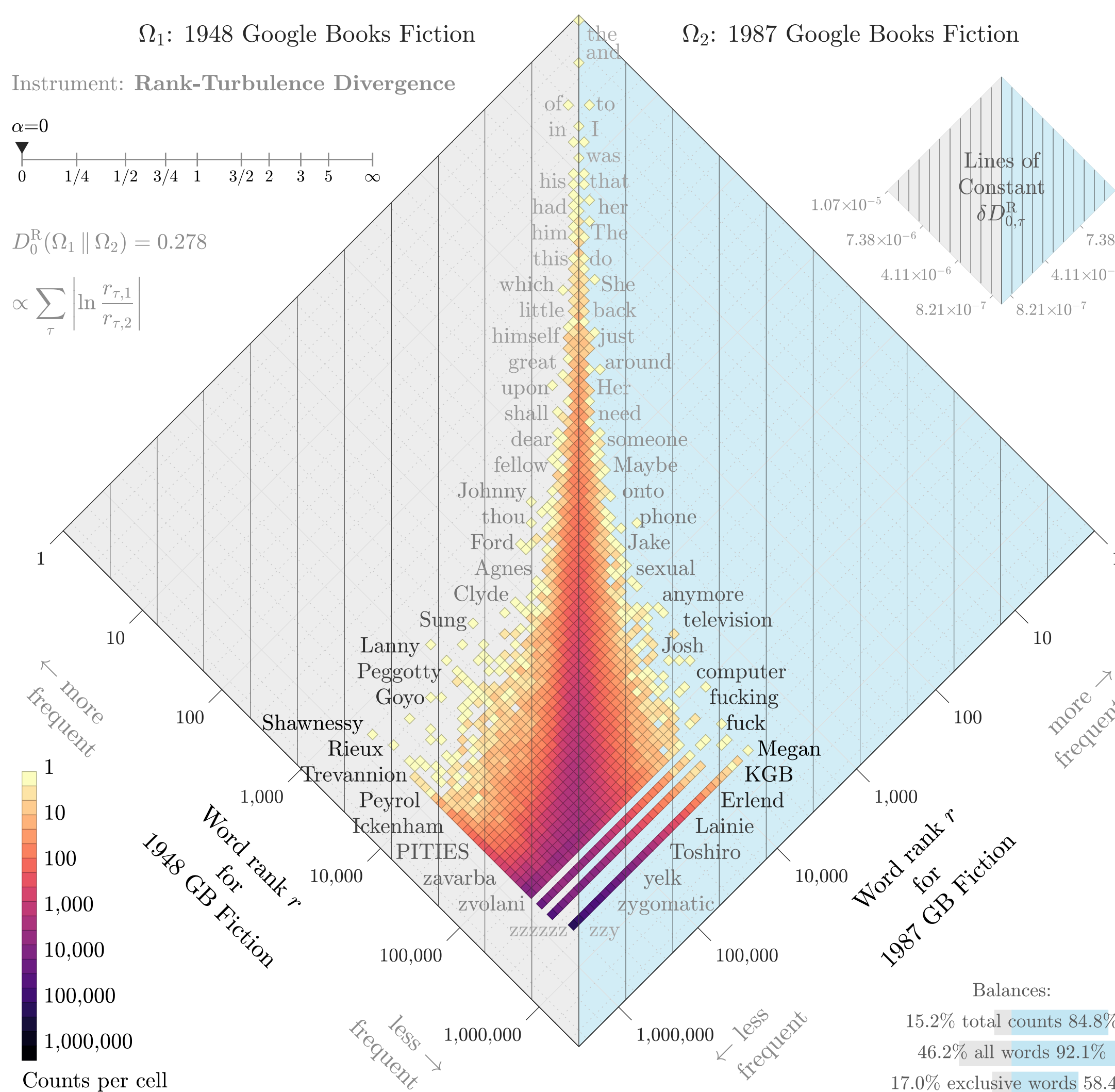
Divergence contribution $\delta D_{0,\tau}^R (\times 10^{-3}\%)$

Instrument: Rank-Turbulence Divergence



$D_0^R(\Omega_1 \parallel \Omega_2) = 0.278$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

48.8%—51.2%

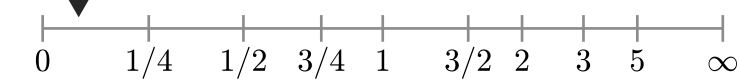
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

Divergence contribution $\delta D_{1/12,\tau}^R (\times 10^{-3}\%)$

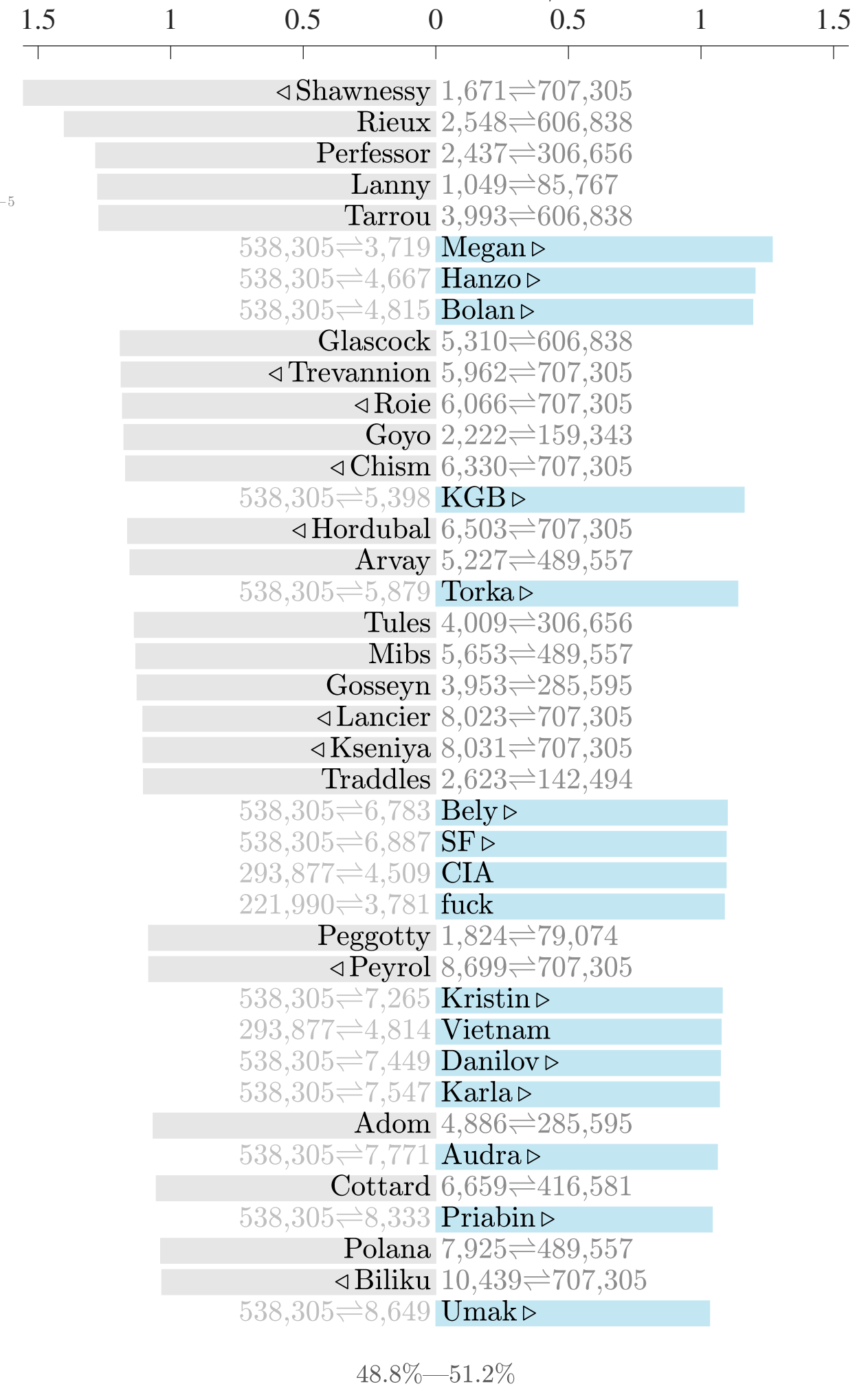
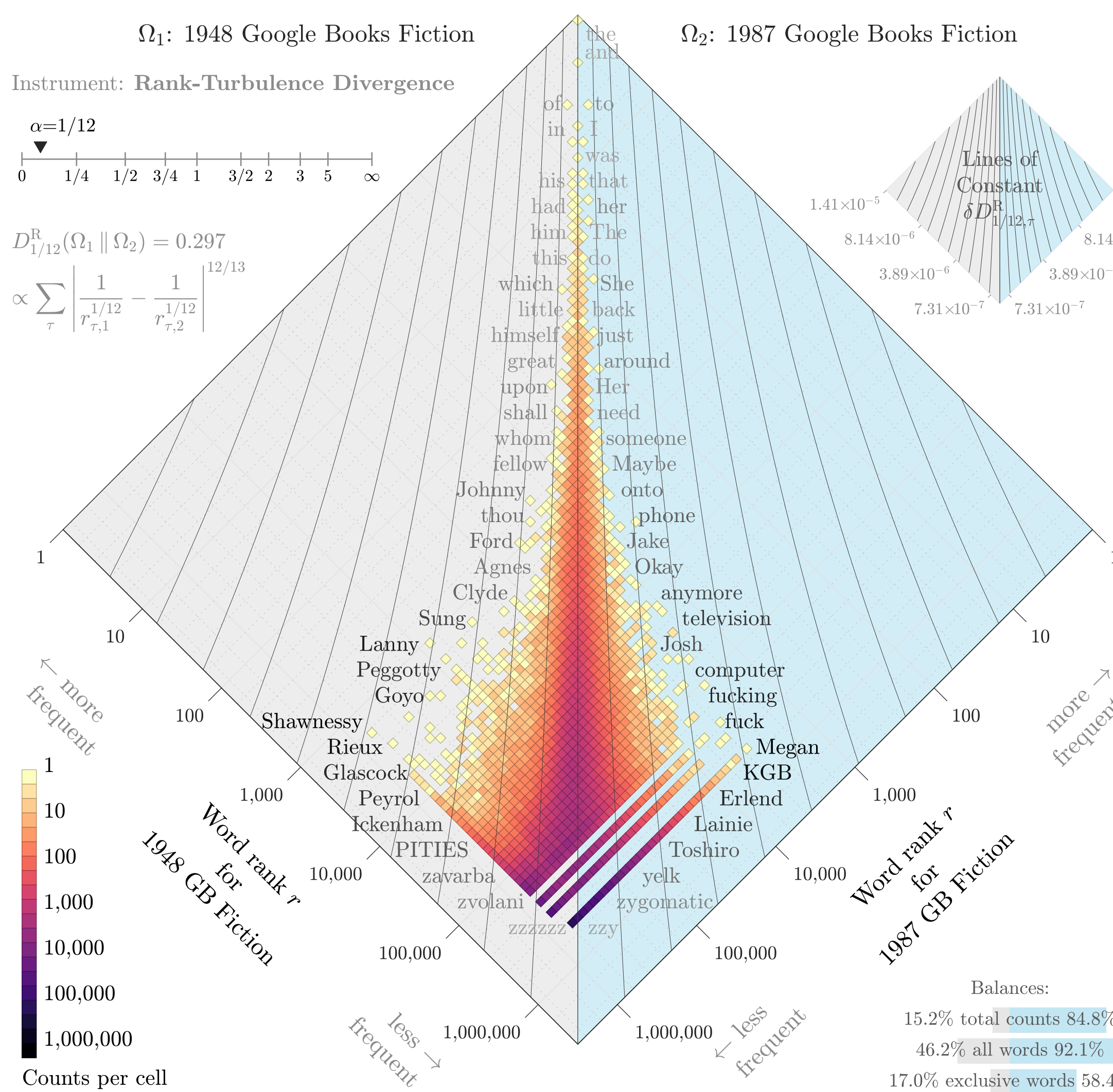
Instrument: Rank-Turbulence Divergence

$\alpha=1/12$



$$D_{1/12}^R(\Omega_1 \parallel \Omega_2) = 0.297$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

48.8%—51.2%

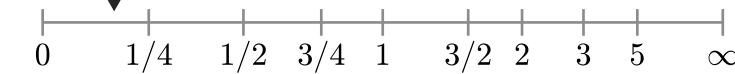
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

Divergence contribution $\delta D_{1/6,\tau}^R (\times 10^{-3}\%)$

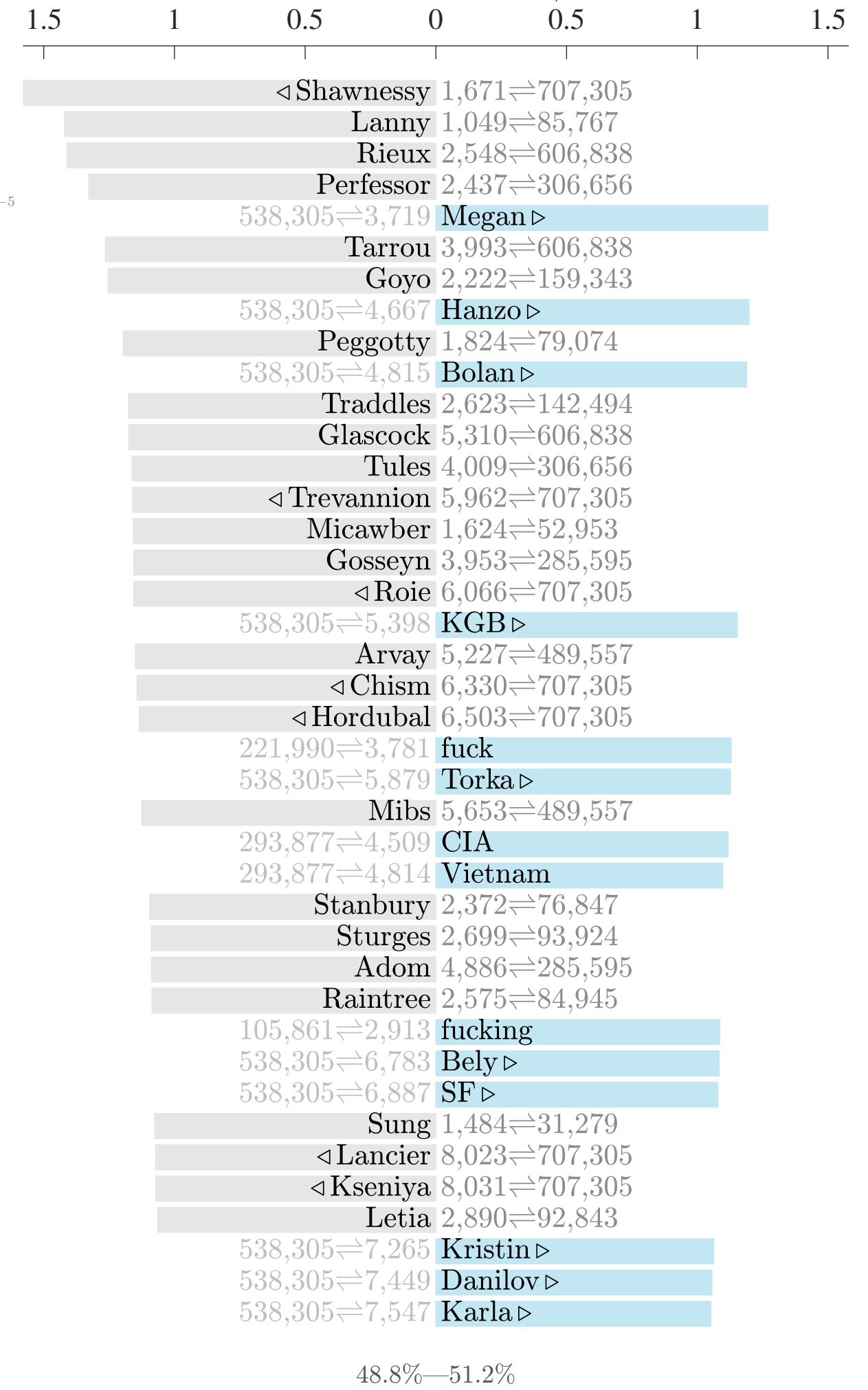
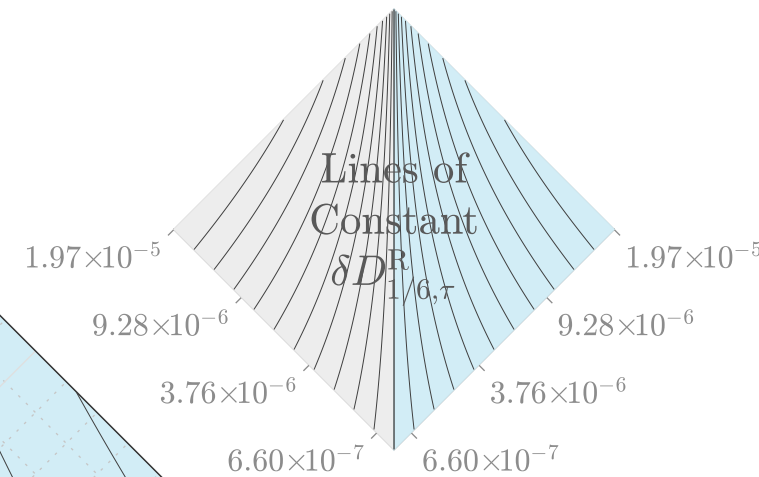
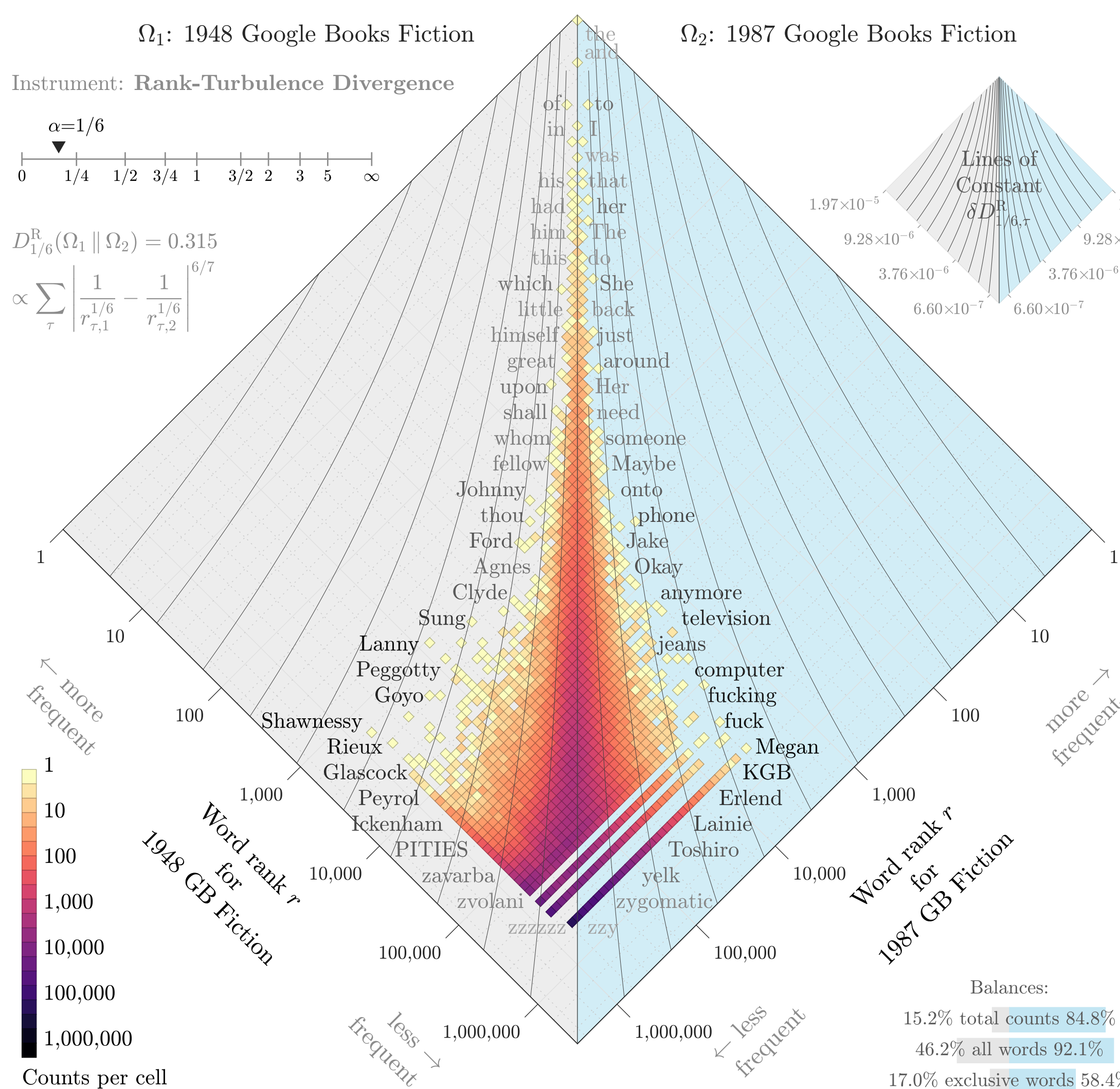
Instrument: Rank-Turbulence Divergence

$\alpha=1/6$



$$D_{1/6}^R(\Omega_1 \parallel \Omega_2) = 0.315$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

48.8%—51.2%

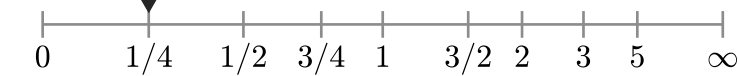
Ω₁: 1948 Google Books Fiction

Ω₂: 1987 Google Books Fiction

Divergence contribution $\delta D_{1/4,\tau}^R (\times 10^{-3}\%)$

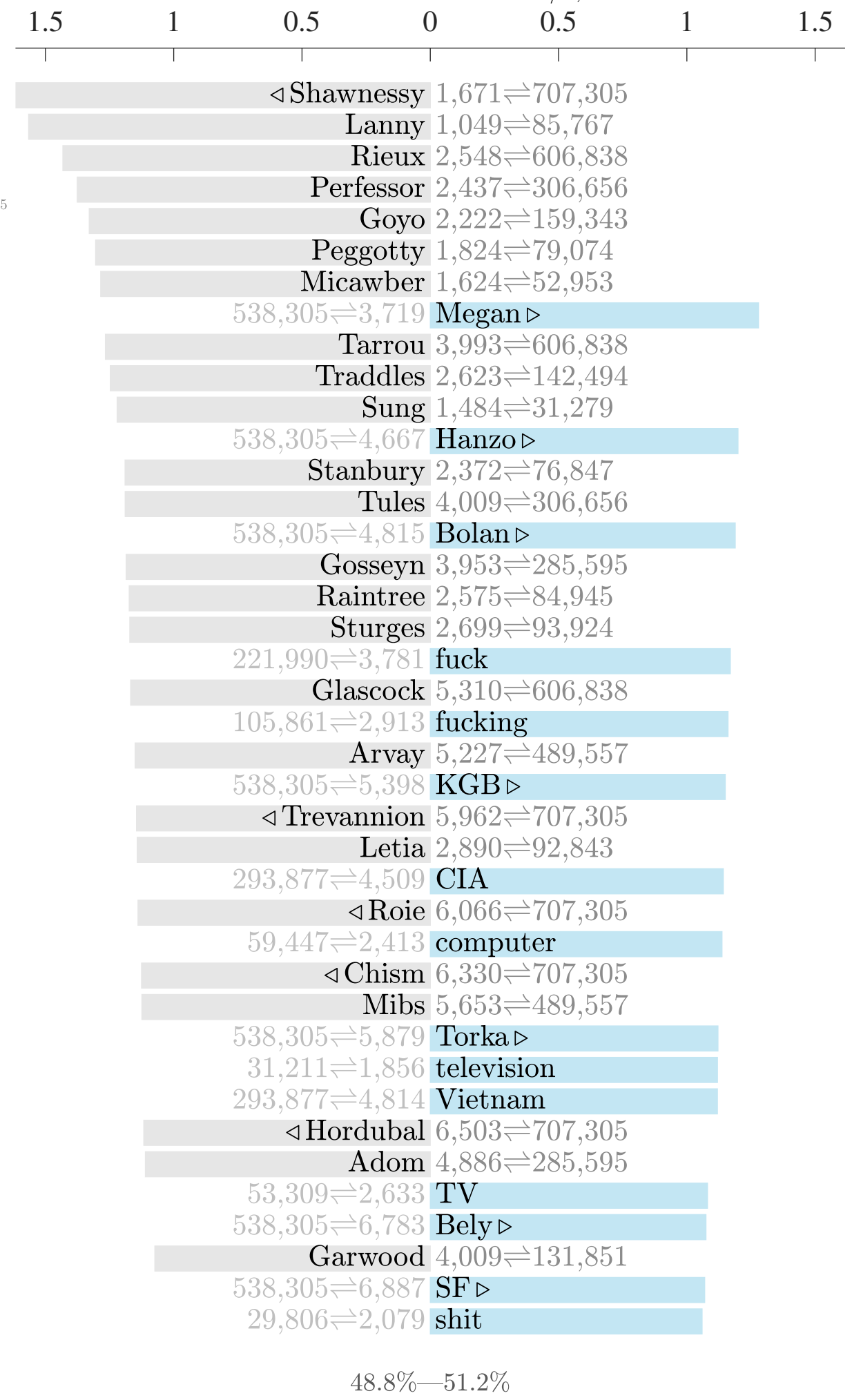
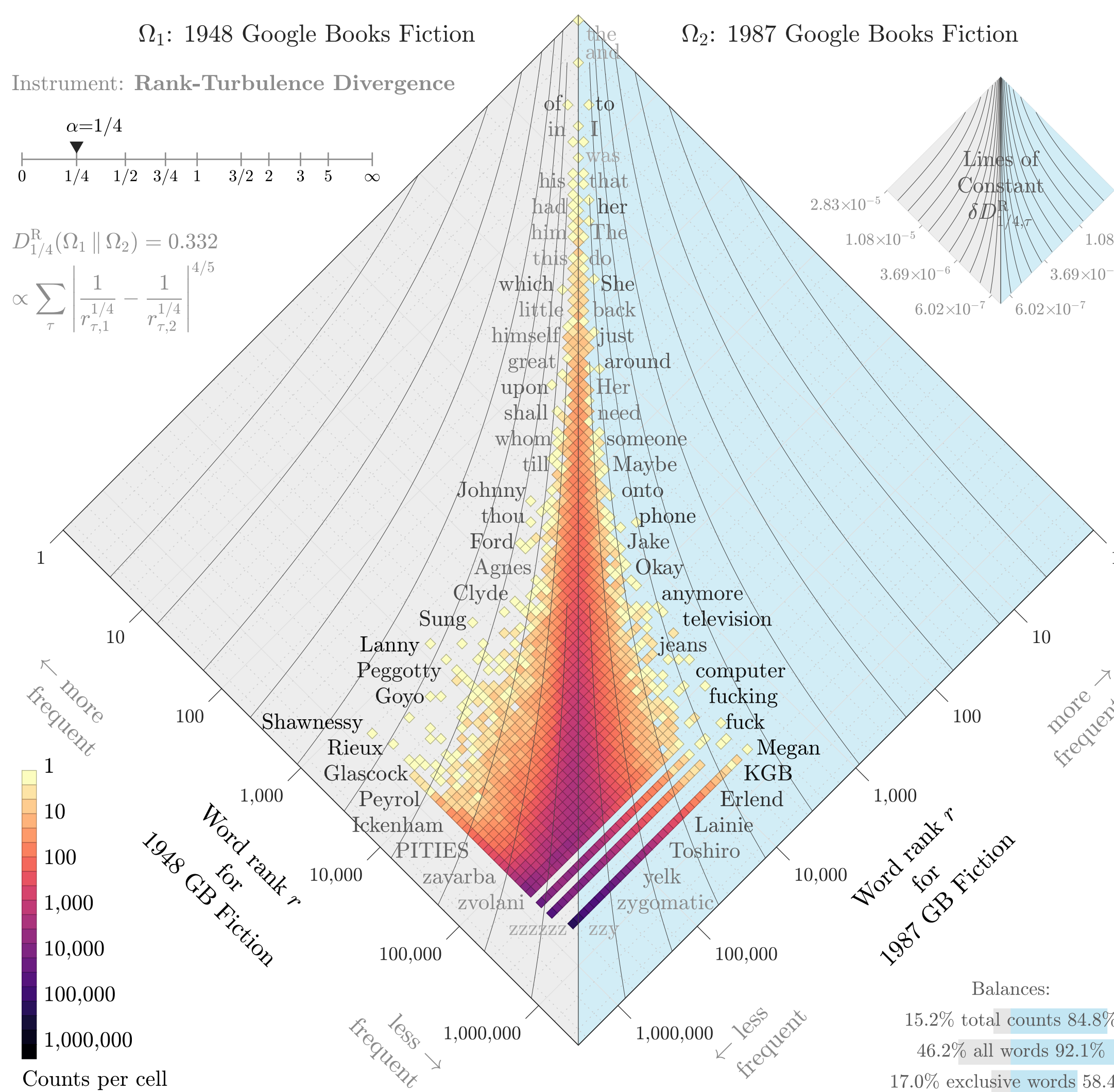
Instrument: Rank-Turbulence Divergence

α=1/4



$$D_{1/4}^R(\Omega_1 \parallel \Omega_2) = 0.332$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

48.8%—51.2%

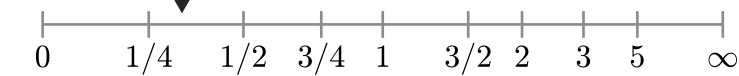
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

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

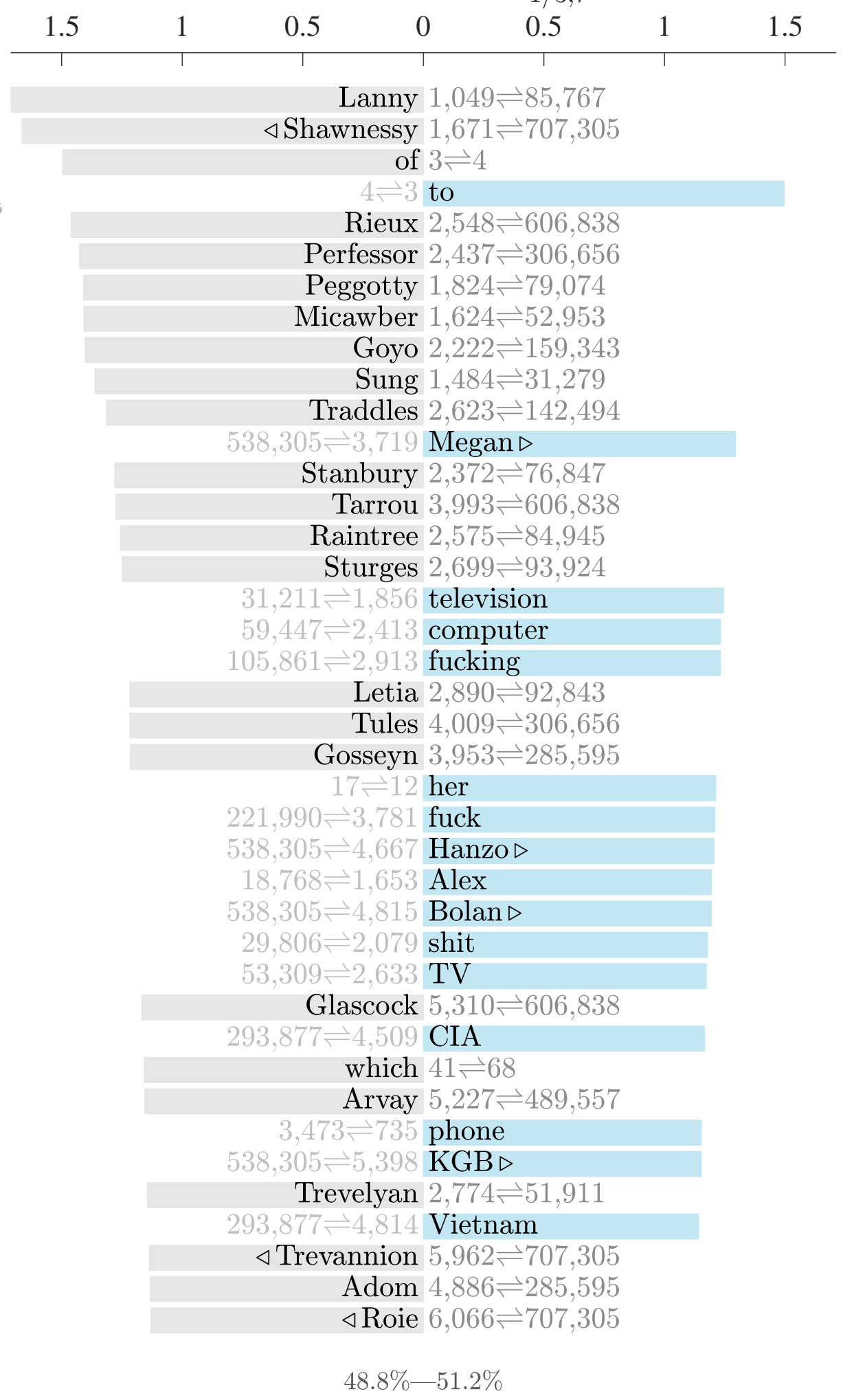
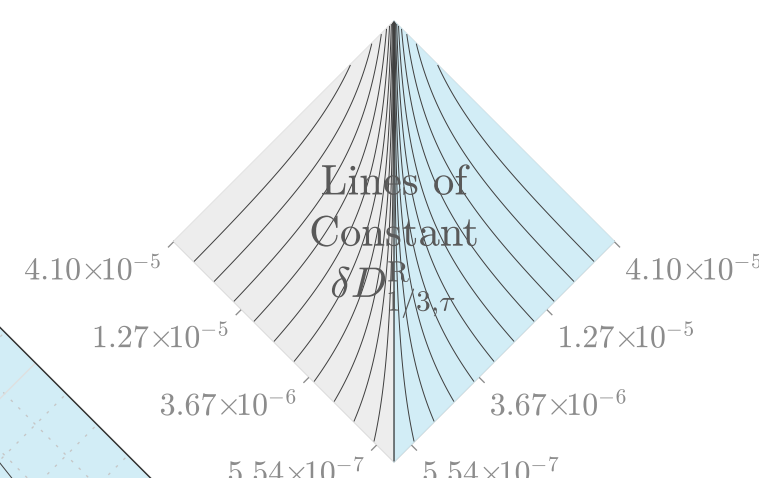
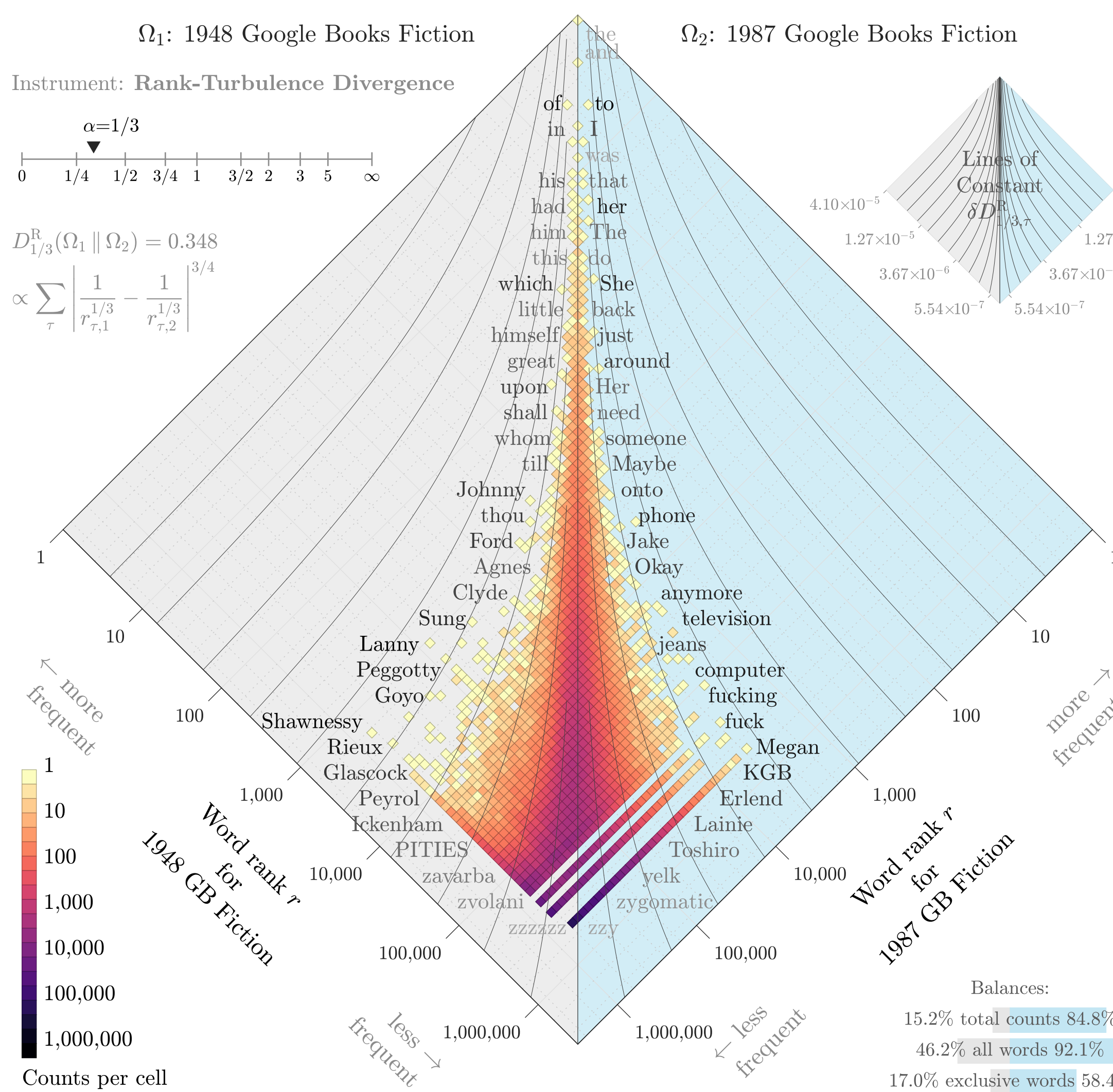
Instrument: Rank-Turbulence Divergence

$\alpha=1/3$



$$D_{1/3}^R(\Omega_1 \parallel \Omega_2) = 0.348$$

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



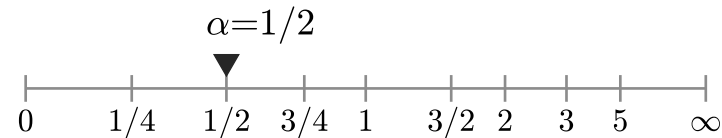
Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

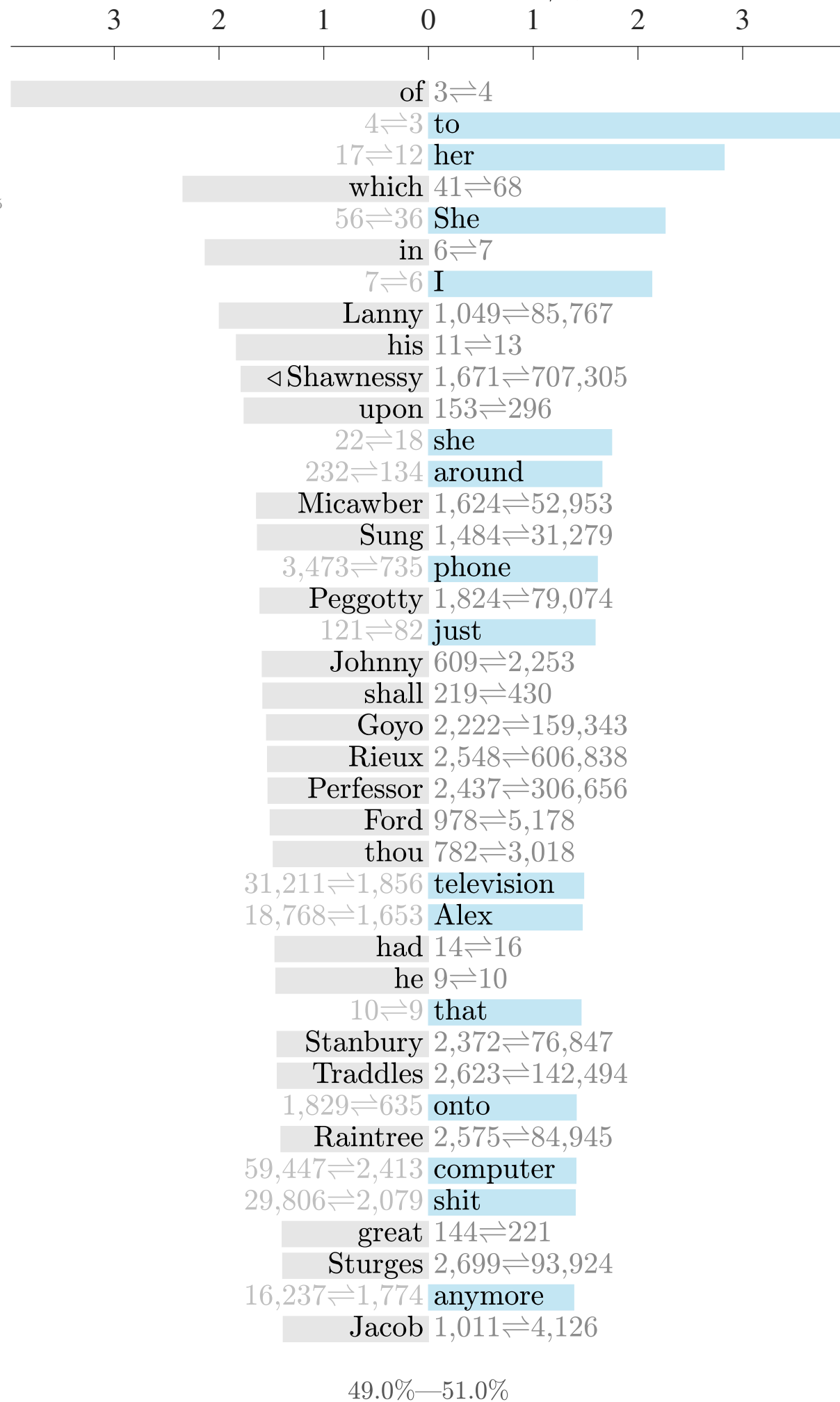
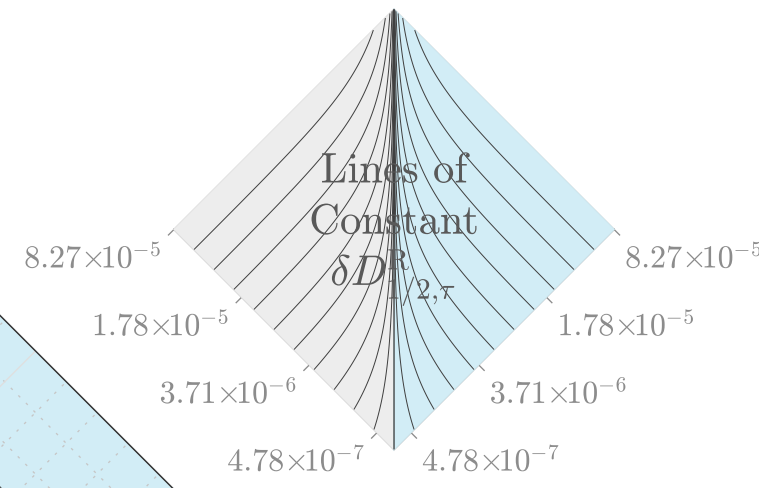
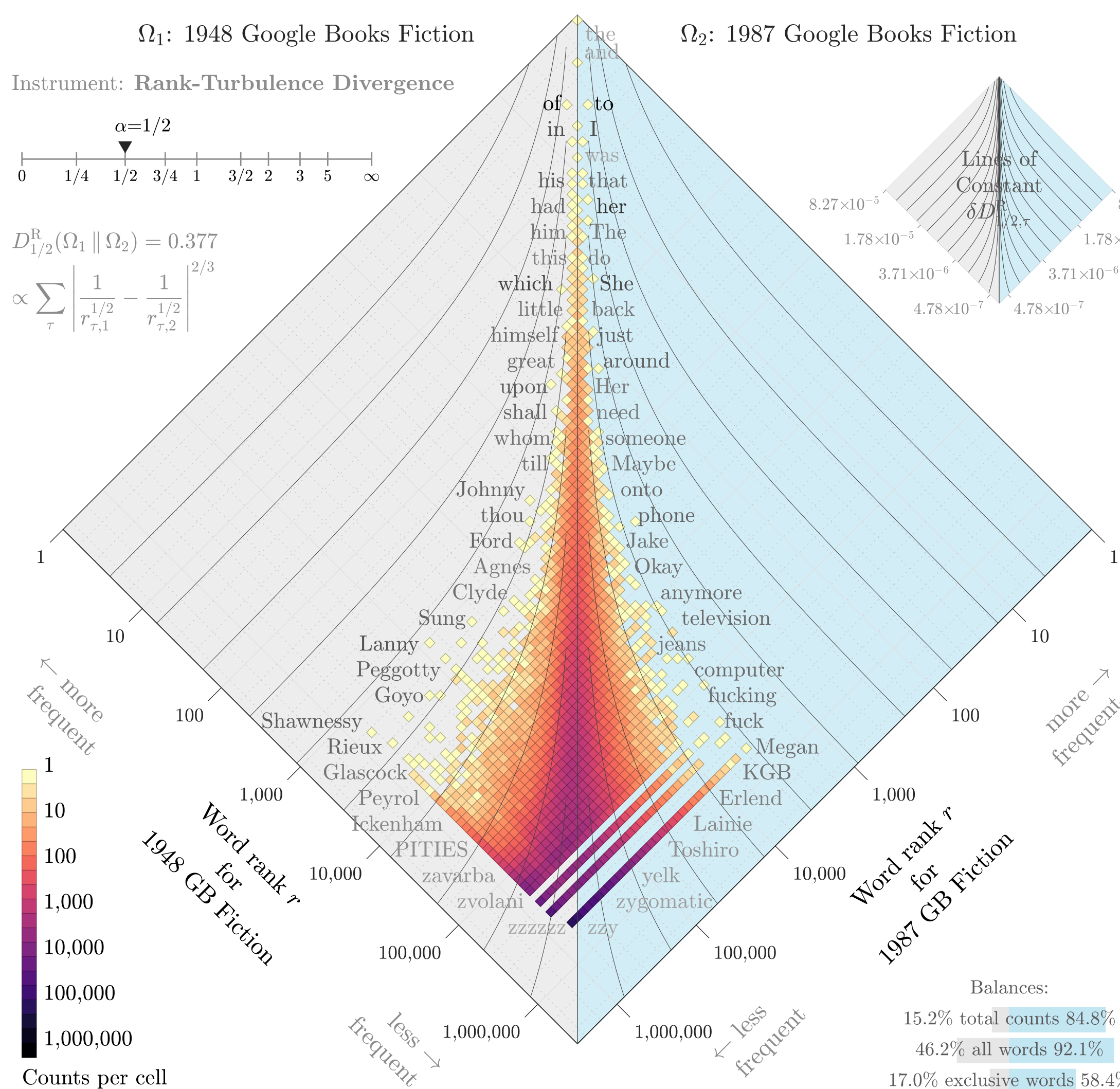
Divergence contribution $\delta D_{1/2,\tau}^R (\times 10^{-3}\%)$

Instrument: Rank-Turbulence Divergence



$$D_{1/2}^R(\Omega_1 \parallel \Omega_2) = 0.377$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

49.0%—51.0%

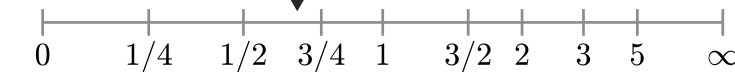
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

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

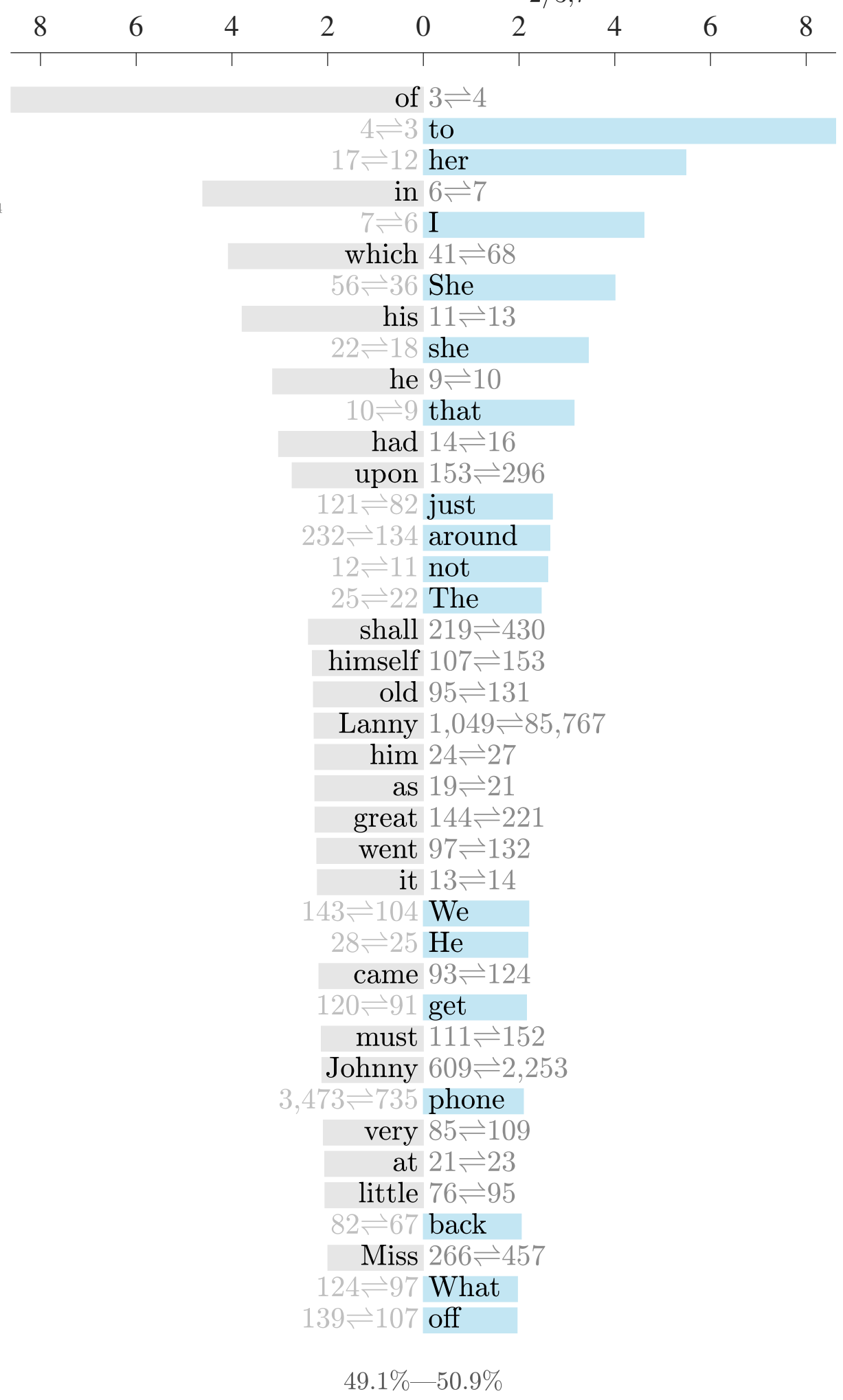
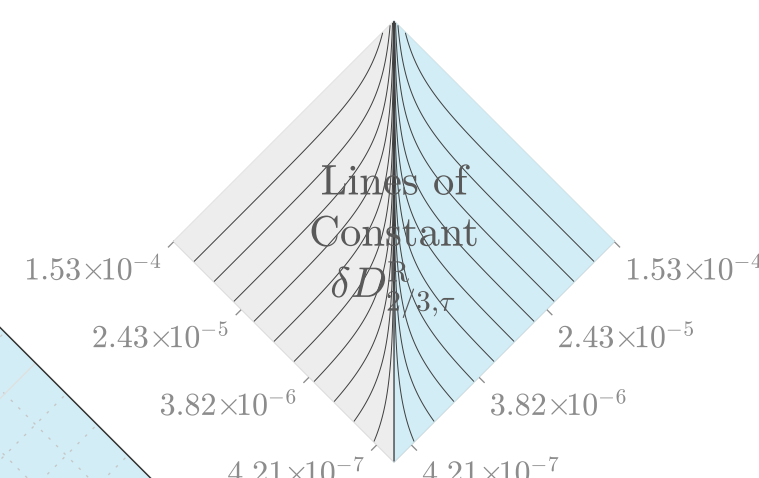
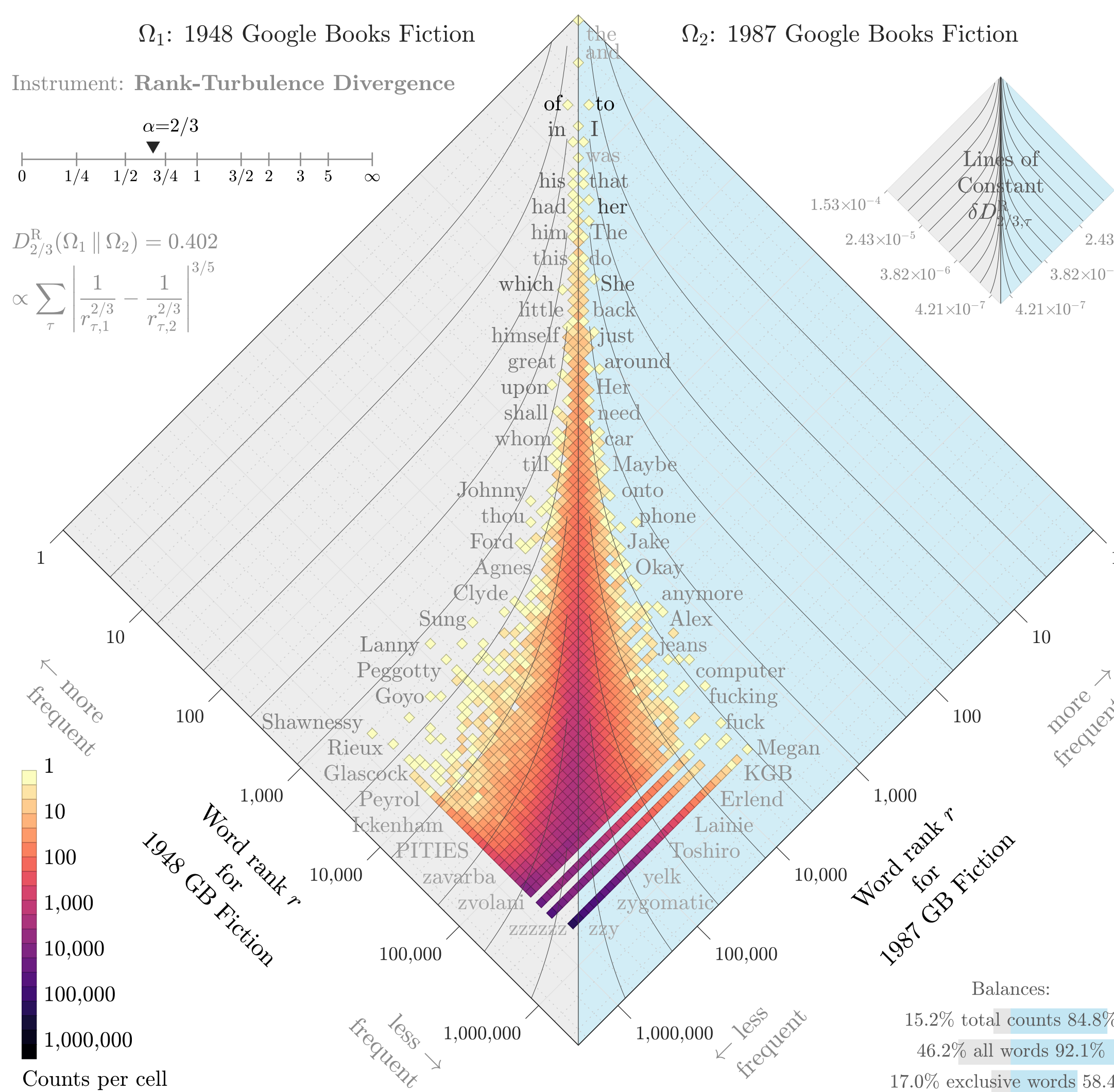
Instrument: Rank-Turbulence Divergence

$\alpha=2/3$



$$D_{2/3}^R(\Omega_1 \parallel \Omega_2) = 0.402$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

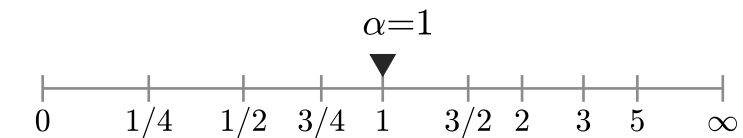
49.1%—50.9%

Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

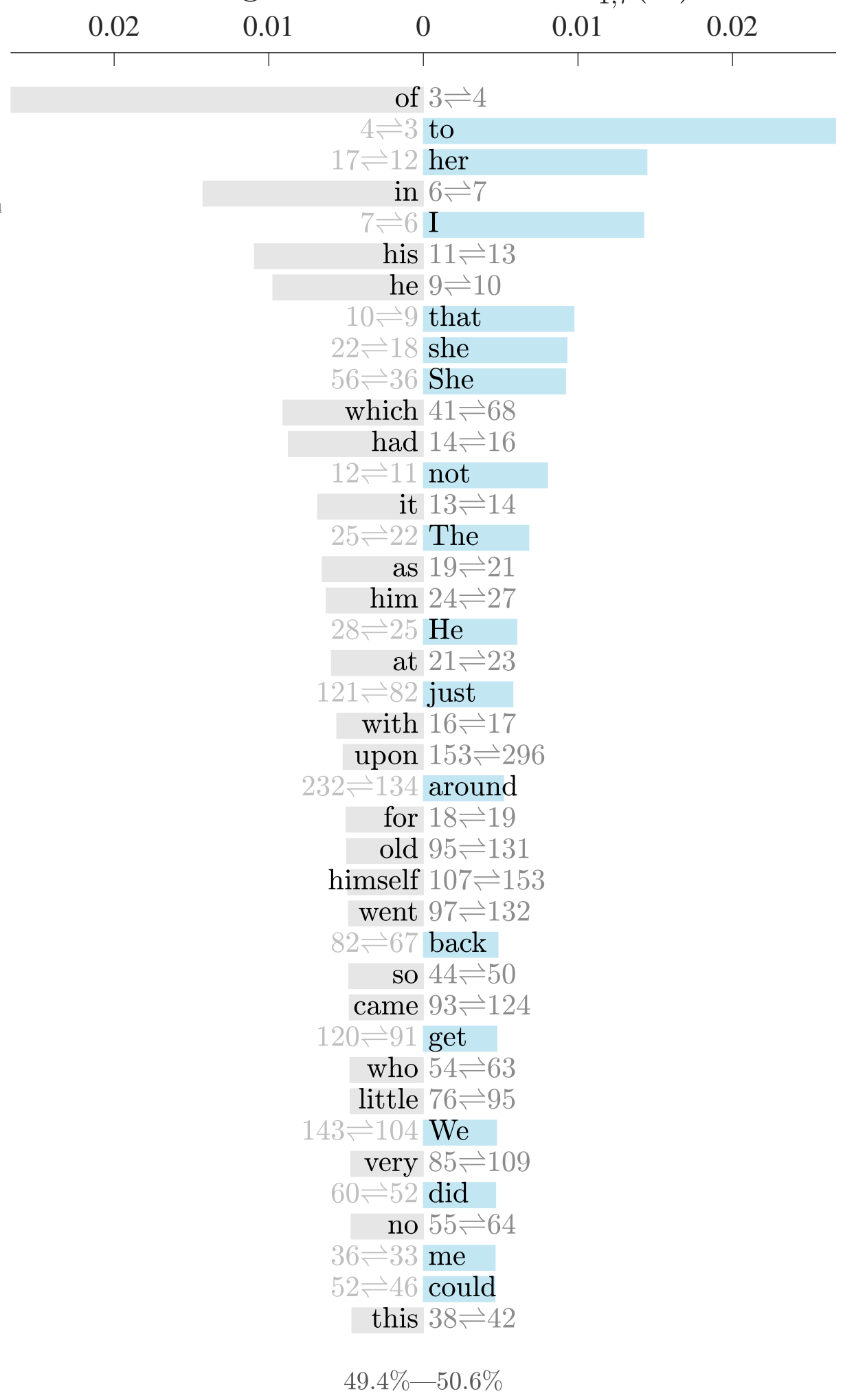
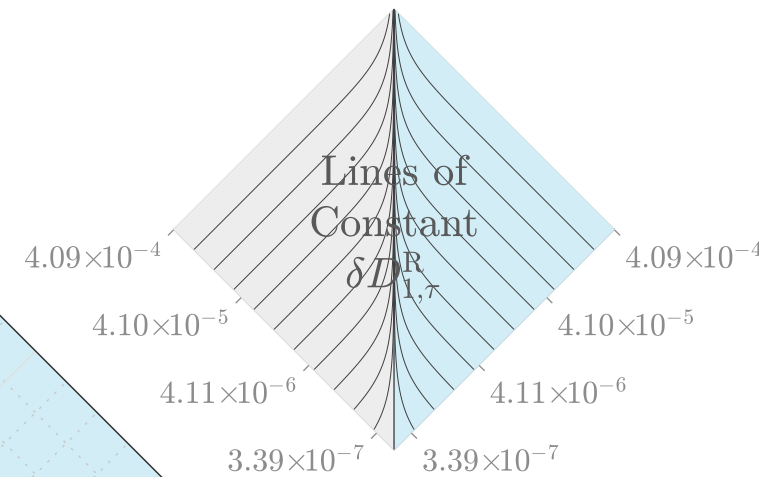
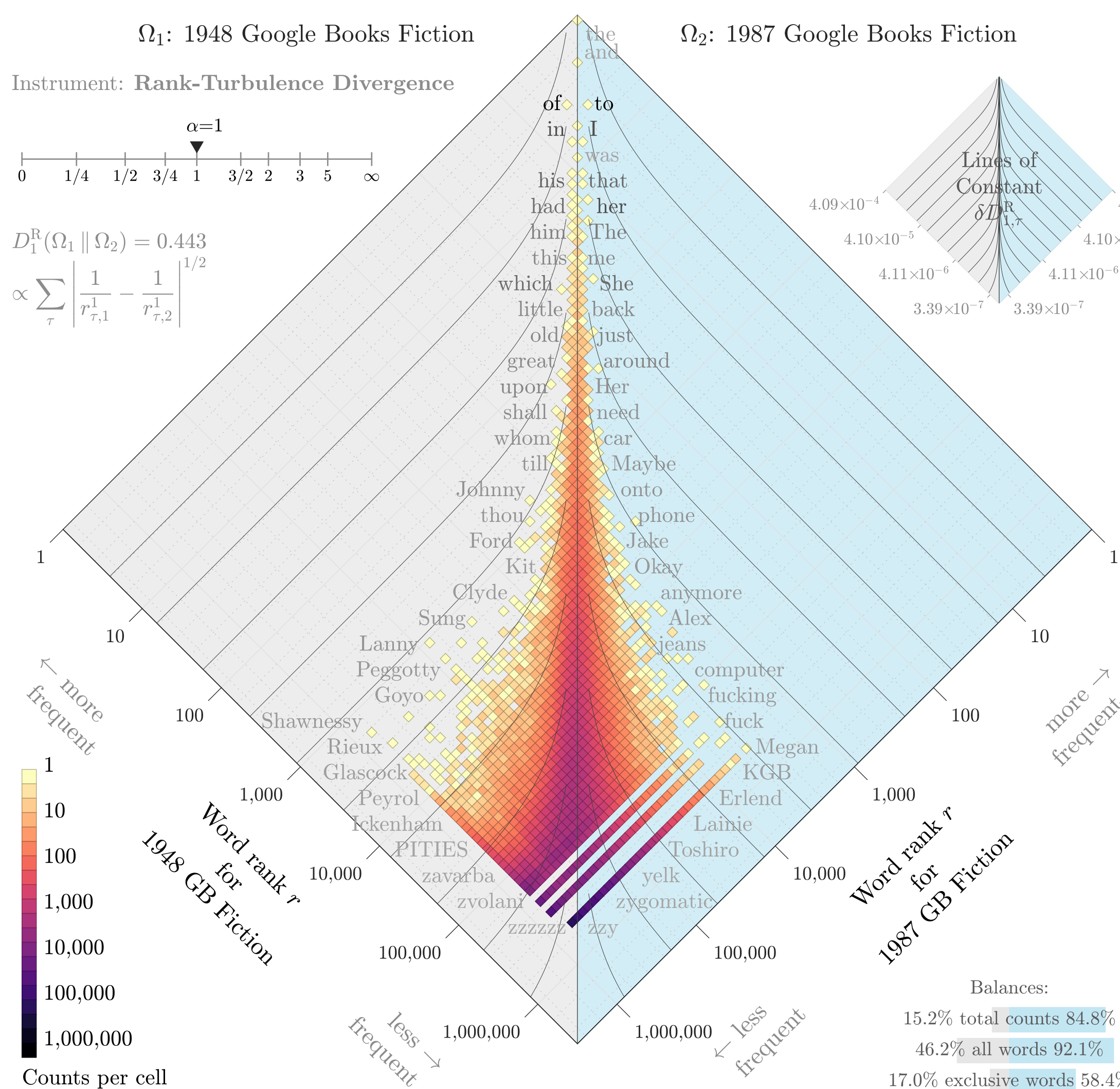
Divergence contribution $\delta D_{1,\tau}^R(\%)$

Instrument: Rank-Turbulence Divergence



$$D_1^R(\Omega_1 \parallel \Omega_2) = 0.443$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

49.4%—50.6%

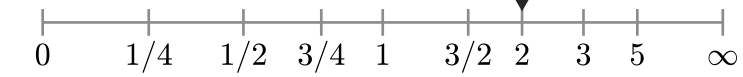
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

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

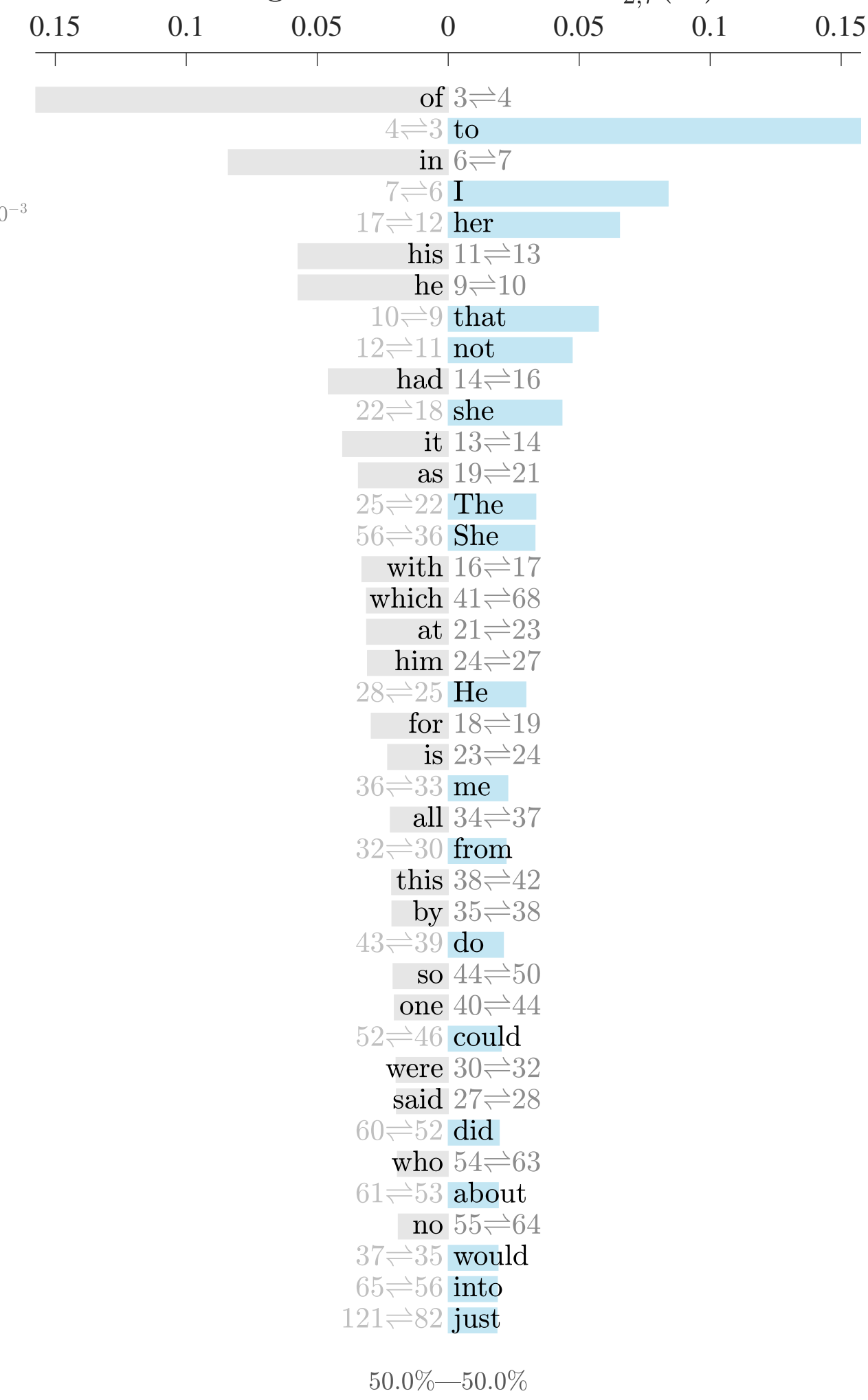
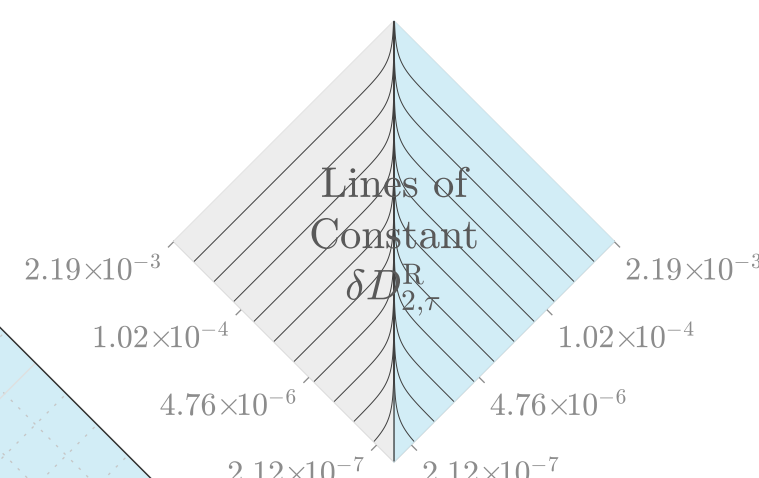
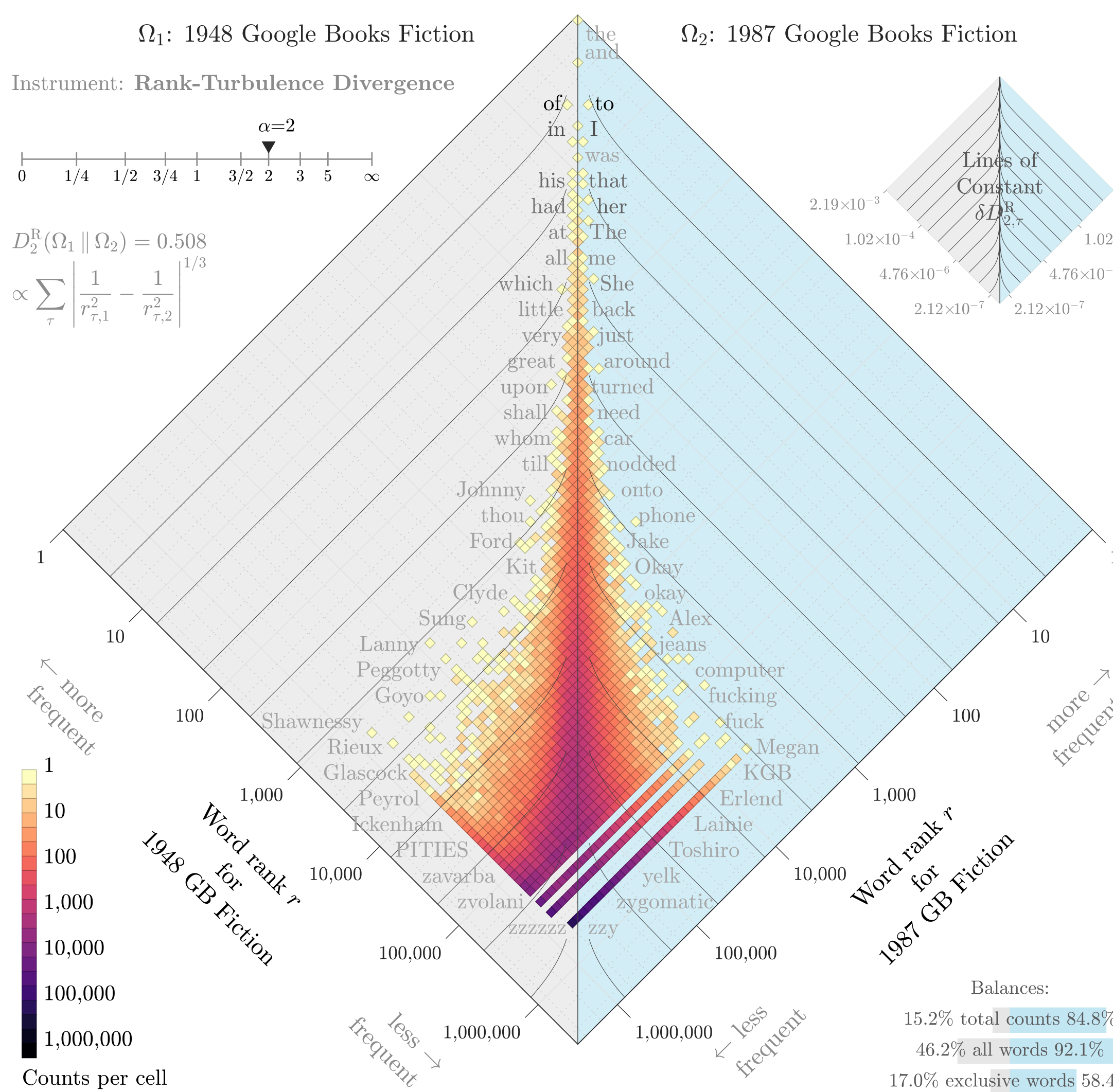
Instrument: Rank-Turbulence Divergence

$\alpha=2$



$$D_2^R(\Omega_1 \parallel \Omega_2) = 0.508$$

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



Balances:
 15.2% total counts 84.8%
 46.2% all words 92.1%
 17.0% exclusive words 58.4%

50.0%—50.0%

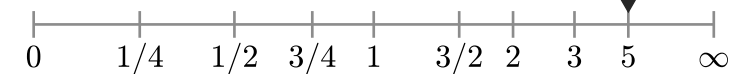
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

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

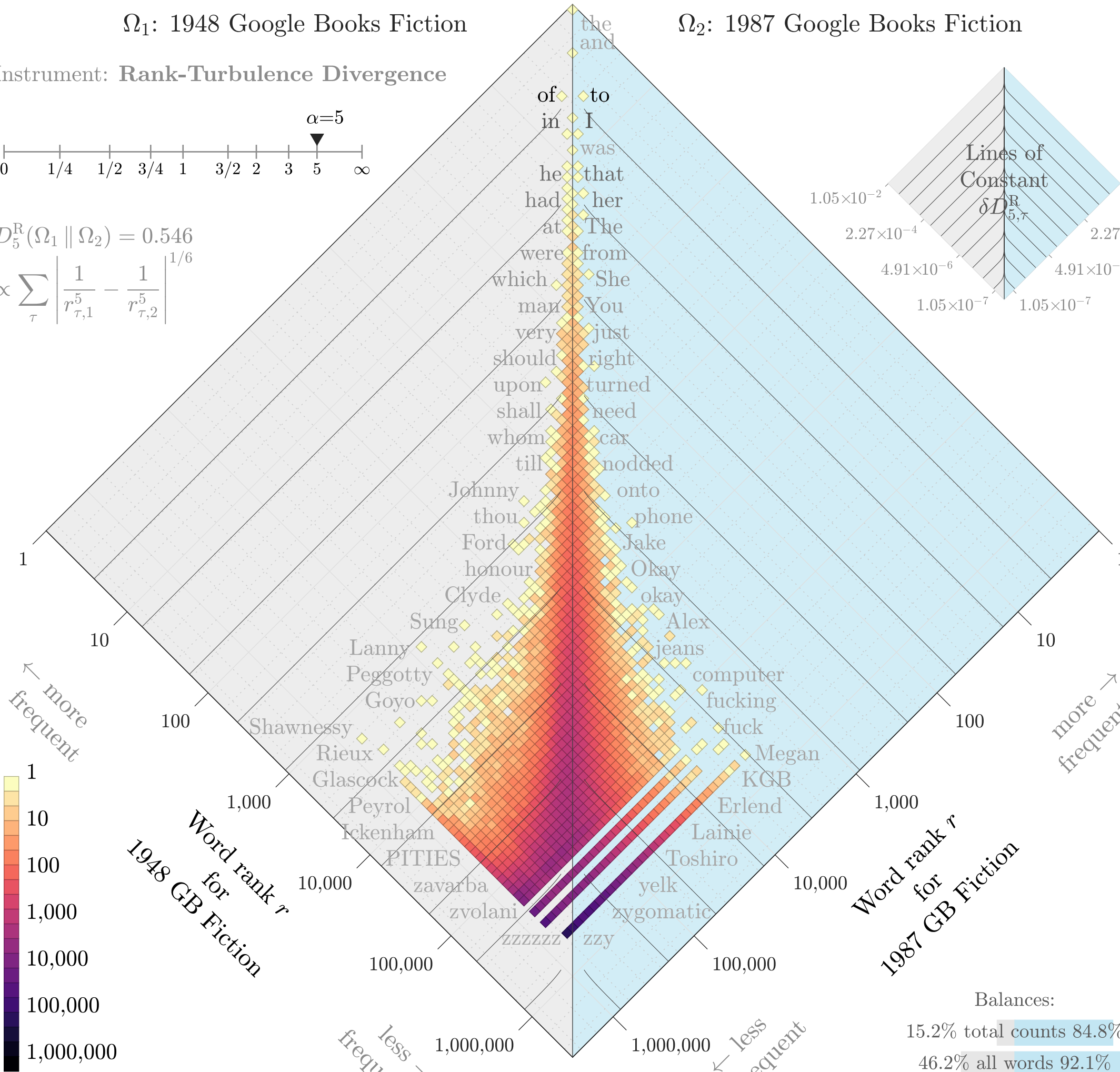
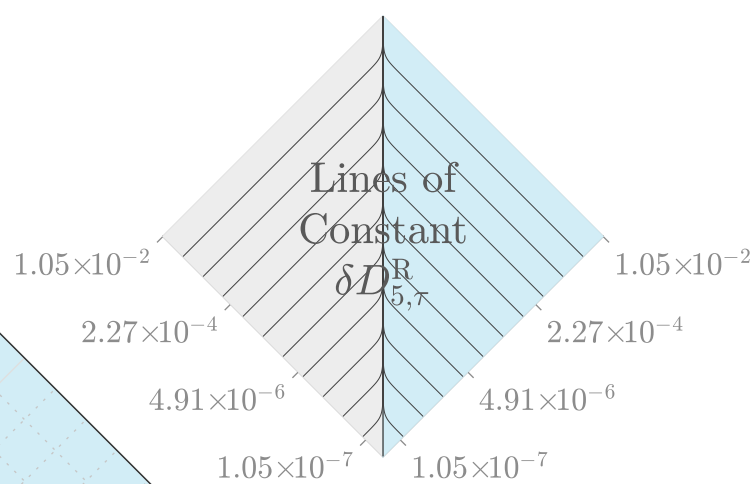
Instrument: Rank-Turbulence Divergence

$\alpha=5$



$$D_5^R(\Omega_1 \parallel \Omega_2) = 0.546$$

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



of	3 \rightleftharpoons 4
4 \rightleftharpoons 3	to
in	6 \rightleftharpoons 7
7 \rightleftharpoons 6	I
he	9 \rightleftharpoons 10
10 \rightleftharpoons 9	that
his	11 \rightleftharpoons 13
17 \rightleftharpoons 12	her
12 \rightleftharpoons 11	not
had	14 \rightleftharpoons 16
it	13 \rightleftharpoons 14
22 \rightleftharpoons 18	she
with	16 \rightleftharpoons 17
as	19 \rightleftharpoons 21
for	18 \rightleftharpoons 19
25 \rightleftharpoons 22	The
at	21 \rightleftharpoons 23
him	24 \rightleftharpoons 27
28 \rightleftharpoons 25	He
is	23 \rightleftharpoons 24
56 \rightleftharpoons 36	She
said	27 \rightleftharpoons 28
32 \rightleftharpoons 30	from
36 \rightleftharpoons 33	me
were	30 \rightleftharpoons 32
which	41 \rightleftharpoons 68
all	34 \rightleftharpoons 37
by	35 \rightleftharpoons 38
this	38 \rightleftharpoons 42
37 \rightleftharpoons 35	would
43 \rightleftharpoons 39	do
one	40 \rightleftharpoons 44
they	33 \rightleftharpoons 34
but	30 \rightleftharpoons 31
so	44 \rightleftharpoons 50
my	39 \rightleftharpoons 41
52 \rightleftharpoons 46	could
42 \rightleftharpoons 40	out
49 \rightleftharpoons 45	It
45 \rightleftharpoons 43	up

Balances:

15.2% total counts 84.8%

46.2% all words 92.1%

17.0% exclusive words 58.4%

50.6%—49.4%

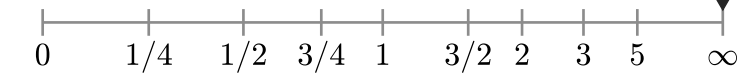
Ω_1 : 1948 Google Books Fiction

Ω_2 : 1987 Google Books Fiction

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

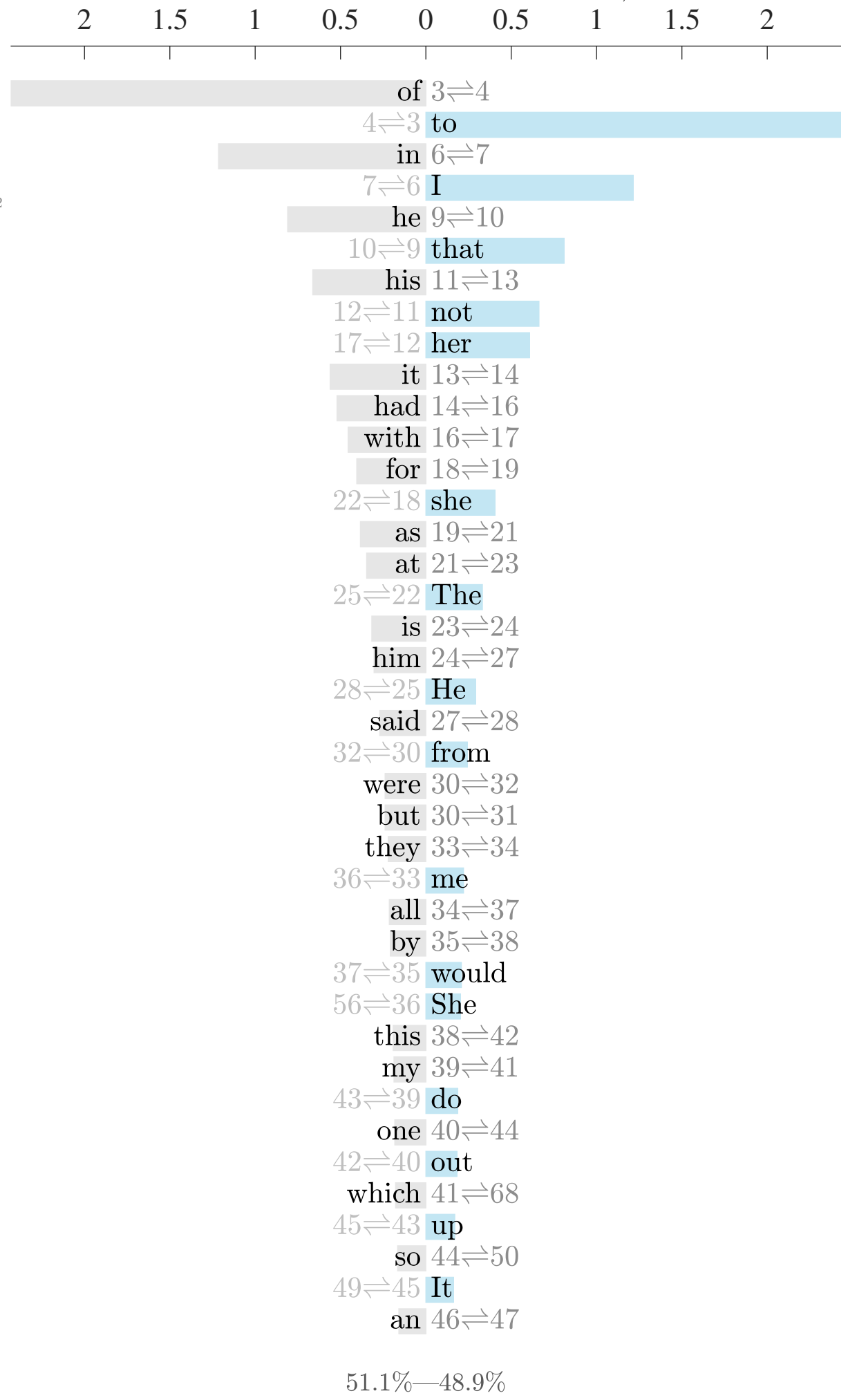
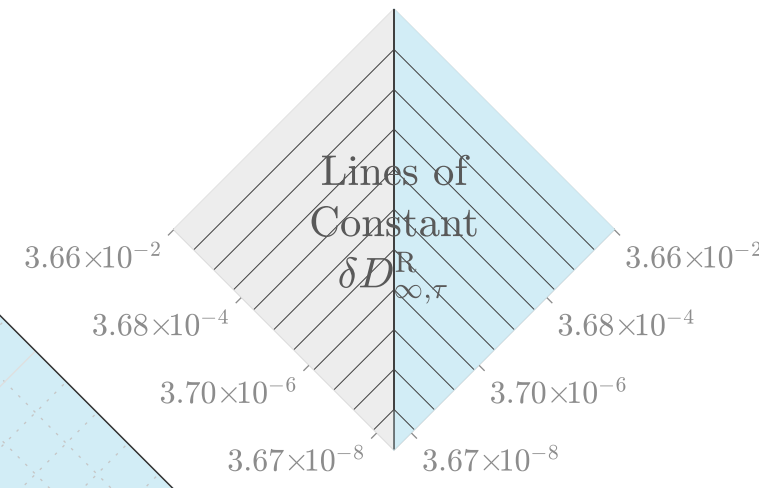
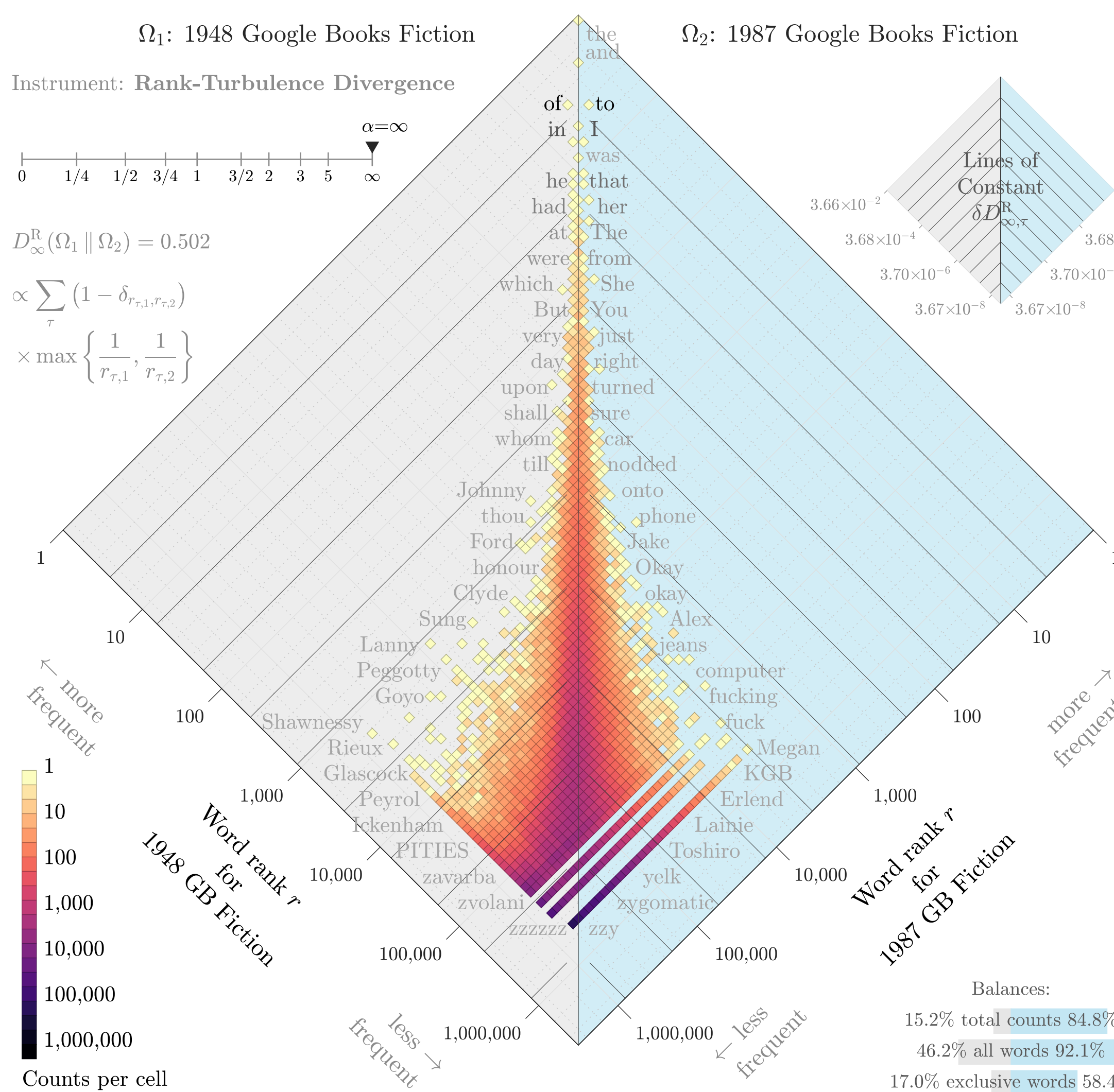
Instrument: Rank-Turbulence Divergence

$\alpha = \infty$



$$D_{\infty}^R(\Omega_1 \parallel \Omega_2) = 0.502$$

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



51.1%—48.9%