Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**

α=0

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$D_0^{\mathrm{R}}(\Omega_1 \,\|\, \Omega_2) = 0.607$

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

Lines of Constant $\delta D_{0,\tau}^{\mathrm{R}}$

3.19×10^{-4} 1.92×10^{-4} 6.39×10^{-5} 6.39×10^{-5} 1.92×10^{-4} 3.19×10^{-4}

Michelle Lisa Jennifer Angela Laura Karen Kelly Susan Sandra Tammy Tracy Debra Michele Rhonda Tonya Tracey Traci Vickie Tammie Ronda Patty Tamatha Yolonda Tarsha Subrina Bronwen Lestine Enzly

Elizabeth Emma Olivia Ava Amelia Abigail Ella Isabella Sofia Mila Camila Emilia Harper Riley Madison Addison Genesis Emery Reese River Braelynn Addyson Montserrat Jakayla Kaelani Cosima Norielle Malayja

1 10 100 1,000 10,000 100,000

← more popular

Popularity rank r for Baby girl names in 1968

less → popular

Popularity rank r for Baby girl names in 2018

more → popular

← less popular

1 10 100 1,000 10,000 100,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D_{0,\tau}^{\mathrm{R}}(\%)$

0.03 0.02 0.01 0 0.01 0.02 0.03

15,477⇌9	Harper ▷	
Lisa	1⇌881.5	
15,477⇌22	Madison ▷	
2,747.5⇌4	Isabella	
15,477⇌23	Luna ▷	
15,477⇌27	Layla ▷	
15,477⇌29	Zoey ▷	
Tammy	8⇌4,034	
15,477⇌35	Addison ▷	
427⇌1	Emma	
7,604.5⇌19	Aria	
15,477⇌47	Brooklyn ▷	
15,477⇌50	Skylar ▷	
15,477⇌53	Everly ▷	
7,604.5⇌28	Riley	
15,477⇌57	Genesis ▷	
529⇌2	Olivia	
15,477⇌59	Kennedy ▷	
743.5⇌3	Ava	
15,477⇌63	Kinsley ▷	
15,477⇌65	Aaliyah ▷	
3,893.5⇌18	Camila	
15,477⇌76	Serenity ▷	
15,477⇌82	Isla ▷	
15,477⇌84	Nevaeh ▷	
2,919⇌16	Avery	
2,394.5⇌14	Mila	
15,477⇌92.5	Emery ▷	
15,477⇌99	Brielle ▷	
Michele	29⇌4,500	
15,477⇌102	Rylee ▷	
15,477⇌106	Mackenzie ▷	
15,477⇌108	Adalynn ▷	
15,477⇌110	Aubree ▷	
Rhonda	42⇌5,888	
Michelle	2⇌264	
15,477⇌118	Ximena ▷	
15,477⇌119	Arya ▷	
◁ Tammie	160⇌20,437	
4,634⇌37	Aubrey	

48.7%—51.3%

Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**

α=1/12

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$$D^{\mathrm{R}}_{1/12}(\Omega_1 \,\|\, \Omega_2) = 0.627$$

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

Lines of Constant $\delta D^{\mathrm{R}}_{1/12,\tau}$

3.62×10^{-4} 1.85×10^{-4} 5.36×10^{-5} 5.56×10^{-5} 1.85×10^{-4} 3.62×10^{-4}

Lisa, Michelle, Jennifer, Angela, Laura, Karen, Kelly, Susan, Sandra, Tammy, Tracy, Debra, Michele, Rhonda, Tonya, Tracey, Traci, Vickie, Tammie, Ronda, Patty, Tamatha, Yolonda, Tarsha, Subrina, Bronwen, Lestine, Enzly

Elizabeth, Emma, Olivia, Ava, Amelia, Abigail, Ella, Isabella, Sofia, Mila, Camila, Emilia, Harper, Riley, Madison, Addison, Genesis, Emery, Reese, River, Braelynn, Addyson, Montserrat, Jakayla, Kaelani, Cosima, Norielle, Malayja

1 10 100 1,000 10,000 100,000

← more popular

Popularity rank r for Baby girl names in 1968

← less popular

Popularity rank r for Baby girl names in 2018 →

more popular →

less popular →

1 10 100 1,000 10,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{1/12,\tau}$(%)

0.04 0.03 0.02 0.01 0 0.01 0.02 0.03 0.04

Lisa	1⇌881.5	
427⇌1	Emma	
15,477⇌9	Harper ▷	
2,747.5⇌4	Isabella	
529⇌2	Olivia	
Tammy	8⇌4,034	
743.5⇌3	Ava	
15,477⇌22	Madison ▷	
15,477⇌23	Luna ▷	
Michelle	2⇌264	
15,477⇌27	Layla ▷	
15,477⇌29	Zoey ▷	
7,604.5⇌19	Aria	
15,477⇌35	Addison ▷	
3,893.5⇌18	Camila	
7,604.5⇌28	Riley	
2,394.5⇌14	Mila	
2,919⇌16	Avery	
15,477⇌47	Brooklyn ▷	
Jennifer	4⇌344	
15,477⇌50	Skylar ▷	
15,477⇌53	Everly ▷	
Susan	10⇌1,081.5	
392.5⇌5	Sophia	
15,477⇌57	Genesis ▷	
15,477⇌59	Kennedy ▷	
Kimberly	3⇌172.5	
15,477⇌63	Kinsley ▷	
Michele	29⇌4,500	
15,477⇌65	Aaliyah ▷	
Melissa	5⇌299	
15,477⇌76	Serenity ▷	
Karen	9⇌636	
Tina	18⇌1,678.5	
Rhonda	42⇌5,888	
2,667.5⇌25	Chloe	
4,634⇌37	Aubrey	
15,477⇌82	Isla ▷	
Dawn	21⇌1,971	
489.5⇌8	Amelia	

48.3%—51.7%

Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**

α=1/6

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$$D^{\mathrm{R}}_{1/6}(\Omega_1 \,\|\, \Omega_2) = 0.645$$

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

Lines of Constant $\delta D^{\mathrm{R}}_{1/6,\tau}$

4.27×10^{-4} 4.27×10^{-4} 1.83×10^{-4} 1.83×10^{-4} 4.93×10^{-5} 4.93×10^{-5}

Lisa, Michelle, Jennifer, Angela, Laura, Karen, Kelly, Susan, Sandra, Tammy, Tracy, Debra, Michele, Rhonda, Tonya, Tracey, Traci, Vickie, Tammie, Ronda, Patty, Tamatha, Yolonda, Tarsha, Subrina, Bronwen, Lestine, Enzly

Elizabeth

Emma, Olivia, Ava, Amelia, Abigail, Ella, Isabella, Sofia, Mila, Camila, Emilia, Harper, Riley, Madison, Addison, Genesis, Emery, Reese, River, Braelynn, Addyson, Montserrat, Jakayla, Kaelani, Cosima, Norielle, Malayja

1 10 100 1,000 10,000 100,000

← more popular

less popular →

Popularity rank r for Baby girl names in 1968

Popularity rank r for Baby girl names in 2018

1 10 100 1,000 10,000 100,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{1/6,\tau}$(%)

0.05 0 0.05

Lisa	1⇌881.5
427⇌1	Emma
529⇌2	Olivia
2,747.5⇌4	Isabella
743.5⇌3	Ava
Michelle	2⇌264
15,477⇌9	Harper ▷
Tammy	8⇌4,034
Jennifer	4⇌344
Kimberly	3⇌172.5
15,477⇌22	Madison ▷
392.5⇌5	Sophia
15,477⇌23	Luna ▷
7,604.5⇌19	Aria
Melissa	5⇌299
15,477⇌27	Layla ▷
2,394.5⇌14	Mila
15,477⇌29	Zoey ▷
Susan	10⇌1,081.5
3,893.5⇌18	Camila
2,919⇌16	Avery
15,477⇌35	Addison ▷
Karen	9⇌636
489.5⇌8	Amelia
7,604.5⇌28	Riley
335⇌7	Mia
Angela	7⇌266
Tina	18⇌1,678.5
15,477⇌47	Brooklyn ▷
592⇌11	Abigail
Michele	29⇌4,500
Christine	14⇌921
15,477⇌50	Skylar ▷
Dawn	21⇌1,971
Kelly	12⇌618
2,667.5⇌25	Chloe
15,477⇌53	Everly ▷
Patricia	15⇌904
Pamela	20⇌1,583
163⇌6	Charlotte

47.9%—52.1%

Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

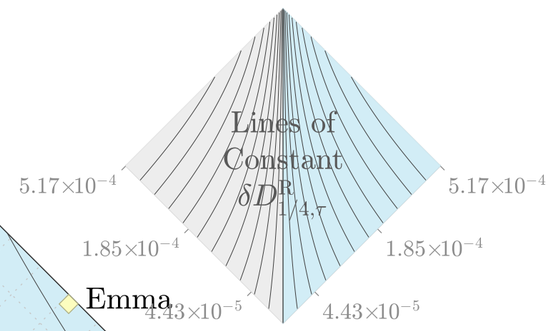
Instrument: **Rank-Turbulence Divergence**

α=1/4

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$$D^{\mathrm{R}}_{1/4}(\Omega_1 \,\|\, \Omega_2) = 0.662$$

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



Michelle
Lisa
Jennifer
Angela
Laura
Karen
Kelly
Susan
Sandra
Tammy
Tracy
Debra
Michele
Rhonda
Tonya
Tracey
Sheri
Vickie
Tammie
Ronda
Patty
Tamatha
Yolonda
Tarsha
Subrina
Bronwen
Lestine
Enzly

Elizabeth
Emma
Olivia
Ava
Amelia
Abigail
Ella
Isabella
Sofia
Mila
Avery
Emilia
Harper
Riley
Madison
Addison
Genesis
Emery
Reese
River
Braelynn
Addyson
Montserrat
Jakayla
Kaelani
Cosima
Norielle
Malayja

1 10 100 1,000 10,000 100,000

← more popular

less → popular

Popularity rank r for Baby girl names in 1968

Popularity rank r for Baby girl names in 2018

1 10 100 1,000 10,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{1/4,\tau}(\%)$

0.06 0.04 0.02 0 0.02 0.04 0.06

Lisa	1⇌881.5	
427⇌1		Emma
529⇌2		Olivia
Michelle	2⇌264	
2,747.5⇌4		Isabella
743.5⇌3		Ava
15,477⇌9		Harper ▷
Kimberly	3⇌172.5	
Jennifer	4⇌344	
Tammy	8⇌4,034	
392.5⇌5		Sophia
Melissa	5⇌299	
Susan	10⇌1,081.5	
489.5⇌8		Amelia
335⇌7		Mia
Karen	9⇌636	
2,394.5⇌14		Mila
15,477⇌22		Madison ▷
7,604.5⇌19		Aria
Angela	7⇌266	
15,477⇌23		Luna ▷
2,919⇌16		Avery
163⇌6		Charlotte
3,893.5⇌18		Camila
15,477⇌27		Layla ▷
592⇌11		Abigail
15,477⇌29		Zoey ▷
Mary	6⇌126	
Kelly	12⇌618	
Christine	14⇌921	
Tina	18⇌1,678.5	
7,604.5⇌28		Riley
Patricia	15⇌904	
15,477⇌35		Addison ▷
1,127.5⇌17		Sofia
Dawn	21⇌1,971	
Laura	11⇌339	
Pamela	20⇌1,583	
Michele	29⇌4,500	
2,667.5⇌25		Chloe

47.7%—52.3%

Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**

α=1/3

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$D^{\mathrm{R}}_{1/3}(\Omega_1 \,\|\, \Omega_2) = 0.679$

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

Lines of Constant $\delta D^{\mathrm{R}}_{1/3,\tau}$

6.33×10^{-4} 1.88×10^{-4} 4.04×10^{-5}

Lisa, Michelle, Jennifer, Angela, Laura, Karen, Kelly, Susan, Sandra, Tammy, Tracy, Cheryl, Michele, Rhonda, Tonya, Tracey, Sheri, Vickie, Tammie, Ronda, Patty, Tamatha, Yolonda, Tarsha, Subrina, Bronwen, Lestine, Enzly

Elizabeth, Emma, Olivia, Ava, Amelia, Abigail, Ella, Isabella, Sofia, Mila, Avery, Emilia, Harper, Riley, Madison, Addison, Genesis, Emery, Reese, River, Braelynn, Addyson, Montserrat, Jakayla, Kaelani, Cosima, Norielle, Malayja

1 10 100 1,000 10,000 100,000

← more popular

less popular →

Popularity rank r for Baby girl names in 1968

Popularity rank r for Baby girl names in 2018

1 10 100 1,000 10,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

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

0.08 0.06 0.04 0.02 0 0.02 0.04 0.06 0.08

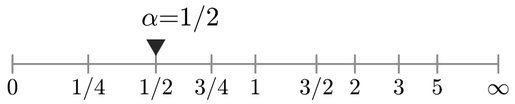
Lisa	1⇌881.5	
427⇌1		Emma
529⇌2		Olivia
Michelle	2⇌264	
743.5⇌3		Ava
2,747.5⇌4		Isabella
Kimberly	3⇌172.5	
Jennifer	4⇌344	
392.5⇌5		Sophia
15,477⇌9		Harper ▷
Tammy	8⇌4,034	
Melissa	5⇌299	
335⇌7		Mia
489.5⇌8		Amelia
Angela	7⇌266	
163⇌6		Charlotte
Susan	10⇌1,081.5	
Karen	9⇌636	
Mary	6⇌126	
2,394.5⇌14		Mila
592⇌11		Abigail
2,919⇌16		Avery
7,604.5⇌19		Aria
Kelly	12⇌618	
3,893.5⇌18		Camila
15,477⇌22		Madison ▷
Christine	14⇌921	
15,477⇌23		Luna ▷
Laura	11⇌339	
Patricia	15⇌904	
Tina	18⇌1,678.5	
15,477⇌27		Layla ▷
1,127.5⇌17		Sofia
192⇌10		Evelyn
15,477⇌29		Zoey ▷
545⇌15		Ella
Dawn	21⇌1,971	
Pamela	20⇌1,583	
7,604.5⇌28		Riley
Julie	16⇌592	

47.5%—52.5%

Ω_1: Baby girl names in 1968

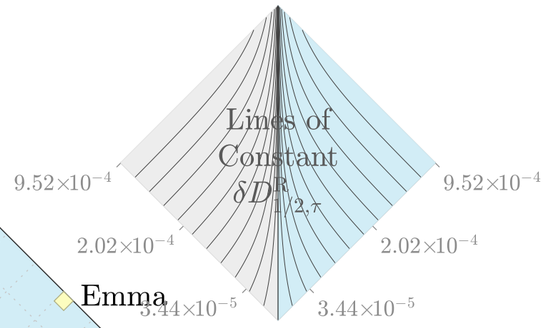
Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**



$$D^{\mathrm{R}}_{1/2}(\Omega_1 \,\|\, \Omega_2) = 0.707$$

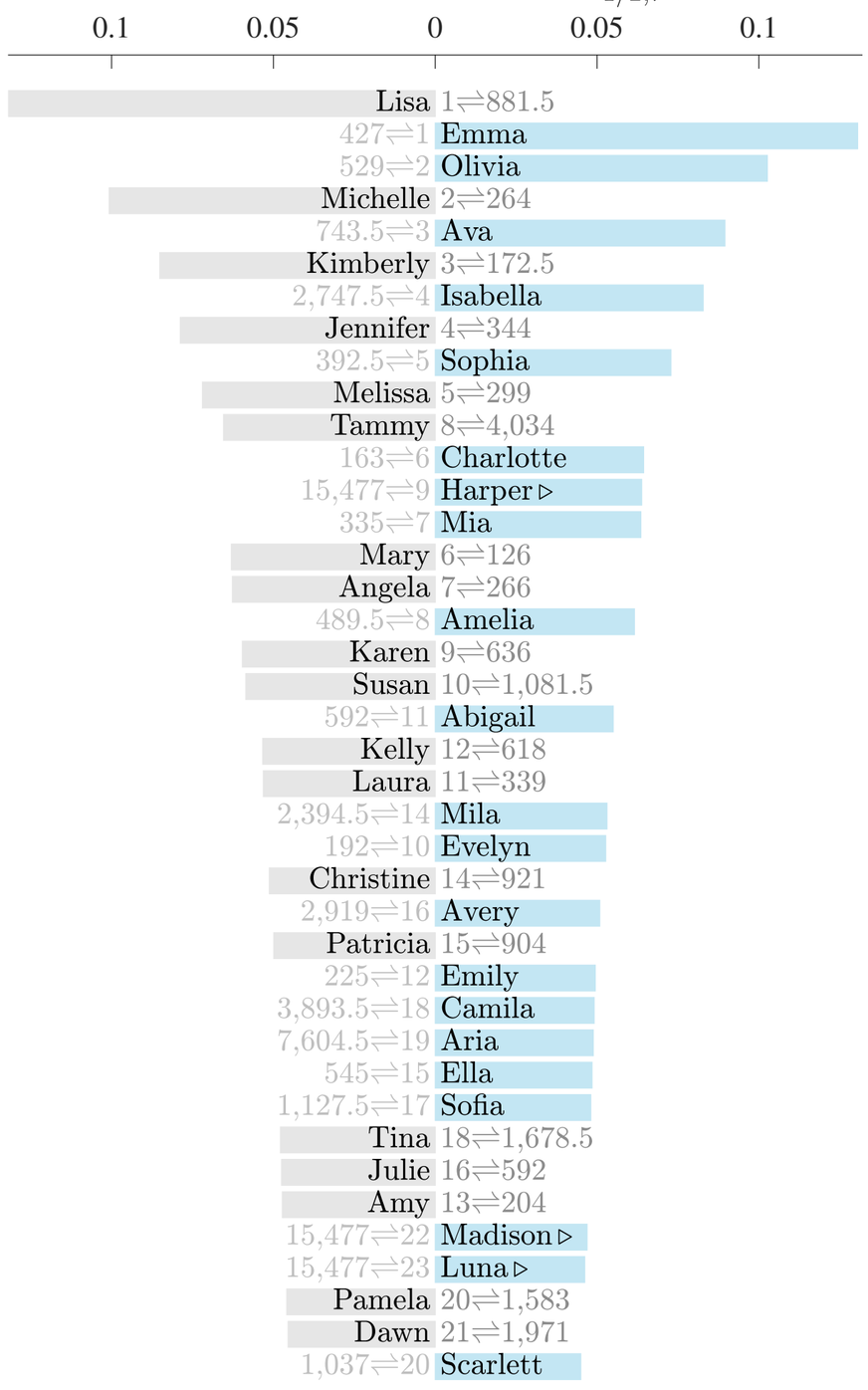
$$\propto \sum_{\tau} \left| \frac{1}{r^{1/2}_{\tau,1}} - \frac{1}{r^{1/2}_{\tau,2}} \right|^{2/3}$$



Balances:

49.2%	total counts	50.8%
36.0%	all names	79.6%
56.7%	exclusive names	80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{1/2,\tau}(\%)$



47.2%—52.8%

Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**

α=2/3

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$$D^{\mathrm{R}}_{2/3}(\Omega_1 \,\|\, \Omega_2) = 0.732$$

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

Lines of Constant $\delta D^{\mathrm{R}}_{2/3,\tau}$

1.39×10^{-3} 1.39×10^{-3}

2.19×10^{-4} 2.19×10^{-4}

3.02×10^{-5} 3.02×10^{-5}

Lisa, Michelle, Jennifer, Angela, Laura, Karen, Kelly, Susan, Sandra, Tammy, Tracy, Cheryl, Michele, Rhonda, Tonya, Tracey, Sheri, Vickie, Tammie, Ronda, Patty, Tamatha, Yolonda, Tarsha, Subrina, Bronwen, Lestine, Enzly

Elizabeth, Emma, Olivia, Ava, Amelia, Abigail, Ella, Isabella, Sofia, Mila, Avery, Emilia, Harper, Riley, Madison, Addison, Genesis, Emery, Reese, River, Braelynn, Addyson, Montserrat, Jakayla, Kaelani, Cosima, Norielle, Malayja

1 10 100 1,000 10,000 100,000

← more popular

less → popular

Popularity rank r for Baby girl names in 1968

Popularity rank r for Baby girl names in 2018

← less popular

more → popular

1 10 100 1,000 10,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{2/3,\tau}$(%)

0.15 0.1 0.05 0 0.05 0.1 0.15

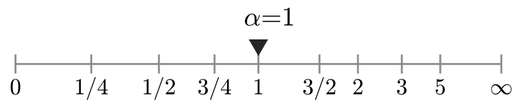
Lisa	1⇌881.5	
427⇌1		Emma
529⇌2		Olivia
Michelle	2⇌264	
743.5⇌3		Ava
Kimberly	3⇌172.5	
2,747.5⇌4		Isabella
Jennifer	4⇌344	
392.5⇌5		Sophia
Melissa	5⇌299	
163⇌6		Charlotte
Mary	6⇌126	
335⇌7		Mia
Angela	7⇌266	
Tammy	8⇌4,034	
489.5⇌8		Amelia
15,477⇌9		Harper ▹
Karen	9⇌636	
Susan	10⇌1,081.5	
592⇌11		Abigail
192⇌10		Evelyn
Laura	11⇌339	
Kelly	12⇌618	
2,394.5⇌14		Mila
225⇌12		Emily
Christine	14⇌921	
Patricia	15⇌904	
2,919⇌16		Avery
Amy	13⇌204	
545⇌15		Ella
Julie	16⇌592	
1,127.5⇌17		Sofia
3,893.5⇌18		Camila
Tina	18⇌1,678.5	
7,604.5⇌19		Aria
Pamela	20⇌1,583	
Cynthia	19⇌694	
1,037⇌20		Scarlett
15,477⇌22		Madison ▹
Dawn	21⇌1,971	

47.1%—52.9%

Ω_1: Baby girl names in 1968

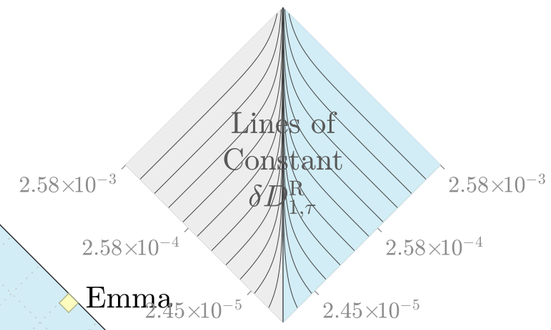
Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**



$$D_1^{\mathrm{R}}(\Omega_1 \,\|\, \Omega_2) = 0.771$$

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



Lisa
Michelle
Jennifer
Angela
Laura
Karen
Kelly
Susan
Sandra
Tammy
Tracy
Cheryl
Michele
Rhonda
Tonya
Tracey
Sheri
Vickie
Tammie
Ronda
Patty
Tamatha
Yolonda
Tarsha
Subrina
Bronwen
Lestine
Enzly

Elizabeth
Emma
Olivia
Ava
Amelia
Abigail
Ella
Isabella
Sofia
Mila
Avery
Emilia
Harper
Riley
Madison
Addison
Genesis
Emery
Reese
River
Braelynn
Addyson
Montserrat
Jakayla
Kaelani
Cosima
Norielle
Malayja

1
10
100
1,000
10,000
100,000

← more popular

less → popular

Popularity rank r for Baby girl names in 1968

Popularity rank r for Baby girl names in 2018

1
10
100
1,000
10,000
100,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{1,\tau}(\%)$

0.3 0.2 0.1 0 0.1 0.2 0.3

Lisa	1⇌881.5	
427⇌1		Emma
529⇌2		Olivia
Michelle	2⇌264	
743.5⇌3		Ava
Kimberly	3⇌172.5	
2,747.5⇌4		Isabella
Jennifer	4⇌344	
392.5⇌5		Sophia
Melissa	5⇌299	
163⇌6		Charlotte
Mary	6⇌126	
335⇌7		Mia
Angela	7⇌266	
Tammy	8⇌4,034	
489.5⇌8		Amelia
15,477⇌9		Harper ▹
Karen	9⇌636	
Susan	10⇌1,081.5	
192⇌10		Evelyn
592⇌11		Abigail
Laura	11⇌339	
Kelly	12⇌618	
225⇌12		Emily
Amy	13⇌204	
2,394.5⇌14		Mila
Christine	14⇌921	
Patricia	15⇌904	
545⇌15		Ella
2,919⇌16		Avery
Julie	16⇌592	
1,127.5⇌17		Sofia
3,893.5⇌18		Camila
Tina	18⇌1,678.5	
7,604.5⇌19		Aria
Cynthia	19⇌694	
Pamela	20⇌1,583	
1,037⇌20		Scarlett
Dawn	21⇌1,971	
15,477⇌22		Madison ▹

47.0%—53.0%

Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**

α=2

0 1/4 1/2 3/4 1 3/2 2 3 5 ∞

$D_2^{\mathrm{R}}(\Omega_1 \,\|\, \Omega_2) = 0.835$

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

Lines of Constant $\delta D_{2,\tau}^{\mathrm{R}}$

7.65×10^{-3} 3.57×10^{-4} 1.64×10^{-5}

Lisa, Michelle, Jennifer, Angela, Laura, Karen, Kelly, Susan, Sandra, Tammy, Tracy, Cheryl, Michele, Rhonda, Tonya, Tracey, Sheri, Vickie, Tammie, Ronda, Patty, Tamatha, Yolonda, Tarsha, Subrina, Bronwen, Lestine, Enzly

Elizabeth, Emma, Olivia, Ava, Amelia, Abigail, Ella, Isabella, Sofia, Mila, Avery, Emilia, Harper, Riley, Madison, Addison, Genesis, Emery, Reese, River, Braelynn, Addyson, Montserrat, Jakayla, Kaelani, Cosima, Norielle, Malayja

1 10 100 1,000 10,000 100,000

← more popular

Popularity rank r for Baby girl names in 1968

less → popular

more → popular

Popularity rank r for Baby girl names in 2018

← less popular

1 10 100 1,000 10,000

Counts per cell

Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

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

0.8 0.6 0.4 0.2 0 0.2 0.4 0.6 0.8

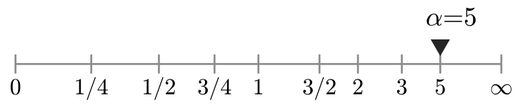
Lisa	1⇌881.5	
427⇌1		Emma
529⇌2		Olivia
Michelle	2⇌264	
743.5⇌3		Ava
Kimberly	3⇌172.5	
2,747.5⇌4		Isabella
Jennifer	4⇌344	
392.5⇌5		Sophia
Melissa	5⇌299	
163⇌6		Charlotte
Mary	6⇌126	
335⇌7		Mia
Angela	7⇌266	
Tammy	8⇌4,034	
489.5⇌8		Amelia
15,477⇌9		Harper ▷
Karen	9⇌636	
Susan	10⇌1,081.5	
192⇌10		Evelyn
592⇌11		Abigail
Laura	11⇌339	
Kelly	12⇌618	
225⇌12		Emily
Amy	13⇌204	
2,394.5⇌14		Mila
Christine	14⇌921	
Patricia	15⇌904	
545⇌15		Ella
2,919⇌16		Avery
Julie	16⇌592	
1,127.5⇌17		Sofia
3,893.5⇌18		Camila
Tina	18⇌1,678.5	
7,604.5⇌19		Aria
Cynthia	19⇌694	
Pamela	20⇌1,583	
1,037⇌20		Scarlett
17⇌13		Elizabeth
Dawn	21⇌1,971	

47.2%—52.8%

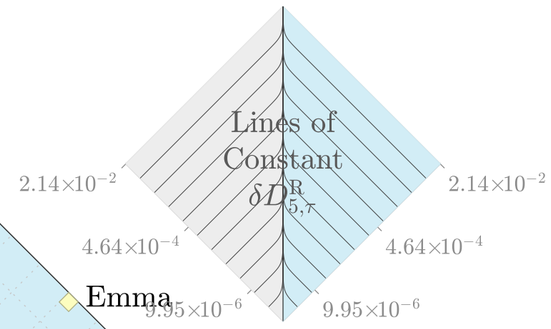
Ω_1: Baby girl names in 1968

Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**



$$D_5^{\mathrm{R}}(\Omega_1 \,\|\, \Omega_2) = 0.889$$
$$\propto \sum_{\tau} \left| \frac{1}{r_{\tau,1}^{5}} - \frac{1}{r_{\tau,2}^{5}} \right|^{1/6}$$



Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

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

2 1.5 1 0.5 0 0.5 1 1.5 2

Lisa	1⇌881.5	
427⇌1		Emma
529⇌2		Olivia
Michelle	2⇌264	
743.5⇌3		Ava
Kimberly	3⇌172.5	
2,747.5⇌4		Isabella
Jennifer	4⇌344	
392.5⇌5		Sophia
Melissa	5⇌299	
163⇌6		Charlotte
Mary	6⇌126	
335⇌7		Mia
Angela	7⇌266	
Tammy	8⇌4,034	
489.5⇌8		Amelia
15,477⇌9		Harper ▷
Karen	9⇌636	
Susan	10⇌1,081.5	
192⇌10		Evelyn
592⇌11		Abigail
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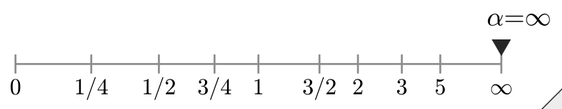
Kelly	12⇌618	
225⇌12		Emily
Amy	13⇌204	
17⇌13		Elizabeth
2,394.5⇌14		Mila
Christine	14⇌921	
Patricia	15⇌904	
545⇌15		Ella
2,919⇌16		Avery
Julie	16⇌592	
1,127.5⇌17		Sofia
3,893.5⇌18		Camila
Tina	18⇌1,678.5	
7,604.5⇌19		Aria
Cynthia	19⇌694	
Pamela	20⇌1,583	
1,037⇌20		Scarlett
Dawn	21⇌1,971	

48.0%—52.0%

Ω_1: Baby girl names in 1968

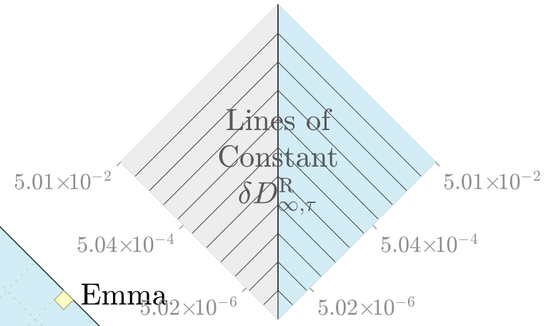
Ω_2: Baby girl names in 2018

Instrument: **Rank-Turbulence Divergence**



$D^{\mathrm{R}}_{\infty}(\Omega_1 \,\|\, \Omega_2) = 0.926$

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



Counts per cell

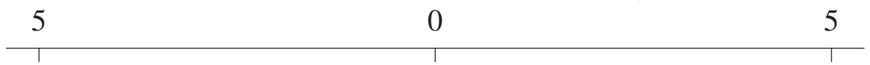
Balances:

49.2% total counts 50.8%

36.0% all names 79.6%

56.7% exclusive names 80.4%

Divergence contribution $\delta D^{\mathrm{R}}_{\infty,\tau}$(%)



Lisa	1⇌881.5	
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Michelle	2⇌264	
529⇌2		Olivia
Kimberly	3⇌172.5	
743.5⇌3		Ava
Jennifer	4⇌344	
2,747.5⇌4		Isabella
Melissa	5⇌299	
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Mary	6⇌126	
163⇌6		Charlotte
Angela	7⇌266	
335⇌7		Mia
Tammy	8⇌4,034	
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2,919⇌16		Avery
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Tina	18⇌1,678.5	
3,893.5⇌18		Camila
Cynthia	19⇌694	
7,604.5⇌19		Aria
Pamela	20⇌1,583	
1,037⇌20		Scarlett
Dawn	21⇌1,971	

48.9%—51.1%