

# Estonian Language Community ca. 1900: Learning from Linked Metadata

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05.12.2019

#DHEstonia 2019

Tallinn

# Some background

PhD project:

Studying standardization of Estonian written language ca. 1900

Collecting and linking text corpora and metadata

Exploring the datasets for extra information

# Estonian language ca. 1900

# A time of transitions

# Learning to write (1850-1900)

20% -> 91% read, X% -> 77% write

## Cultural transition & prestige

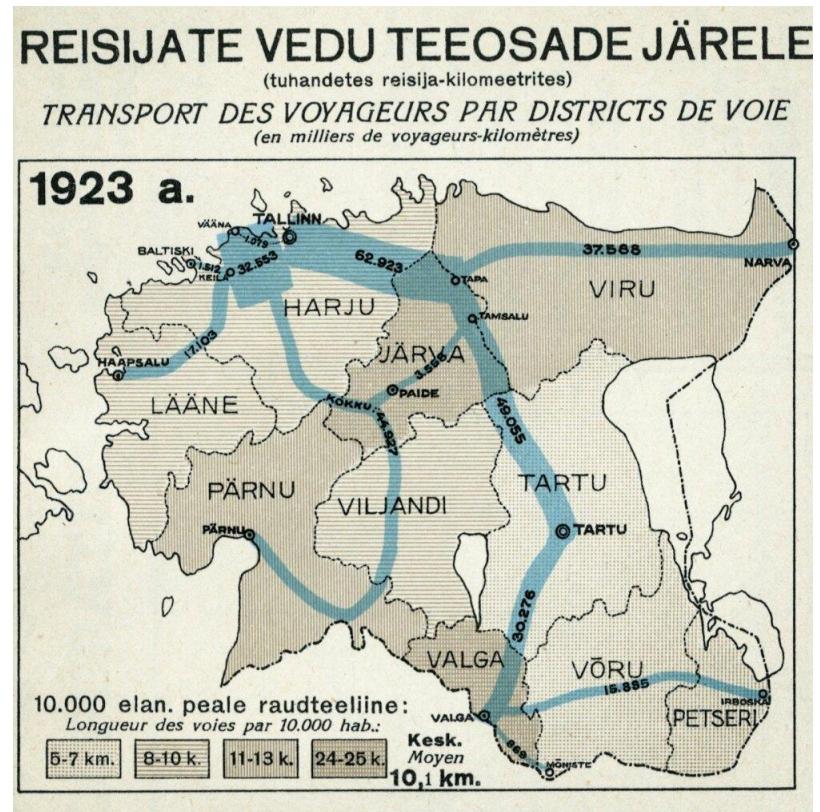
## Becoming a „cultural language“

# Migration & urbanization

Urbanization 6% 1825 -> 19% 1897

# Technological transition

## Railroads 1870, 1876, 1889, 1896



# Language standardization

Potential mechanisms for language standardization

- Prescribed rules

- Changes in attitudes (standard language culture)

- Dialect contacts (spoken, written)

Historical facts are there, but difficult to uncover

- Trends in the data on written works

- Here, just about the metadata

# Data sources

# Estonian National Bibliography

# Metadata+links to texts on print publications connected to Estonian

~196,000 in Estonian

~80,000 in other languages

[data.digar.ee](http://data.digar.ee)



839. Kord Vihalemm elas Ystadis : Arvo Mägi ja Arno Vihalemmi kirjavahetus 1955-1959 / [koostanud ja kommenteerinud Piret Noorhani ; toimetanud Kristi Metste ; Arno Vihalemmi illustreerija]. - Tartu : Eesti Kirjandusmuuseum, 2000 (Tartu : Guttenberg). - 257 lk., 41. ill.; 21 cm. - Sisaldb registri. ISBN 9985-9286-8-7  
 UDK 821.511.113-6 ; 821.511.113 (092) (044); 76.071.1 (474.2) (044)

*Eesti rahvusbibliograafia. Raamatud. 2001, #3,*  
p.40.

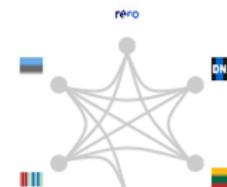
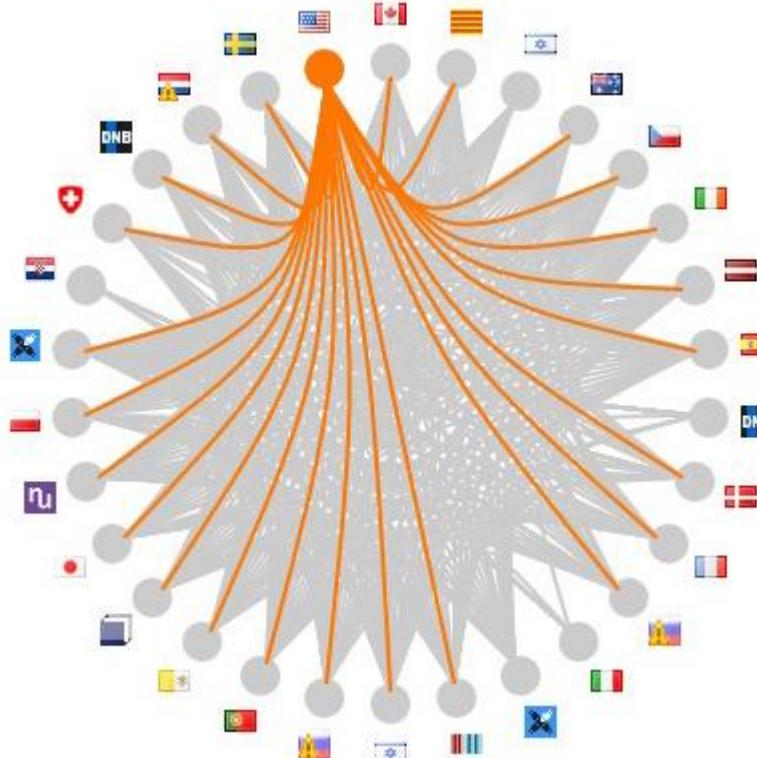
# Historical census data

## Published historical demographic materials and summaries

Bevölkerung excl. actives Militair												Gesamtbevölkerung				
Im Alter von:	ledig		verheirathet		verwitwet		geschieden		Summa			Actives Militair	M.	W.	Zusammen	
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	Zusammen					
91 Jahr . . . . .	—	—	2	1	1	8	12	—	9	15	24	—	9	15	24	
92 . . . . .	—	—	1	1	—	5	11	—	6	12	18	—	6	12	18	
93 . . . . .	—	—	—	3	2	8	12	—	6	14	20	—	6	14	20	
94 . . . . .	—	—	1	3	—	7	10	—	8	18	21	—	8	18	21	
95 . . . . .	—	—	1	4	4	1	15	35	—	20	40	60	—	20	40	60
91-95 Jahr . . . . .	2	10	9	4	38	80	—	—	49	94	143	—	49	94	143	
96 Jahr . . . . .	1	2	1	3	1	10	—	—	3	15	18	—	3	15	18	
97 . . . . .	—	—	—	1	—	5	6	—	6	6	12	—	6	6	12	
98 . . . . .	—	—	—	1	—	6	12	—	7	12	19	—	7	12	19	
99 . . . . .	—	—	2	—	2	10	—	—	4	12	16	—	4	12	16	
100 . . . . .	—	—	1	1	—	3	14	—	4	15	19	—	4	15	19	
96-100 Jahr . . . . .	1	5	6	3	17	52	—	—	24	60	84	—	24	60	84	
absolut arvud																
Linn . . . . .	4251	5204	9455	103	128	231	536	574	1110							
Alev . . . . .	706	1015	1810	13	14	27	138	97	235							
Vallad . . . . .	18273	16152	28425	525	408	928	202	186	388							
Ulduse maak..	18319	21371	39690	641	545	1186	876	857	1733							
				%	%	faktilisest	rahvaarvust									
Linn . . . . .	100%	100%	100%	2,4	2,4	2,6	12,6	11,0	11,7							
Alev . . . . .	100%	100%	100%	1,4	1,4	1,4	17,3	9,6	13,0							
Vallad . . . . .	100%	100%	100%	3,8	2,4	3,8	15	1,2	1,4							
Ulduse maak..	100%	100%	100%	3,5	2,3	3,0	4,9	4,0	4,4							
Administrativ üksuste vördele rahvaarvust % des rahva üldarvust.																
Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	Faktilise elan. arv	Hariiklik elan. arv	
Valga linn . . . . .	23,8	25,7	23,8	29,3	Koorküla vald . . . . .	2,1	2,0	2,1	2,0	Sangaste va						
Valga linn tüh. Puraküla al.	27,6	29,3	27,6	30,3	Kuuküla	0,1	0,1	0,1	0,1	Sooru						
Töra alev . . . . .	4,0	5,0	4,0	5,0	Sellest Puks alevik	1,0	1,0	1,0	1,0	Tanapere	1					
Heime vald . . . . .	3,4	3,2	3,4	3,2	Priipaluu	0,6	0,6	0,6	0,6	Sellest Ala						
Hõõduse vald . . . . .	1,4	1,4	1,4	1,4	Laanemetsa vald . . . . .	3,5	3,4	3,5	3,4	Taheva vald						
Huumuli vald . . . . .	4,0	4,0	4,0	4,0	Luatre vald . . . . .	3,1	3,0	3,1	3,0	Tölliste						
Sellest Soe alevik . . . . .	0,8	0,8	0,8	0,8	Sellest Taigurlinna alevik	0,8	0,8	0,8	0,8	1. Linn	1					
Jõgevese vald . . . . .	2,4	2,3	2,4	2,3	Leebiküla vald . . . . .	1,0	1,0	1,0	1,0	2. Alev	2					
Sellest Kulli alevik . . . . .	0,3	0,2	0,3	0,2	Lõve	2,8	2,2	2,8	2,2	3. Linn ja	3					
Kangürve vald . . . . .	3,5	3,4	3,4	3,4	Paju	4,4	4,6	4,4	4,6	4. Vallaad	4					
Karula vald . . . . .	7,1	6,9	7,1	6,9	Sellest Puraküla alevik	3,5	3,6	3,5	3,6	5. Valdad	5					
Keeni . . . . .	2,1	2,0	2,1	2,0	Pakküla vald . . . . .	2,3	2,2	2,3	2,2	6. Uide	6					

# Linked biographies

Linked and linkable databases with biographical info



Julius Aamisepp (Q1236553)

No description defined

+ In more languages Configure

Language	Label	Description	Also known as
English	Julius Aamisepp	No description defined	
Estonian	Julius Aamisepp	No description defined	Julius Aamisepp
Russian	Аамисепп, Юлиус	No description defined	
Finnish	No label defined	No description defined	

All entered languages

Statements

Instance of  human



VIKIPEDIA  
Vaba entsüklopeedia



# Trends in the data

# Trends in the data

## 1. Migration and language contacts

# Historical census data

**EESTI RIIKLINE STATISTIKA**

1922 a.

**ÜLDRAHVALUGEMISE ANDMED**

VIIKK V

TARTU

Theil I.

**Ergebnisse der livländischen Volkszählung.**

RÉSULT

III. Band:

ARI

**Die Zählung auf dem flachen Lande.**

Bearbeitet und herausgegeben auf Veranstaltung des livländischen Landräthe-Colegiums von

Fr. v. Jung-Stilling und W. Anders.

**Lieferung I.**

**RIGA.**

Stahl'sche Buchdruckerei (Druckerel der „Zeitung für Stadt und Land“), gr. Mönchenstrasse Nr. 11/13.

1884.



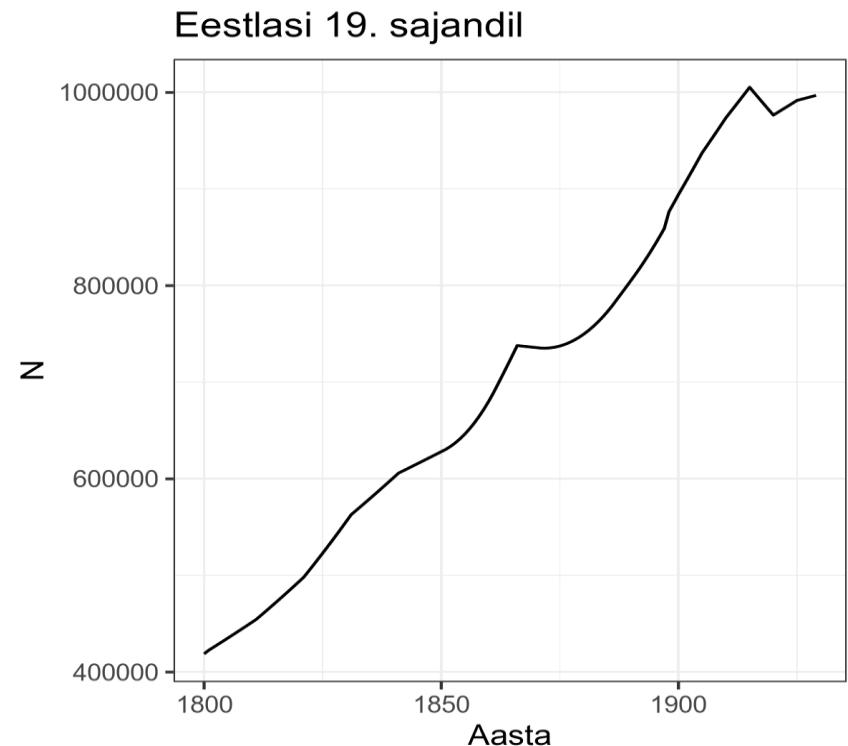
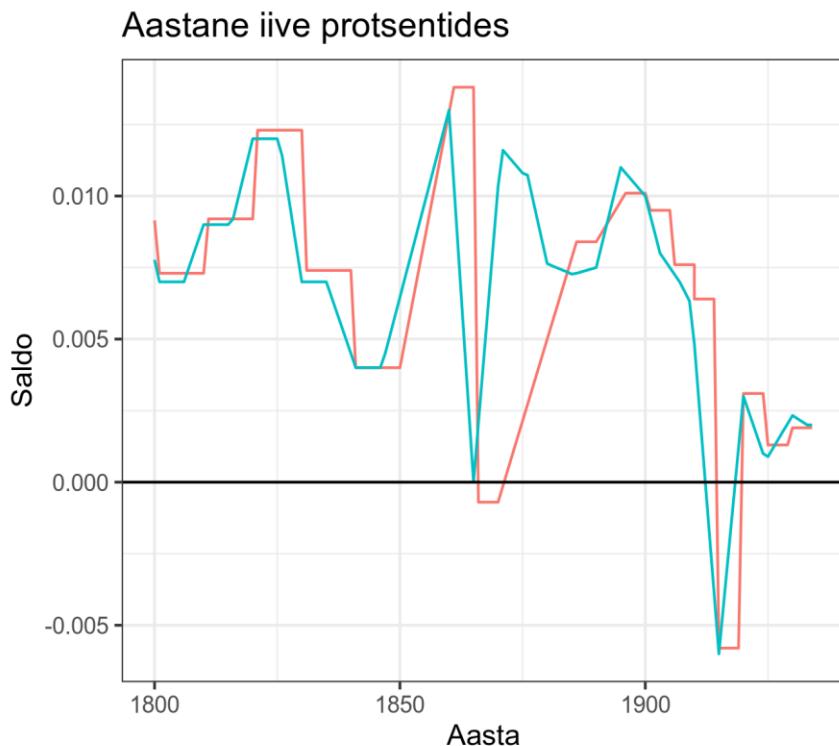
Im Alter von:	Bevölkerung excl. actives Militair												Gesamtbevölkerung		
	ledig		verheirathet		verwitwet		geschieden		Summa						
	M.	W.	M.	W.	M.	W.	M.	W.	M.	W.	Zusammen	M.	W.	Zusammen	
91 Jahr . . . . .	—	2	1	1	8	12	—	—	9	15	24	—	9	15	24
92 . . . . .	—	1	—	—	5	11	—	—	6	12	18	—	6	12	18
93 . . . . .	—	—	3	2	3	12	—	—	6	14	20	—	6	14	20
94 . . . . .	1	3	—	—	7	10	—	—	8	13	21	—	8	13	21
95 . . . . .	1	4	4	1	15	35	—	—	20	40	60	—	20	40	60
91—95 Jahr . . . . .	2	10	9	4	38	80	—	—	49	94	143	—	49	94	143
96 Jahr . . . . .	1	2	1	3	1	10	—	—	3	15	18	—	3	15	18
97 . . . . .	—	—	1	—	5	6	—	—	6	6	12	—	6	6	12
98 . . . . .	—	—	—	1	—	6	12	—	7	12	19	—	7	12	19
99 . . . . .	—	—	2	2	—	2	10	—	4	12	16	—	4	12	16
100 . . . . .	—	1	1	—	3	14	—	—	4	15	19	—	4	15	19
96—100 Jahr . . . . .	1	5	6	3	17	52	—	—	24	60	84	—	24	60	84

Faktiline ja harilik rahvaarv, ajutiselt kohalvibinud ja õrsolnud 1922 s											
Faktiline rahvaarv			Ajutiselt kohalvibinud			Ajutiselt õrsolnud					
Mehed	Naised	Kokku	Mehed	Naised	Kokku	Mehed	Naised	Kokku	Mehed	Naised	Kokku
Linn . . . . .	4251	5204	9455	103	128	231	536	574	1110		
Alev . . . . .	795	1015	1810	13	14	27	138	97	235		
Vallad . . . . .	18273	15152	28425	525	403	928	202	188	388		
Üldse maak . . . . .	18319	21371	39690	641	545	1186	876	857	1783		
% faktiline est rahvaarvust											
Linn . . . . .	100%	100%	100%	2,4	2,4	2,4	12,6	11,0	11,7		
Alev . . . . .	100%	100%	100%	1,6	1,4	1,5	17,9	9,6	15,0		
Vallad . . . . .	100%	100%	190%	3,9	2,6	3,8	1,5	1,2	1,4		
Üldse maak . . . . .	100%	100%	100%	3,5	2,5	3,0	4,9	4,0	4,4		

Administratiiv üksuste võrdlev rahvarikkus % des raha Eildarvust.											
Faktiline elan. arv			Harilik elan. arv			Faktiline elan. arv			Harilik elan. arv		
	Faktiline elan. arv	Harilik elan. arv		Faktiline elan. arv	Harilik elan. arv		Faktiline elan. arv	Harilik elan. arv		Faktiline elan. arv	Harilik elan. arv
Valga linn . . . . .	23,8	25,7	Koorküla vald . . . . .	2,1	2,0	Sangaste vs					
Valga linn th. Puraküla al . . . . .	27,3	29,3	Kuikatsi . . . . .	9,3	8,8	Sooru					
Törvä alev . . . . .	4,0	5,0	Sellest Puksa alevik . . . . .	1,6	1,5	Taagepere					
Heime vald . . . . .	3,4	3,2	Priipaliu . . . . .	0,6	0,6	Sellest Ala					
Hõlde . . . . .	1,4	1,4	Laanemetsa vald . . . . .	3,5	3,4	Taheva vald					
Hummuli vald . . . . .	4,3	4,0	Laatre vald . . . . .	3,1	3,0	Tõpse vald					
Sellest Soo alevik . . . . .	0,8	0,8	Sellest Tsirgulinnu alevik . . . . .	0,6	0,6	1. Linn					
Jõgeveste vald . . . . .	2,4	2,7	Leebiku vald . . . . .	1,6	1,5	2. Alev					
Sellest Kulli alevik . . . . .	0,8	0,8	Lihula . . . . .	2,0	2,0	3. Linna ja					
Kasnäitse vald . . . . .	3,5	3,4	Paju . . . . .	4,4	4,5	4. Vallad					
Karula vald . . . . .	7,1	6,9	Sellest Puraküla alevik . . . . .	3,5	3,6	5. Vallad					
Keeni . . . . .	2,1	2,0	Patküla vald . . . . .	2,3	2,2	6. Üldse					

# Population growth

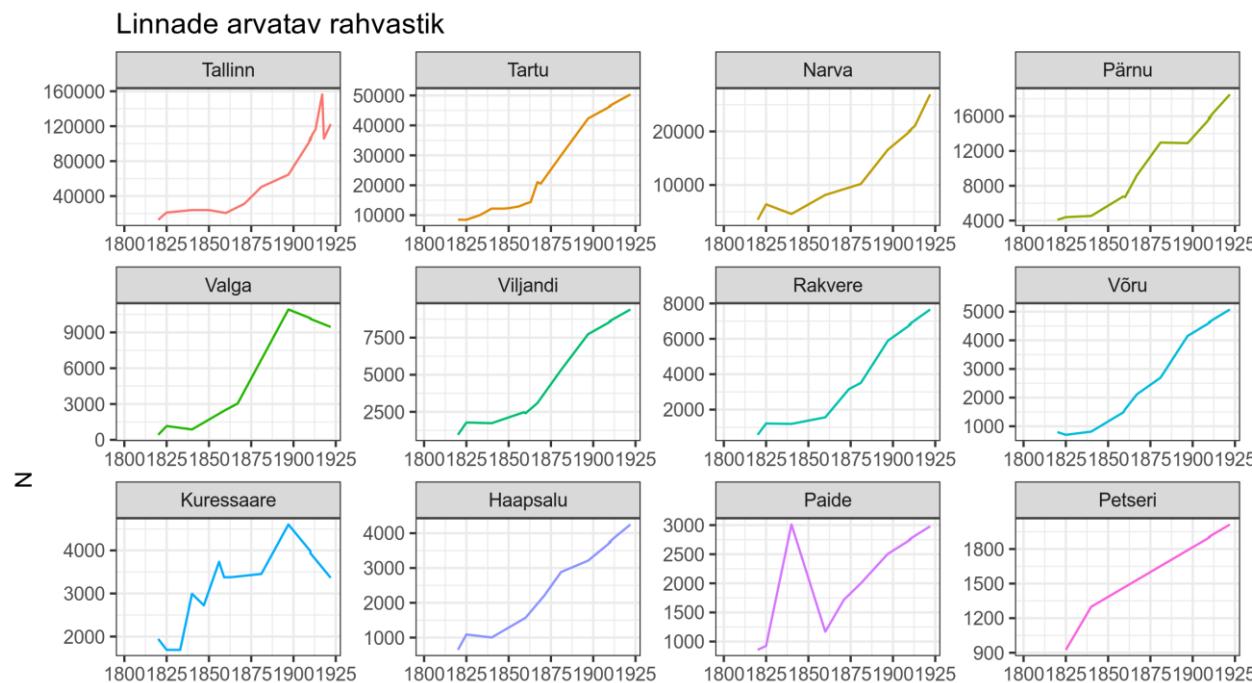
Around 0.5-1% per year over the century



# Population growth in cities

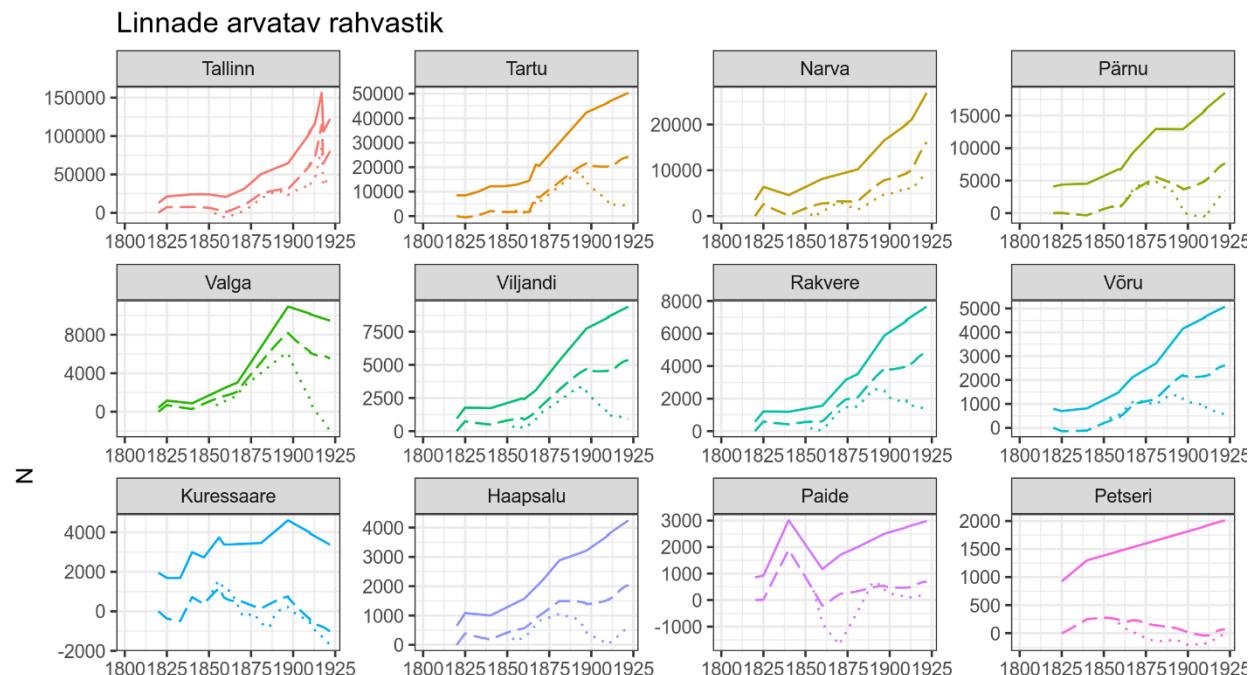
Estonian speaker population grew 2.5x

City population grew 4-6x times



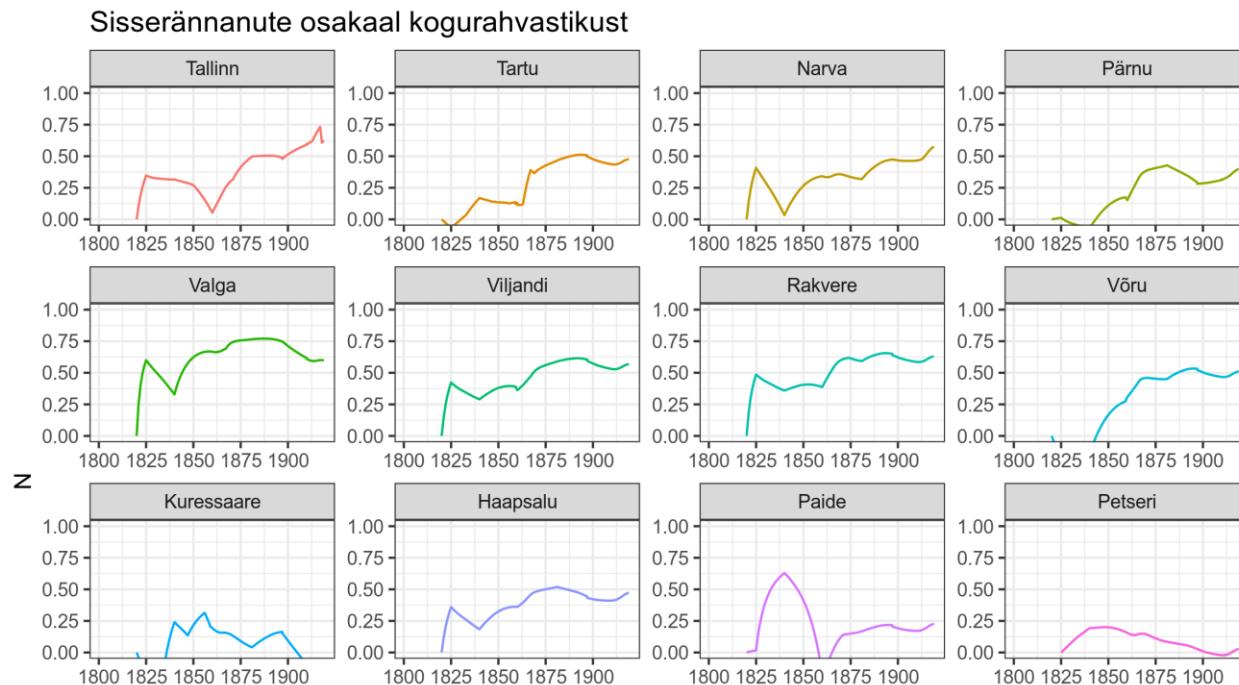
# Residual migration

Residual migration = recorded growth – natural growth  
>50% migrants in most cities by 1900

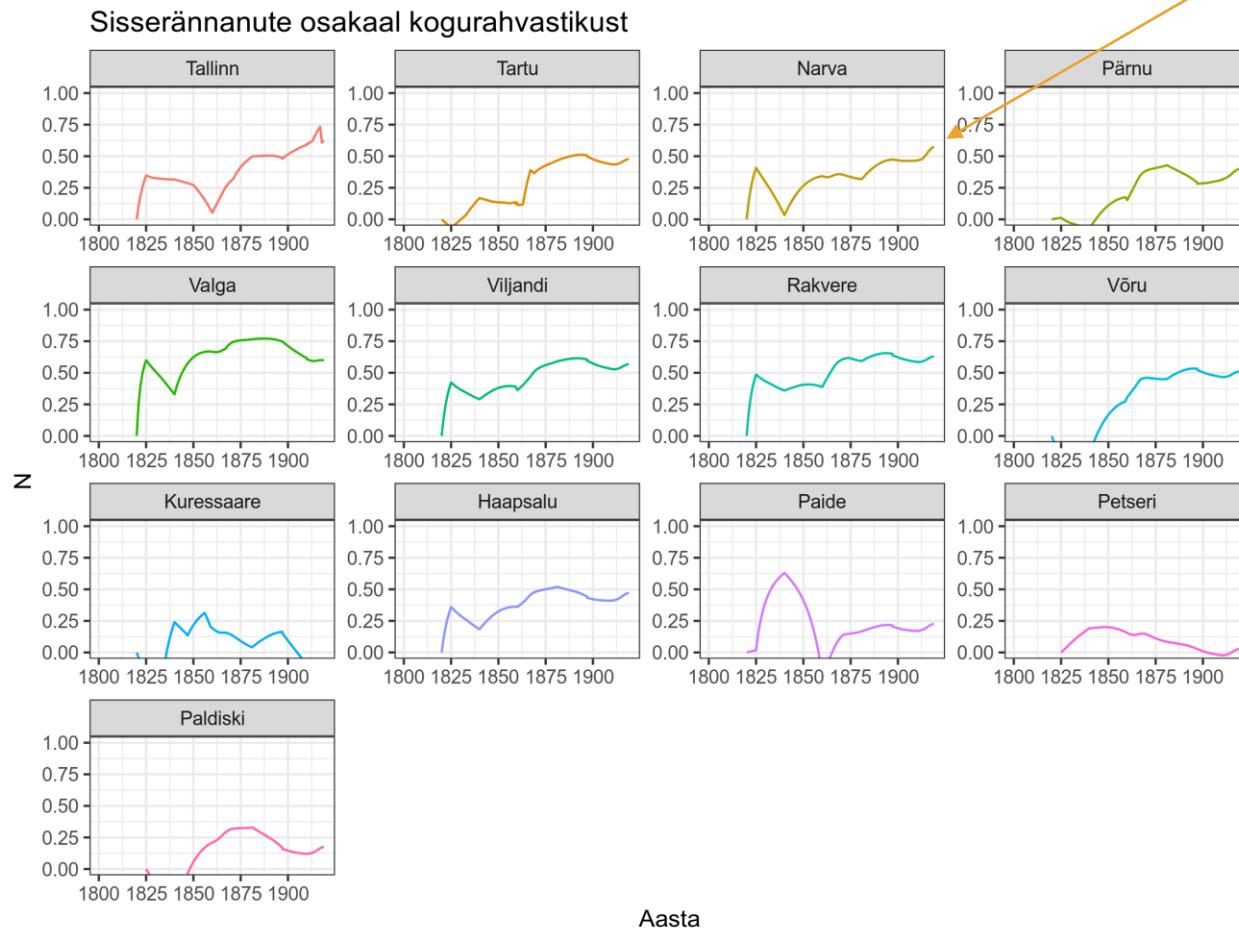


# Migrants in cities

Residual migration = recorded growth – natural growth  
>50% migrants in most cities by 1900



# Migrants in cities



Many have ~50%

# Patterns of migration

Census in 1922 also asked about birthplace

## EESTI RIIKLINNE STATISTIKA

1922 a.

## ÜLDRAHVALUGEMISE ANDMED

VÍHK X

## TARTU ja VALGA MAAKONNAD

RÉSULTATS DU RECENSEMENT DE 1922

TOME X

ARRONDISSEMENTS TARTU ET VALGA

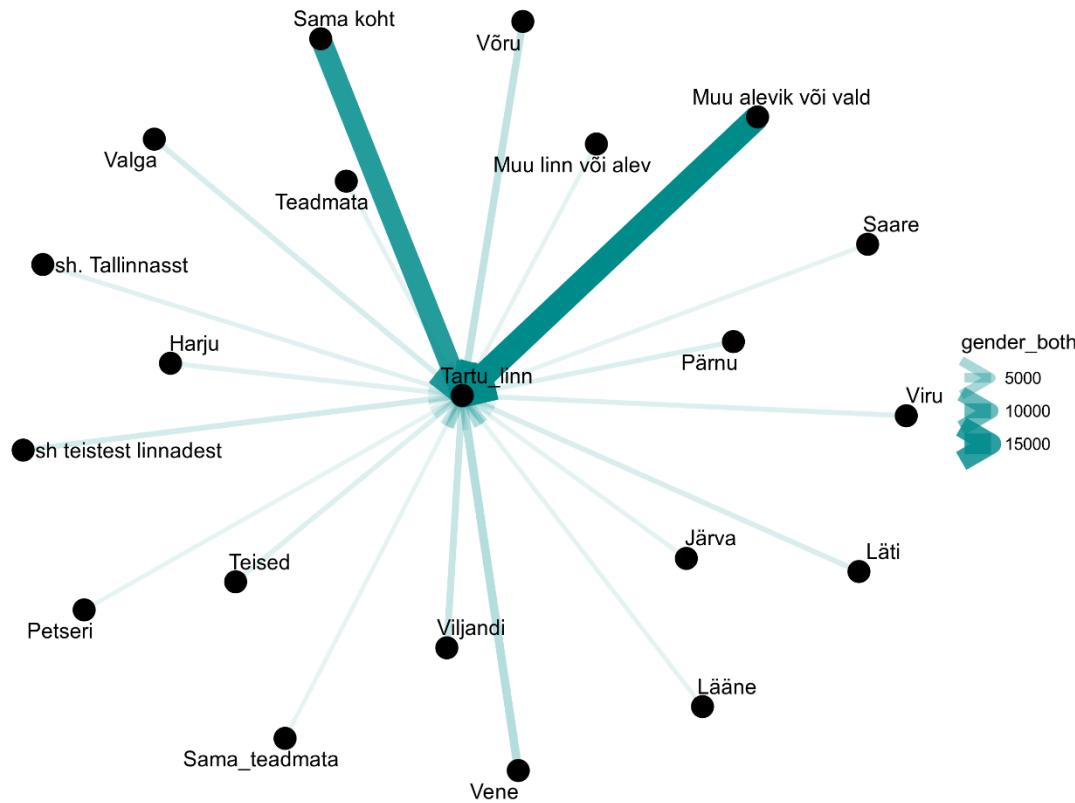
50 TARTU ja VALGA m.kd.

Tab. 8 (järg) —

	Sama maakond — <i>Le même arrondis.</i>												Teised maakonnad —								
	Sama adm. üksus		Linn ehk alev		Alevik ehk vald		Adm. üksus tend.		Viru		Järva		Harju		Läänne		Saare				
	<i>La même unité admin.</i>	<i>ville ou bourg</i>	<i>Ville ou bourg</i>	<i>Commune rurale</i>	<i>L'unité admin. inconnue</i>	<i>Viru</i>	<i>Järva</i>	<i>Harju</i>	<i>Läänne</i>	<i>Saare</i>	M.	N.	M.	N.	M.	N.	M.	N.	M.	N.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
VALLAD— <i>Com. rurales:</i>																					
53. Roela . . . . .	605	658	9	11	241	354	—	—	8	15	4	2	3	4	—	—	—	1	—	—	
54. Ropka . . . . .	239	241	95	116	380	441	3	1	15	11	1	3	10	8	2	3	1	3	1	3	
55. Rõngu . . . . .	490	548	21	22	305	372	—	3	2	1	—	—	1	—	3	—	—	1	—	—	
56. Saadjärve . . . . .	370	386	38	53	378	457	—	1	6	6	2	11	4	8	1	1	1	1	—	—	
57. Saare . . . . .	534	564	3	9	223	305	3	—	4	7	2	1	4	3	3	1	1	—	—	—	
58. Sootaga . . . . .	435	442	53	51	262	327	—	—	8	3	—	1	4	2	—	—	—	1	—	—	
59. Tammistu . . . . .	179	175	19	21	222	251	—	—	—	2	—	—	—	—	—	—	—	—	—	—	
60. Tühtvere . . . . .	380	386	55	69	318	408	2	2	4	8	2	2	3	—	—	4	—	1	—	1	
61. Uderma . . . . .	222	186	44	53	365	438	2	—	6	10	3	5	12	6	1	1	2	2	2	1	
Sellest Elva al. osu	103	86	34	42	22	254	2	—	6	9	2	4	11	6	1	—	—	—	—	—	—
62. Ülija . . . . .	293	289	19	26	190	265	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—
63. Vaimastvere . . . . .	422	413	19	14	154	187	2	3	60	70	29	34	6	7	—	—	1	2	—	—	—
64. Valguta . . . . .	416	434	14	15	175	261	—	—	—	1	2	2	4	1	—	—	—	—	—	—	—
65. Vara . . . . .	344	355	26	21	240	292	1	—	2	1	1	3	2	—	—	—	—	—	—	—	—
66. Vesnéri . . . . .	190	148	20	25	197	267	—	—	1	2	—	—	1	1	1	1	1	2	—	—	2
67. Vorbusé . . . . .	42	59	13	15	81	78	—	—	1	3	—	1	—	—	—	—	—	—	—	—	—
68. Votikvere (Torma)	1150	1151	29	35	391	511	1	6	33	21	2	4	9	9	—	1	—	4	—	—	—
Sellest Lullikatku alev.	89	89	—	—	26	38	—	—	4	1	—	—	—	—	—	—	—	—	—	—	—
ÜLDARVUD — <i>Totaux:</i>																					
1. Linn — Ville . . . . .	7104	8359	50	109	7703	10735	26	40	331	530	117	173	317	381	82	98	106	115			
2. Alevid — Bourgs . . . . .	1807	1995	67	77	856	1222	2	4	48	73	17	19	28	33	2	5	3	2			
3. Linn ja al.—Vet Bourgs	8911	10354	117	186	8559	11957	28	44	379	603	134	192	345	414	84	103	109	117			
4. Vall. (ühes al.) — Com.	33156	34022	1490	1843	14852	19610	85	74	462	623	134	178	175	187	43	48	49	57			
5. Vall. ja al.—B. et com.	34963	36017	1557	1920	15708	20832	87	78	510	696	151	197	203	220	45	53	52	59			
6. Üldse m.kd.—Gr. total	42067	44376	1607	2029	23411	31567	113	118	841	1226	268	370	520	601	127	151	158	174			

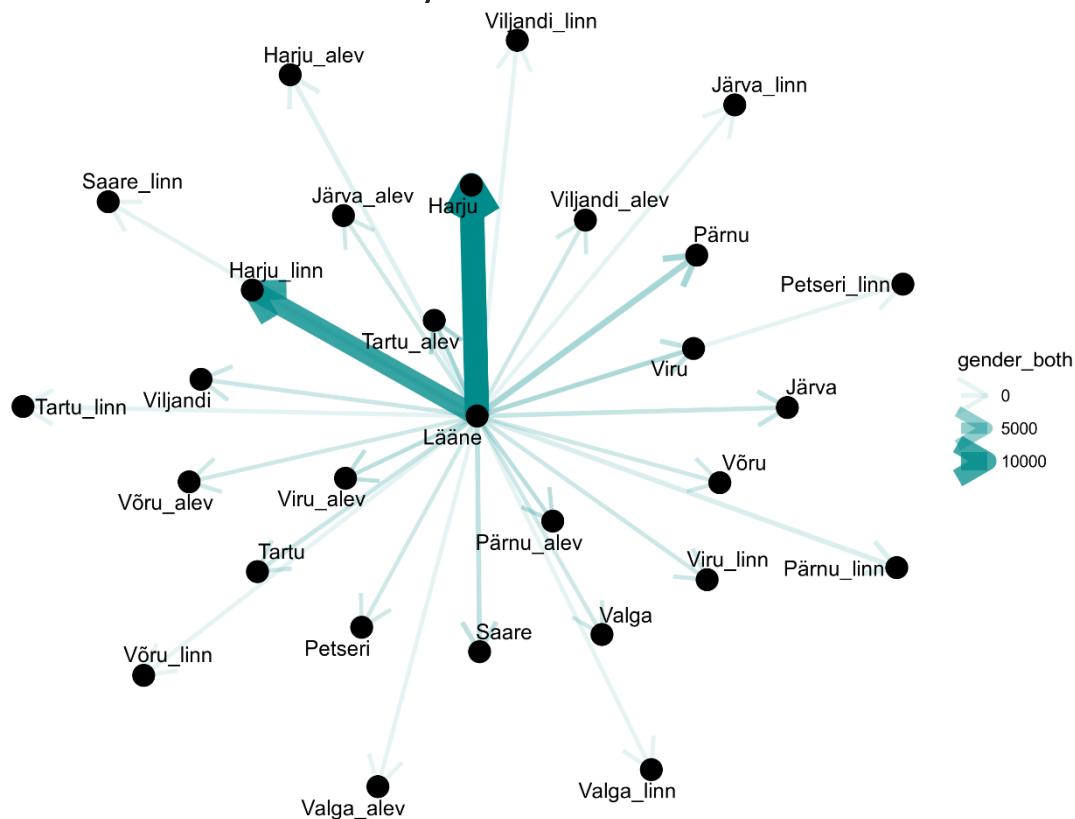
# Migration patterns

Places of origin for Tartu inhabitants in 1922.



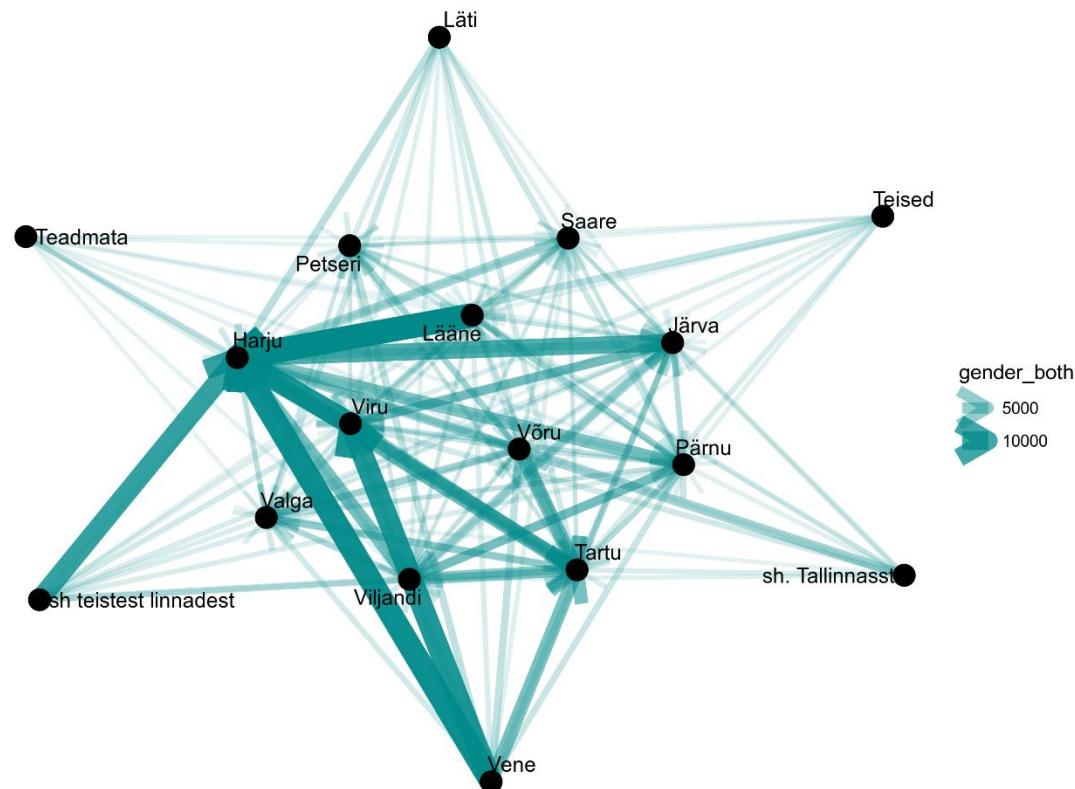
# Migration patterns

Migrants out of Läänemaa by 1922



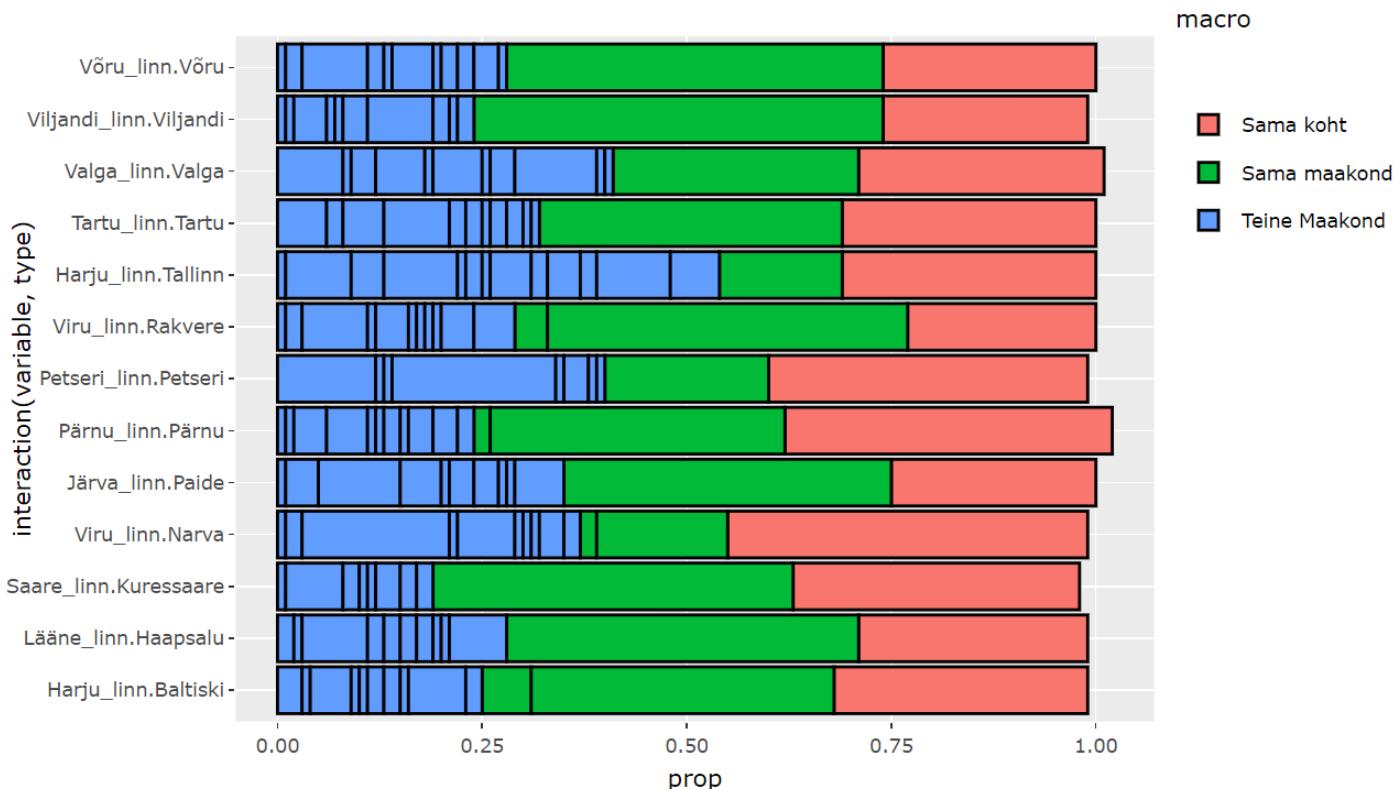
# Migration patterns

Migration between counties by 1922.



# Migration in cities

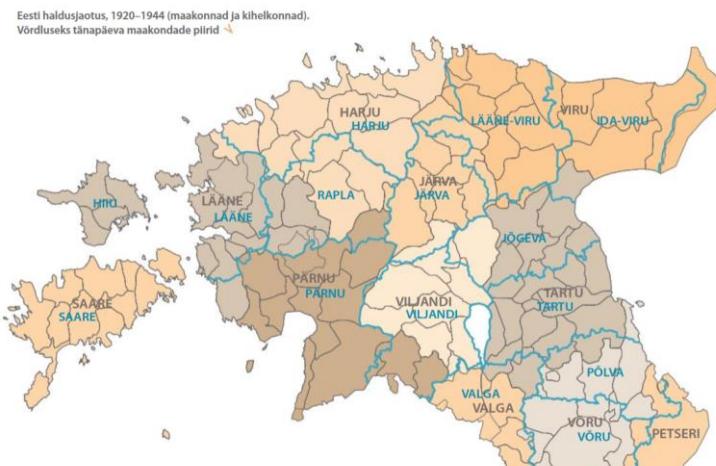
Migration origins (red=same place, green=same county, blue=other county)



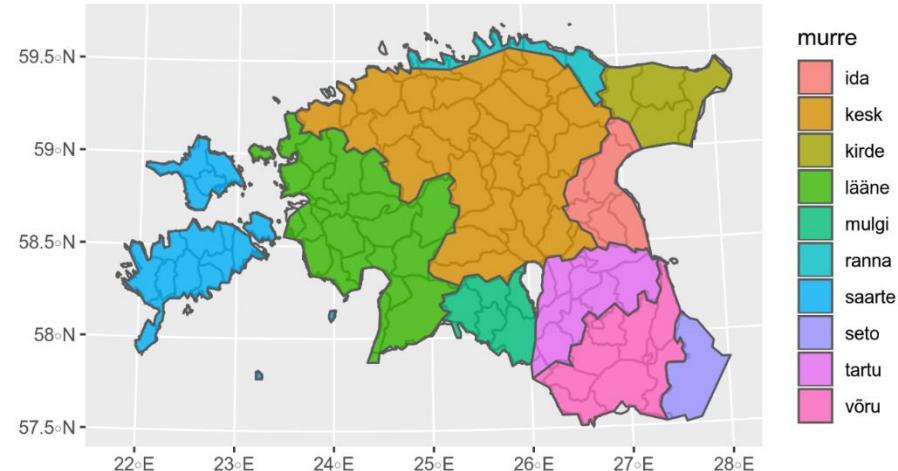
# Migration and dialects

Admin areas don't match dialect areas exactly

Combine the maps to get proportions of people



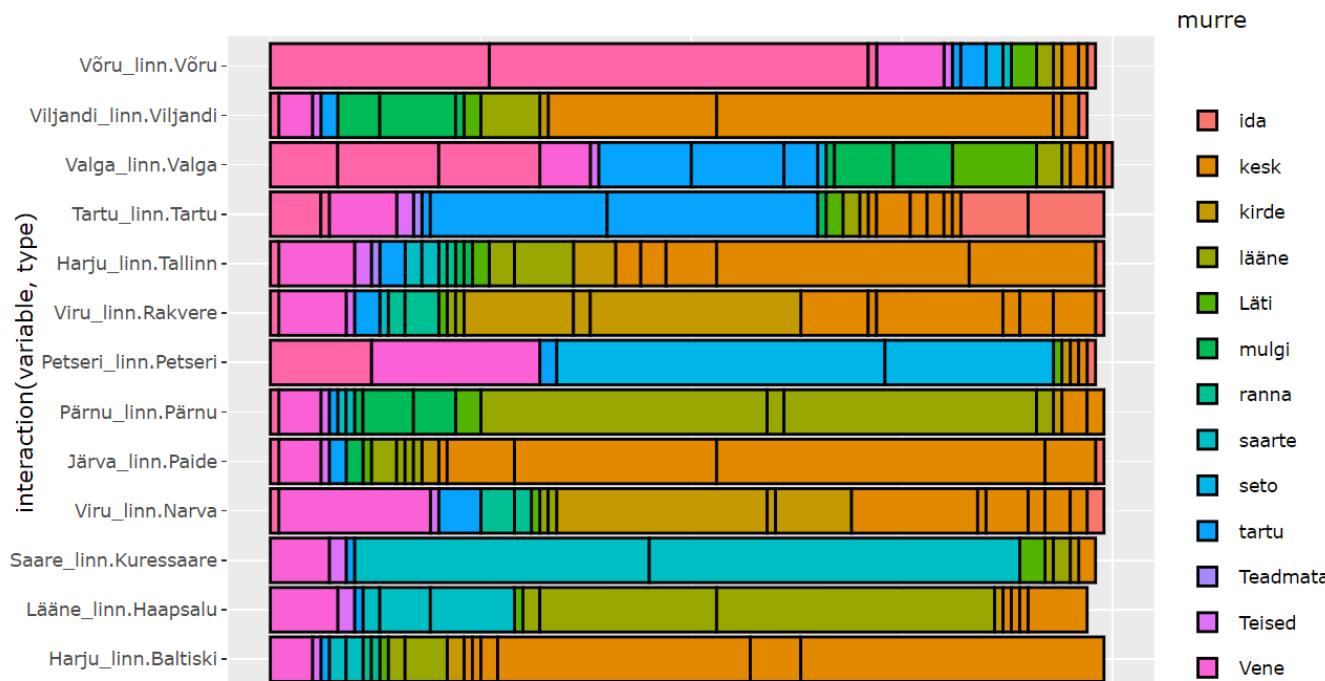
68 Kümm Estonia rahvaloendust



# Migration and dialects

Despite large urbanization and railroads, immigrants mostly come from same dialect area

Few cities between dialect areas (Rakvere, Valga) and industrializing cities (Narva) get migrants from neighbor dialects



# Trends in the data

1. Migration and language contacts
2. Written language community

# The growing written language community

Written language contacts

Number of works?

Number of authors?

Dialects mixture?

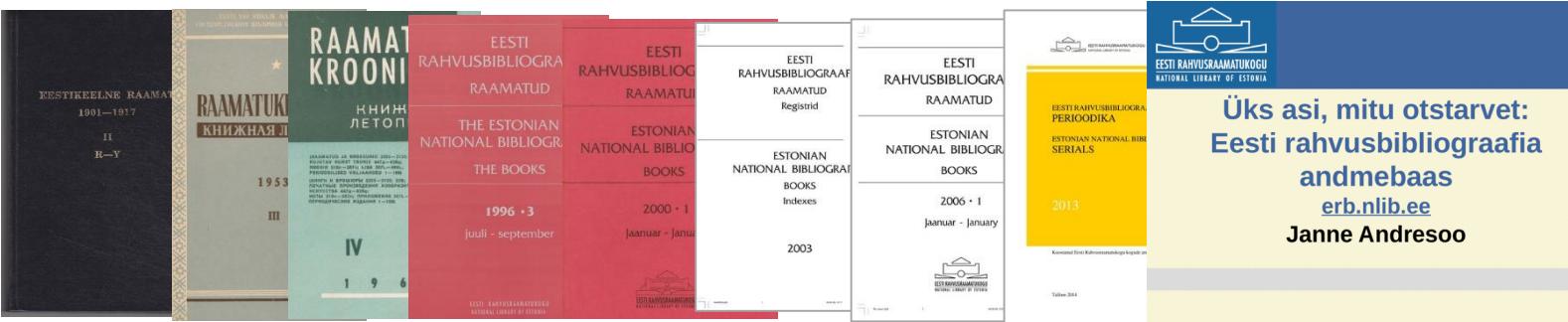
# Estonian National Bibliography

RecordNumber	c	aeg	koht	kirjastus	title
115097	\$c[1894]	1894	Narva	R. PÜuder,	Tumm armastaja :
115134	\$c[1894]	1894	Paide	A. Seidelberg,	Saardami tõtõimees :
115406	\$c1894	1894	Viljandi	Viljandi Eesti Karskuse Selts "Vabadus",	Kolm esimest elu-aastat :
115679	\$c1894	1894	Tallinn	A. Busch,	Wileteistkõrume aastane kapten /
115739	\$c1894	1894	Tallinn	A. Brandt,	Willem ja Luise ehk Čunnetu ja Čunnelik perekon
115891	\$c1894]	1894	Tallinn	s.n.,	Eeskirjad Čilemaltauraha ja walla kohtute Talli
116002	\$c1894	1894	Jurjev	H. Laakmann,	Weike mleepajahutaja :
116089	\$c[tsns. 1894]	1894	Riia	Paltimaa Čigeusu vennaste-selts,	Čepetus Čuigest usust :

<mx:subfield code="a">Stend<br/><mx:subfield code="d">1783-1894</mx:subfield><mx:subfield code="0">(BLBN)</mx:subfield>

<mx:subfield code="a">ا. بوسچ<br/><mx:subfield code="d">1783-1894</mx:subfield><mx:subfield code="0">(ISNI)</mx:subfield>

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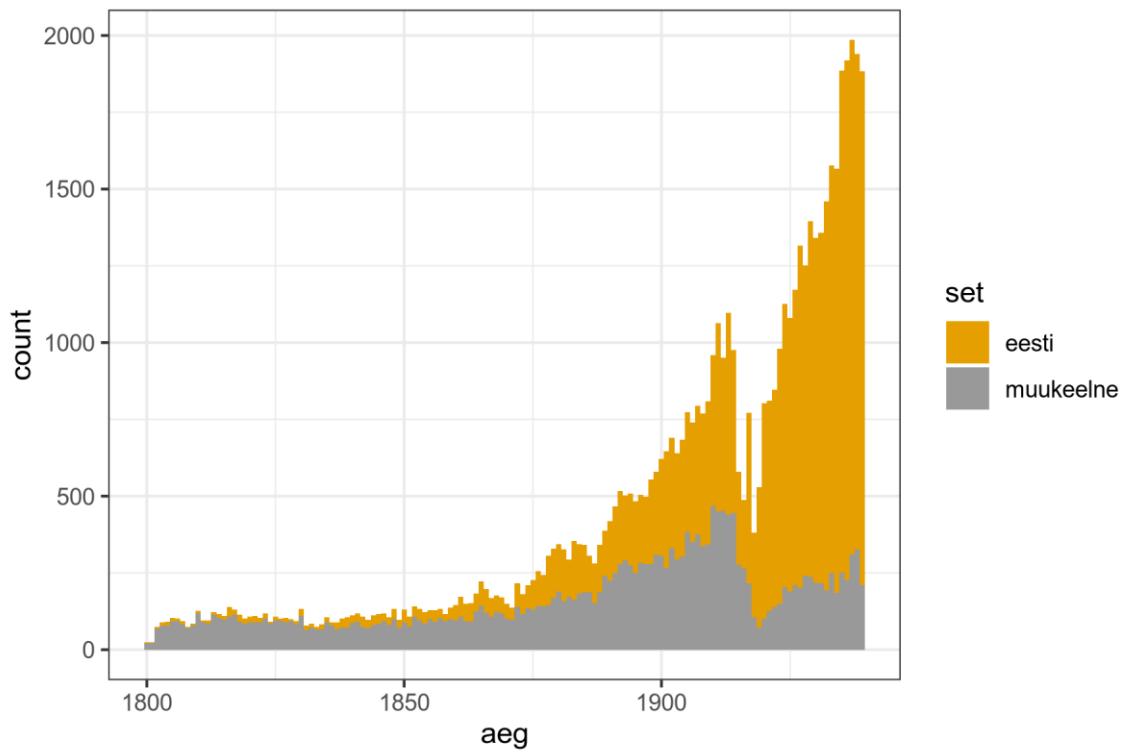


**Üks asi, mitu otstarvet:**  
**Eesti rahvusbibliograafia**  
**andmebaas**  
[erb.nlib.ee](http://erb.nlib.ee)  
**Janne Andresoo**

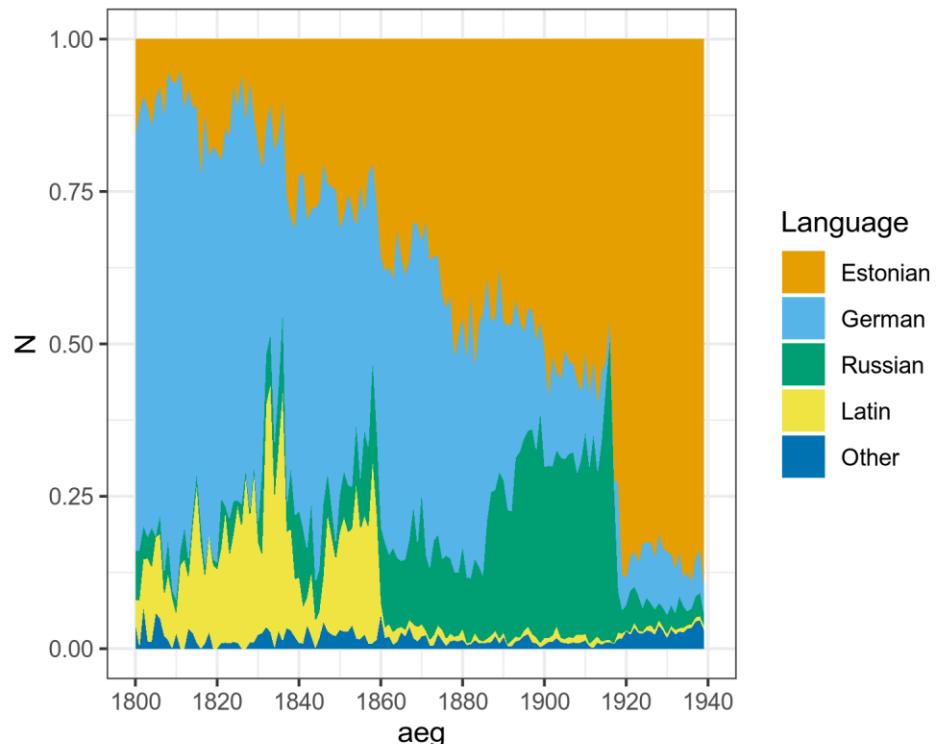
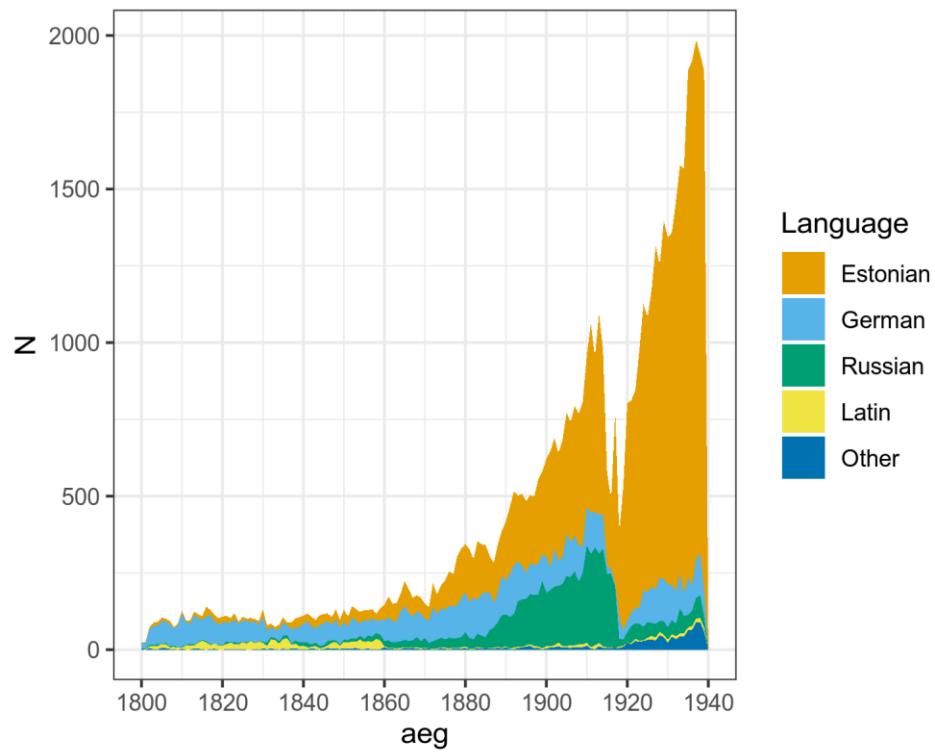
**839. Kord Vihalemm elas Ystadis :** Arvo Mägi ja Arno Vihamella kirjavahetus 1955-1959 / [koostanud ja kommenteerinud Pirte Noorhani ; toimetanud Kristi Metste ; Arno Vihamella illustratsioonid]. - Tartu : Eesti Kirjandusmuuseum, 2000 (Tartu : Guttenberg). - 257 lk, 4 l. ill.; 21 cm. - Sisaldb registrit. ISBN 9985-9286-8-7  
 UDK 821.511.113-6 ; 821.511.113 (092)(044); 76.071.1(474.2)(044)

*Eesti rahvusbibliograafia. Raamatud. 2001, #3, p.40.*

# Growth of the community



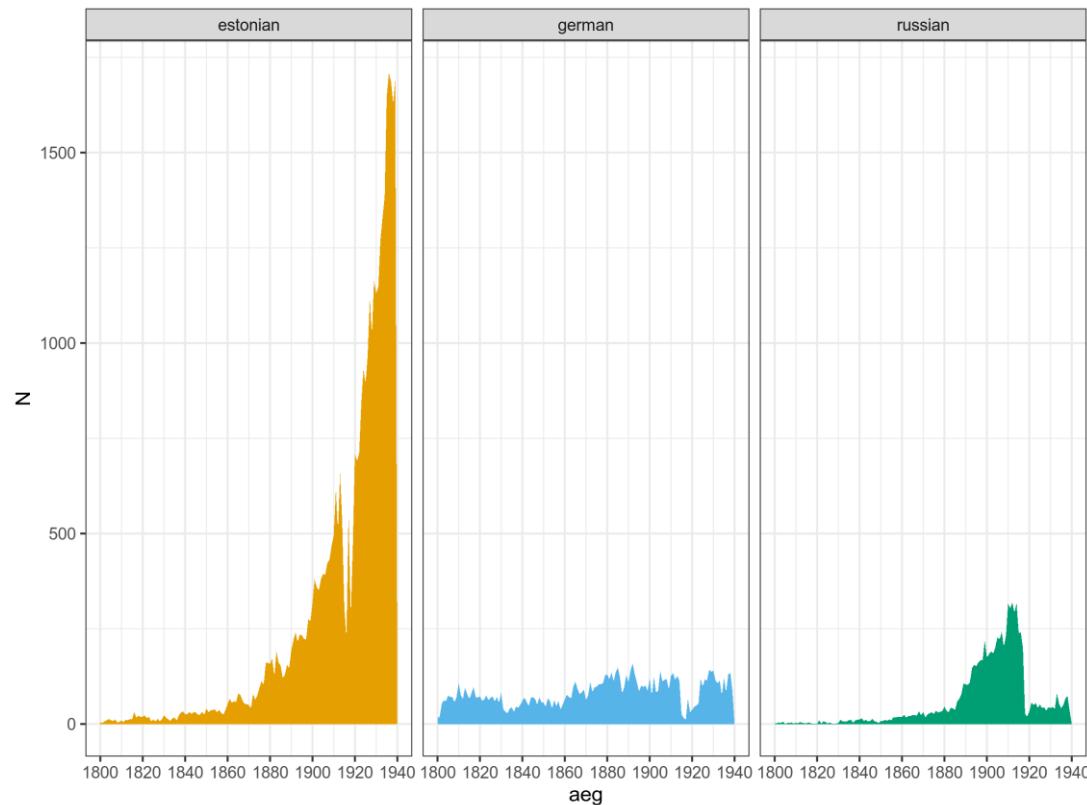
# Languages in community



# Languages in community

Estonian grows steadily – impact of Russianization is small

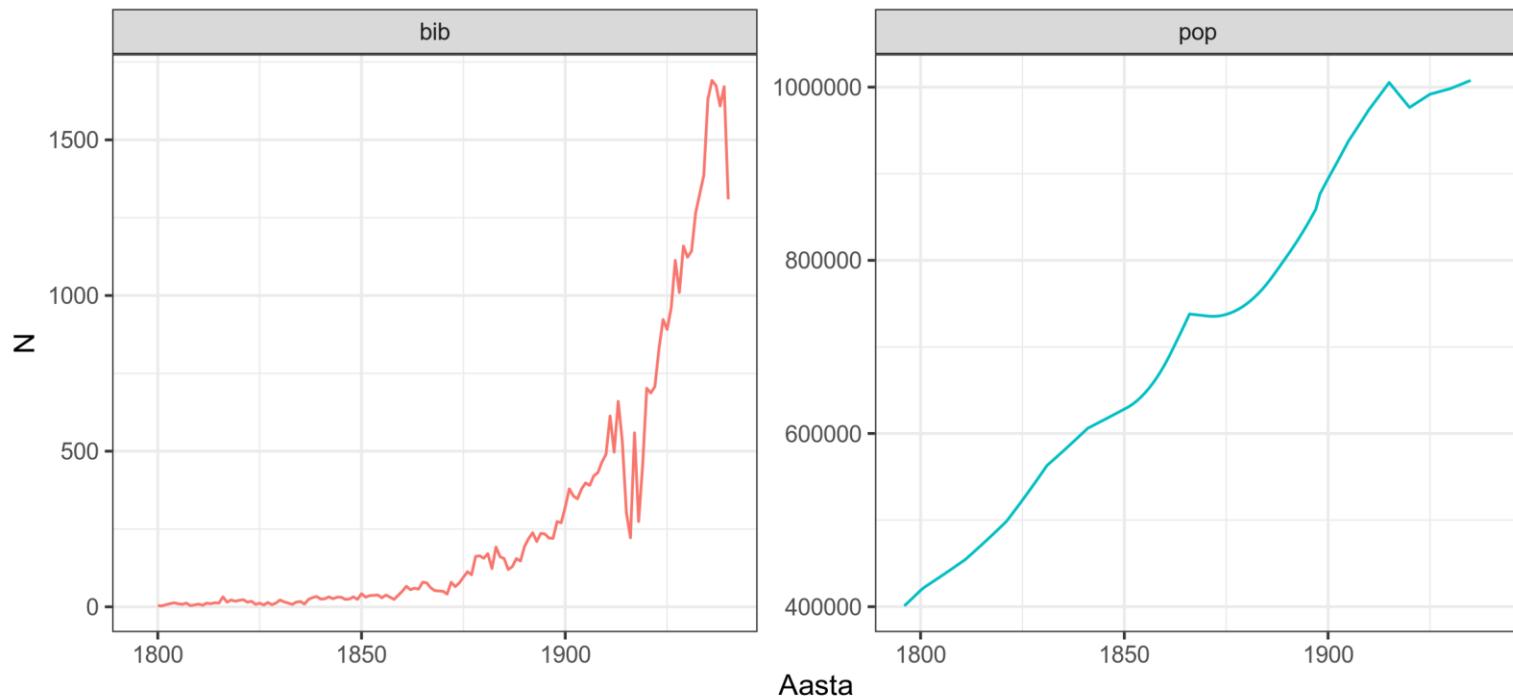
German is stable, Russian grows during Russianization



# Population and publications

Growth in population and publications

Eestikeelsed raamatud ja eestlasted

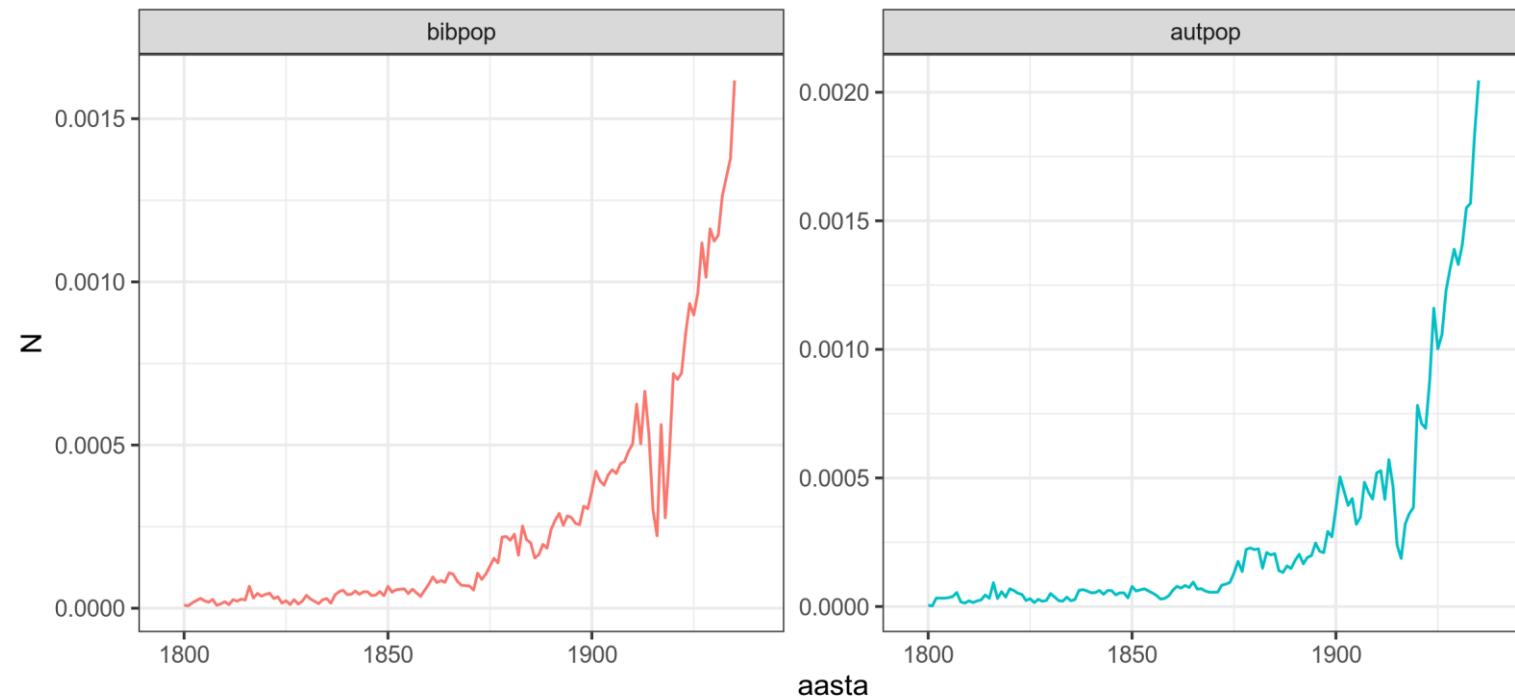


# Books/authors per capita

Growth in publications and people per capita

Doubles every ~20 years

Raamatuid ja aktiivset kirjarahvast inimese kohta



# Books/authors per capita

Why this is interesting

Growth = many new people (new to community)

System likely to move towards their preferences

*E.g native dialect of writer*

# Trends in the data

1. Migration and language contacts
2. Written language community
3. The birthplaces of individual authors

# Who wrote/published?

People connected to the publication

Authors, translators, editors, publishers

Original authors of translations were excluded



# Who wrote/published?

People connected to the publication

Authors, translators, editors, publishers

Original authors of translations were excluded

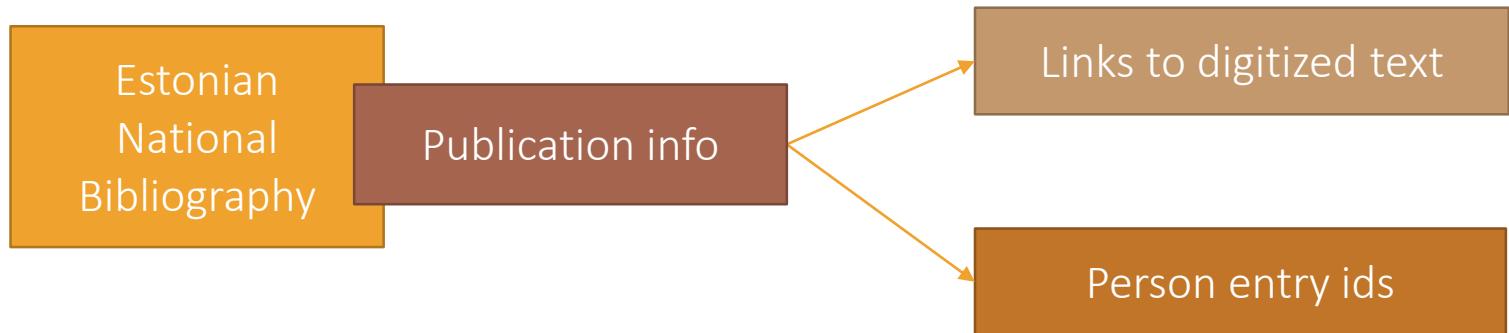
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11641	TRUE								Loskit, Juhani	Loskit, Juha																	
11642	TRUE								Loskit, Karl	Loskit, Karl																	
11643		ISIK	1908						Lossius, Eduard	Lossius, Edua																	
11644	TRUE	ISIK	1908						Lossius, Eduard	Lossius, Ed																	
11645	TRUE								Losski, Nikolai	Losski, Nik																	
11646		VEPP	1549						Lossman, Helmar	Lossman, Helma																	
11647		VEPP	4083						Lossman, Jüri	Lossman, Ju																	
11648	TRUE	VEPP	4084						Lossmann, Arthur	Lossmann, Ar																	
11649		VEPP	4084						Lossmann, Artur	Lossmann, Art																	
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11651	TRUE								Lossmann, J	Lossmann, J																	
11652		ISIK	1910						Lossmann, Jaan	Lossmann, Ja	1866-00-00																
11653	TRUE	unsure	ISIK	1910					Lossmann, Jaan	Lossmann, Jaan																	
11654	TRUE								Lossmann, Juri	Lossmann, Juri																	
11655		VEPP	3238						Lossmann, Peeter	Lossmann, Pe	24.03.1919	08.10.2013															
11656		ISIK	1911						Lotarjov, Igor Vassiljevitš~Eesti kirjanike le	Lotarjov, Igor	1887-05-16	1941-12-20															

Coauthor search results:

coauthor
\$aLuther, Martin,\$d1483-1546
\$aMuide, Jakob Martin,\$d1865-1942
\$aMuide, Jakob Martin,\$d1865-1942
\$aAavik, Johannes,\$d1880-1973
\$aPrants, Anna Mathilde,\$d1875-1943
\$aPrants, Hindrik,\$d1858-1932
\$aReiman, Villem,\$d1861-1917
\$aKuusk, Andres,\$d1874-1933
\$aMuide, Jakob Martin,\$d1865-1942, \$etölkija, \$aMuide, Jakob Martin,
\$etölkija, \$aMuide, Jakob Martin,
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\$d1880-1973, \$etölkija, \$aPrants, Anna
\$Mathilde,\$d1875-1943, \$etölkija, \$aPrants,
\$Hindrik,\$d1858-1932, \$etölkija, \$aReiman,
\$Villem,\$d1861-1917, \$etölkija, \$aKuusk,
\$Andres,\$d1874-1933, \$etölkija, \$aReiman,

# Metadata

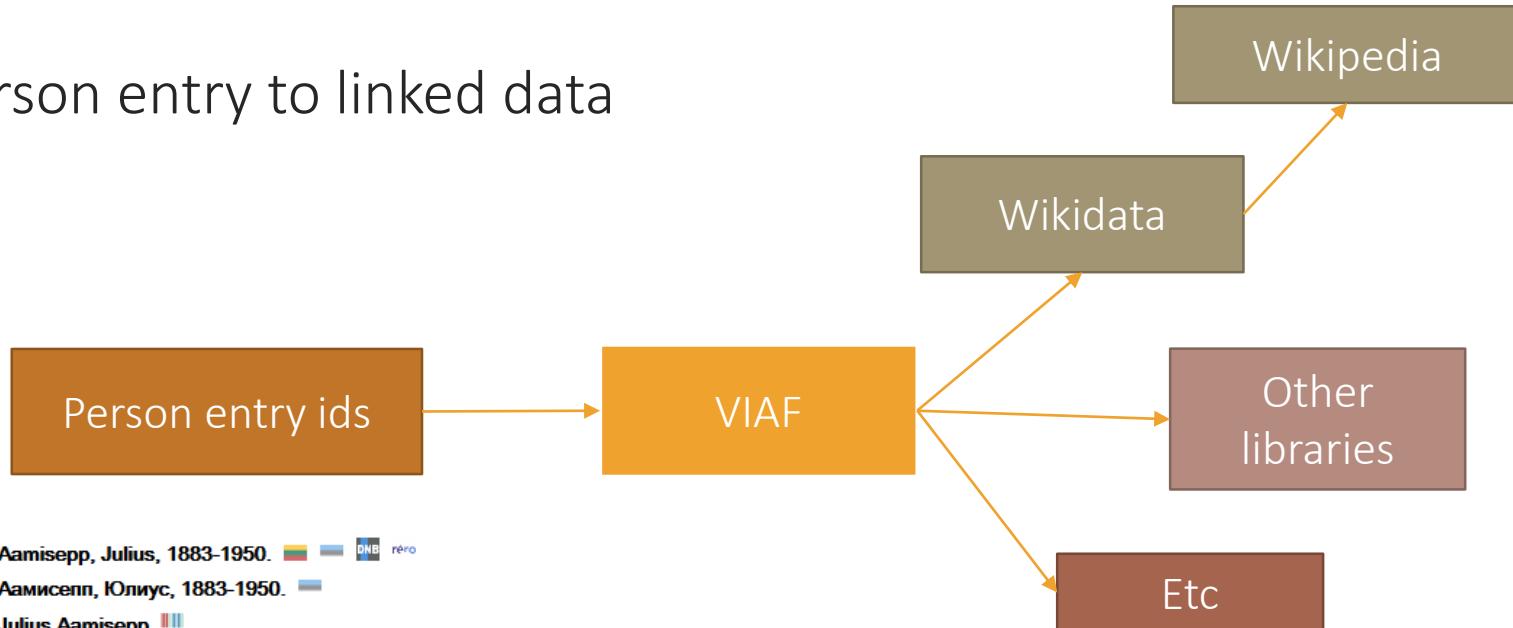
General indexes (e.g. Estonian National Bibliography)



## RAHVUSRAAMATUKOGU AVAANDMED

# Collecting them all, linking them

Person entry to linked data



Preferred Forms	
	200 _1 <a href="#">ta Aamisepp</a> <a href="#">tb Julius</a> <a href="#">tf 1883-1950</a>
	100 1 _ <a href="#">ta Aamisepp</a> , <a href="#">Julius</a> <a href="#">td 1883-1950</a>
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	100 1 _ <a href="#">ta Aamisepp</a> , <a href="#">Julius</a> , <a href="#">td 1883-1950</a>
	100 0 _ <a href="#">ta Julius Aamisepp</a>
	100 1 _ <a href="#">ta Аамисепп, Юлиус</a> , <a href="#">td 1883-1950</a>



# Aggregating the data

Diagram illustrating the aggregation of data from various sources:

Table showing the structure of the VIAF cluster:

001	ERRR a11124581 (VIAF cluster)
003	ERRR
008	990322 n adnnnaabn     a
035	‡a (ERRR)a11124581
040	‡a ErRR ‡b est ‡c ErRR ‡d ErTUR
043	‡c ee
100	1 ‡a Aamisepp, Julius ‡d 1883-1950
375	‡a 1 ‡2 iso6218
500	1 †0 (DE-101)1096201100 †0 (DE-588)1096201100 †0 http://d-nb.info/gnd/Aamisepp, Ilmar ‡d 1927-1992 ‡4 bezf ‡4 http://d-nb.info/standards/elementset/gnd#familyRelationship ‡w r ‡t Beziehung familiär ‡e Beziehung familiae
548	‡a 1883-1950 ‡4 datl ‡4 http://d-nb.info/standards/elementset/gnd#dateOfDeath ‡w r ‡t Lebensdaten
548	‡a 01.09.1883-19.01.1950 ‡4 datx ‡4 http://d-nb.info/standards/elementset/gnd#dateOfBirthAndDeath ‡w r ‡t Exakte Lebensdaten
550	‡0 (DE-101)04203194X †0 (DE-588)4203194-1 †0 http://d-nb.info/gnd/4203194-1 ‡a Agrarwissenschaftler ‡4 berc ‡4 http://d-nb.info/standards/elementset/gnd#professionOrOccupation ‡w r ‡t Charakteristischer Beruf
550	‡0 (DE-101)041779436 †0 (DE-588)4177943-5 †0 http://d-nb.info/gnd/4177943-5 ‡a Revolutionär ‡4 beru ‡4 http://d-nb.info/standards/elementset/gnd#professionOrOccupation ‡w r ‡t Beruf
551	‡a Karilepa ‡4 ortg ‡4 http://d-nb.info/standards/elementset/gnd#placeOfBirth ‡w r ‡t Geburtsort ‡9 v.Gem. Lääne-Harju

Wikidata item page for Julius Aamisepp:

Wikimedia Foundation logo and VIKIPEEDIA Vaba entsüklopeedia logo.

Page content for Julius Aamisepp:

**Julius Aamisepp**

Julius Aamisepp (1. september (vkj 20. august) 1883 Harjumaa, Kloostrivall, Karilepa, Karlepa-Tõnu talu – 19. jaanuar 1950 Jõgeva) oli eesti sordiaretaja.

Eesti biograafiline andmebaas ISIK

Summary of Julius Aamisepp's life:

- alehekülg - nimekirja otsing - ametkohad [110] - asutused [470] - kaastöö väljajannetele [113] - nimekirjukud [925] - pseudonüümid [9179] - sugulased [309] - surmakohtad [625] - tegevusala [599] - lühendid ja alkukad - admin

Biographical details for Julius Aamisepp:

**Nimi**: Aamisepp, Julius  
**Eludatud aastad**: 1883-09-01 (Karilepa-Tõnu t. Kloostriv. Harjumaa), 1950-01-19 (Jõgeva)  
**Maksumaks**: maetud Tartu Raadi kalmistule  
**Üldandmed**: Tegevusalad

Sordiaretaja:

1. IX 1883 Harjumaa kloosteri valla Karilepa-Pedu, Täpselt ei oleks Sima A. Liisa Viigri Aia 157 Ants Maria Volmer, Ants (1918, v), Valve Jaagus (1920, v), Ilmar (1927–92, v), Vasalemma vallakool 1893–97, Paldiski algkool 1897–1900, Heapsalu linna kool 1902–03, Peterburji linna kool 1903–04, Tallinna 1911–12, põhikoolide õpilas 1912–13, üliõpilas 1913–14, Eesti Üliõpilaste vennastekud 1905–06, 1. maaõpilaste ühendustöökoma asjaaja, Vabadeussõjas ülemjuhataja staabi impeeriumi sõjaväes, 1919–20 Eesti Vabariigi sõjaväes, 1920–21 Eesti Vabariigi sõjaväes, 1920–50 "Valkelooma-kasvatja" töötaja 1919–21, ENSV TA korrespondent 1946, UN 1947–50 (II ke), ENSV teeneline teadlane 1945, NE preemia 1947, Stalin preemia 1948, Sumrud 19. I 1950 Jõgeval, maetud Tartu Raadi kalmistule. EAT, EE, EBU, EAT2, ENE1, EME2, EABU, VJV, ENE2(4), EReadBu – ISIKTAM12

# Harmonization

For archival purposes, accuracy is key.

For analysis, data harmonization is often needed.

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30  works <- works[,koht:=str_replace_all(koht,"$","")]
31  works <- works[,koht:=str_replace_all(koht,"$","")]
32  #works <- works[!duplicated(works)]
33  #places[places!="&places!="S.l."&places!="S. l."&places!="S. l.,"]
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35  works[str_detect(koht,"Paide"),koht:="Paide"]
36  works[str_detect(koht,"Weissenstein"),koht:="Paide"]
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51  works[kirjastus=="leoke'se kirjastus",kirjastus:= "h.leoke"]
52  works[kirjastus=="leoke",kirjastus:= "h.leoke"]
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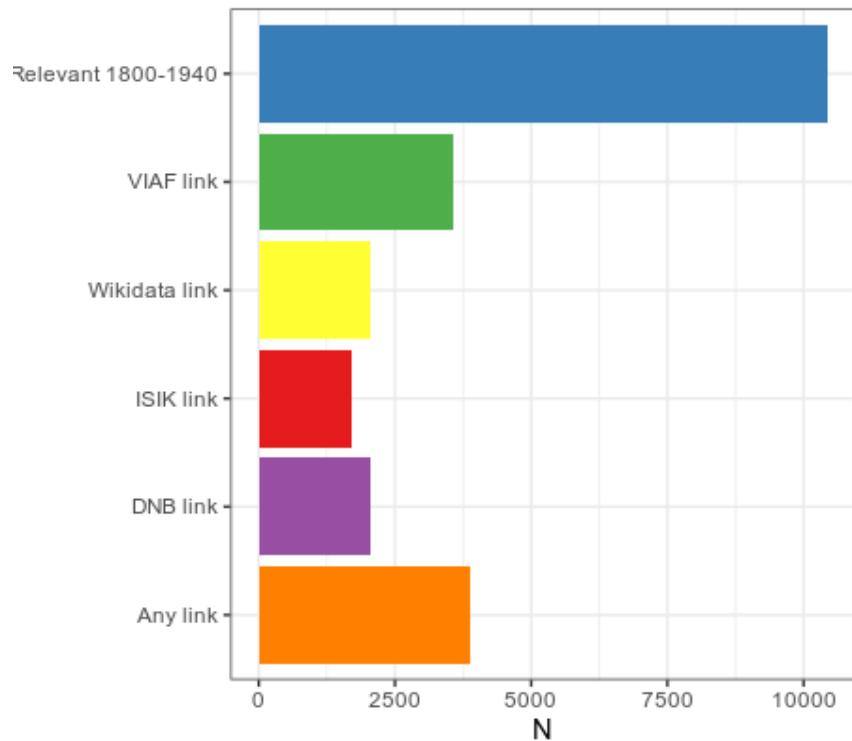
# Manual linking

## Manual linking

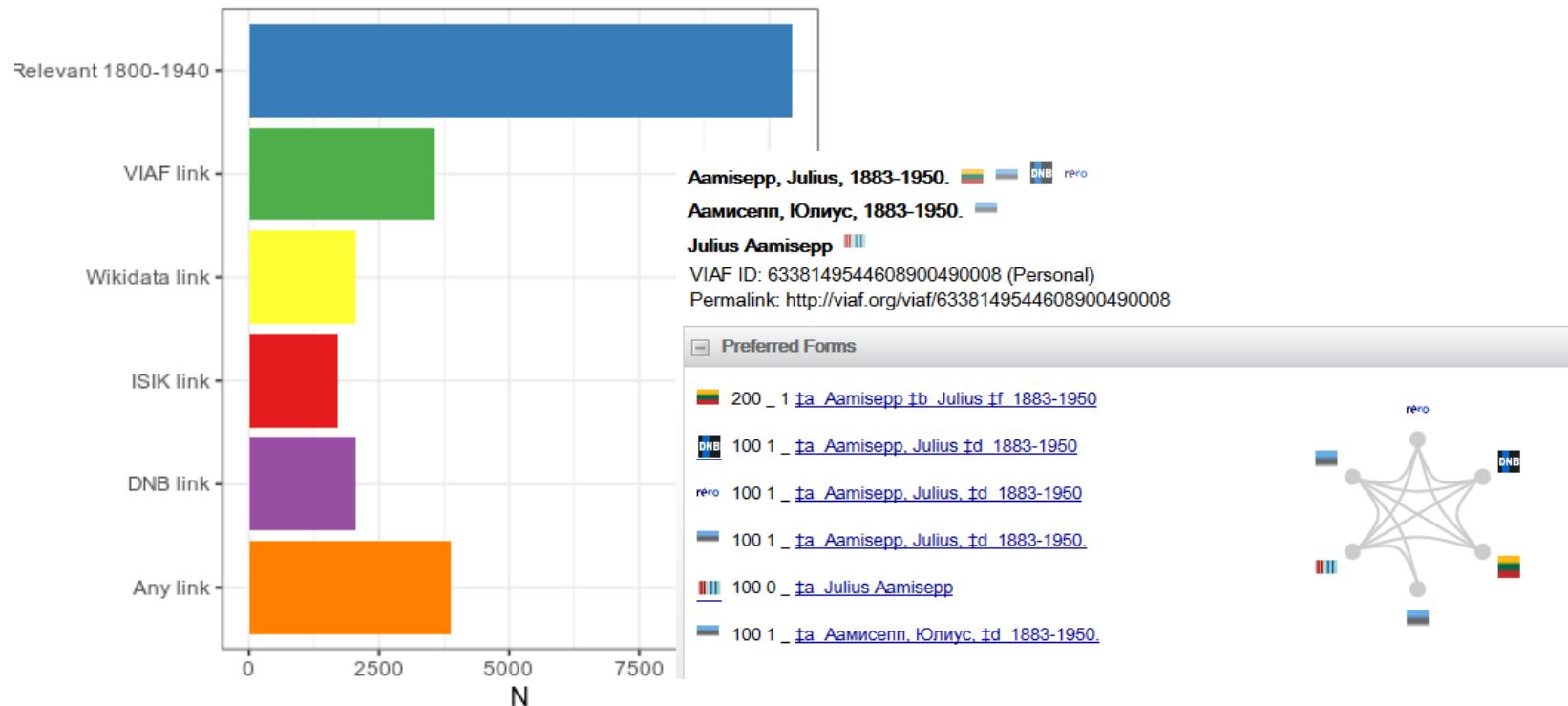
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b15181315	ILU1910_ilu0037	1913	6865		Kann, Aleksander
b1663438x	1845-Umbria.txt		1845		
b14946750	ILU1910_ilu0017	1910	3235		Ertel, Alide
b11478779	POGENENUD KLOOSTRI KASVANDIK - Arvamus ja sõnaarvamust	1885	2471		Saal, Andres
b16120516	saal_wambola_9789949530670.txt	1889	2471		Saal, Andres
b1497096x	SOSTRA-SILMAD - Andres Saal.txt	1890	2471		Saal, Andres
b1496935x	Aita - Andres Saal.txt	1891	2471		Saal, Andres
b12698180	saal-parisiapuri.txt	1891	2471		Saal, Andres
b11494487	UUDU JA MEETA - Andres Saal.txt	1892	2471		Saal, Andres
b14974265	PARIS JA PRILL. 2 - Andres Saal.txt	1893	2471		Saal, Andres
b12072655	LUULETUSED - Anna Haava.txt	1888	4802		Haavakivi, Anna
b14668026	LUULETUSED. Teine vihik - Anna Haava.txt	1890	4802		Haavakivi, Anna
b11327121	LUULETUSED Kolmas vihik - Anna Haava.txt	1897	4802		Haavakivi, Anna
b13472422	Lained - Anna Haava.txt	1906	4802		Haavakivi, Anna
b14668257	RIST-LAINED - Anna Haava.txt	1910	4802		Haavakivi, Anna
b14668294	ILU1910_ilu0031	1911	4802		Haavakivi, Anna
b11529817	POHJAMAA-LAPSED - Anna Haava.txt	1913	4802		Haavakivi, Anna

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11653	TRUE	unsure	ISIK	1910					Lossmann, Jaan	Lossmann, Jaan								
11654	TRUE								Lossmann, Juri	Lossmann, Juri				1891-1984	\$aLossmann, Juri	http://viaf.org/viaf/5828149544604900490006		
11655		VEPP	3238						Lossmann, Peeter	Lossmann, Peeter	24.03.1919	08.10.2013						
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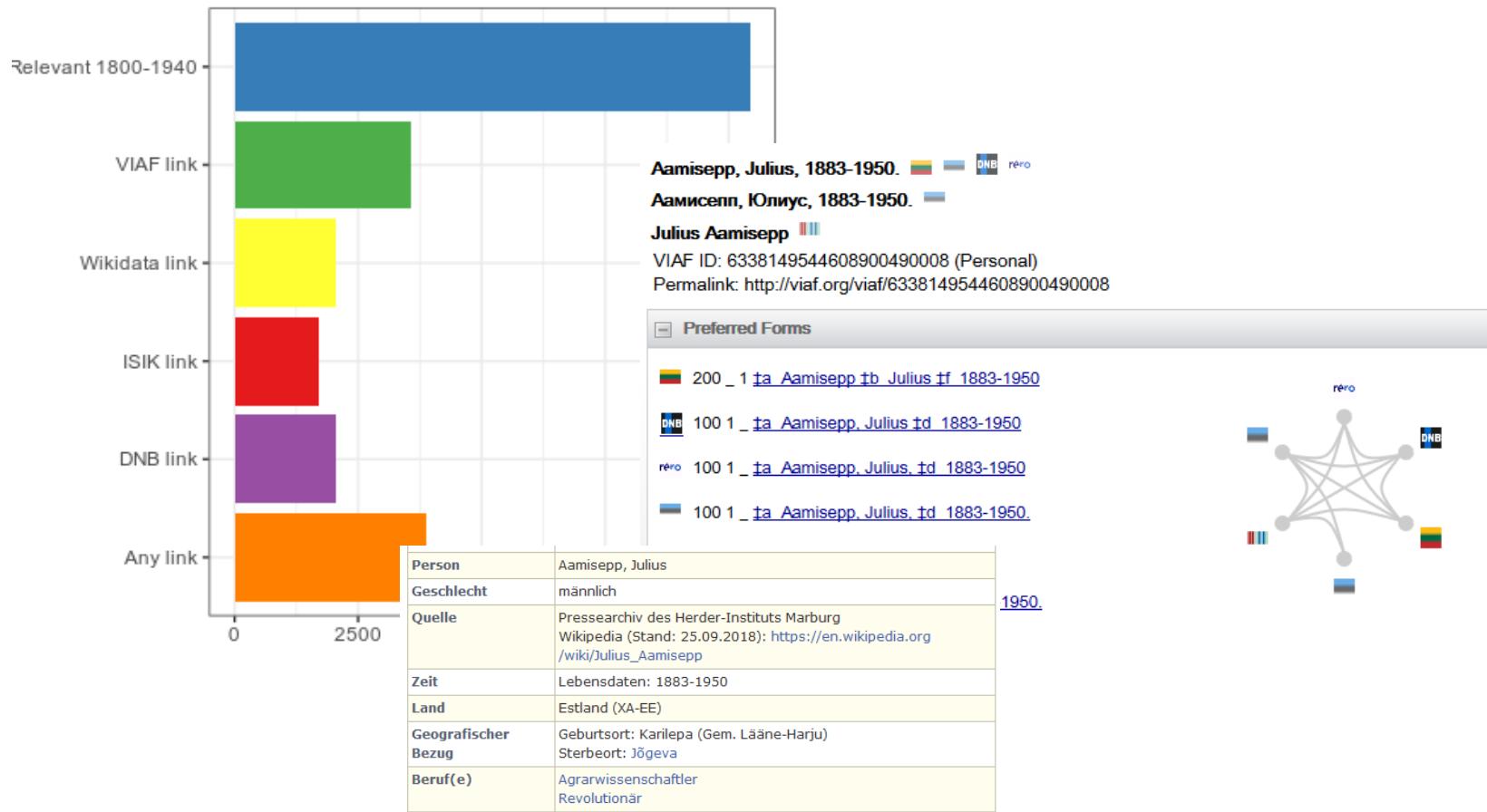
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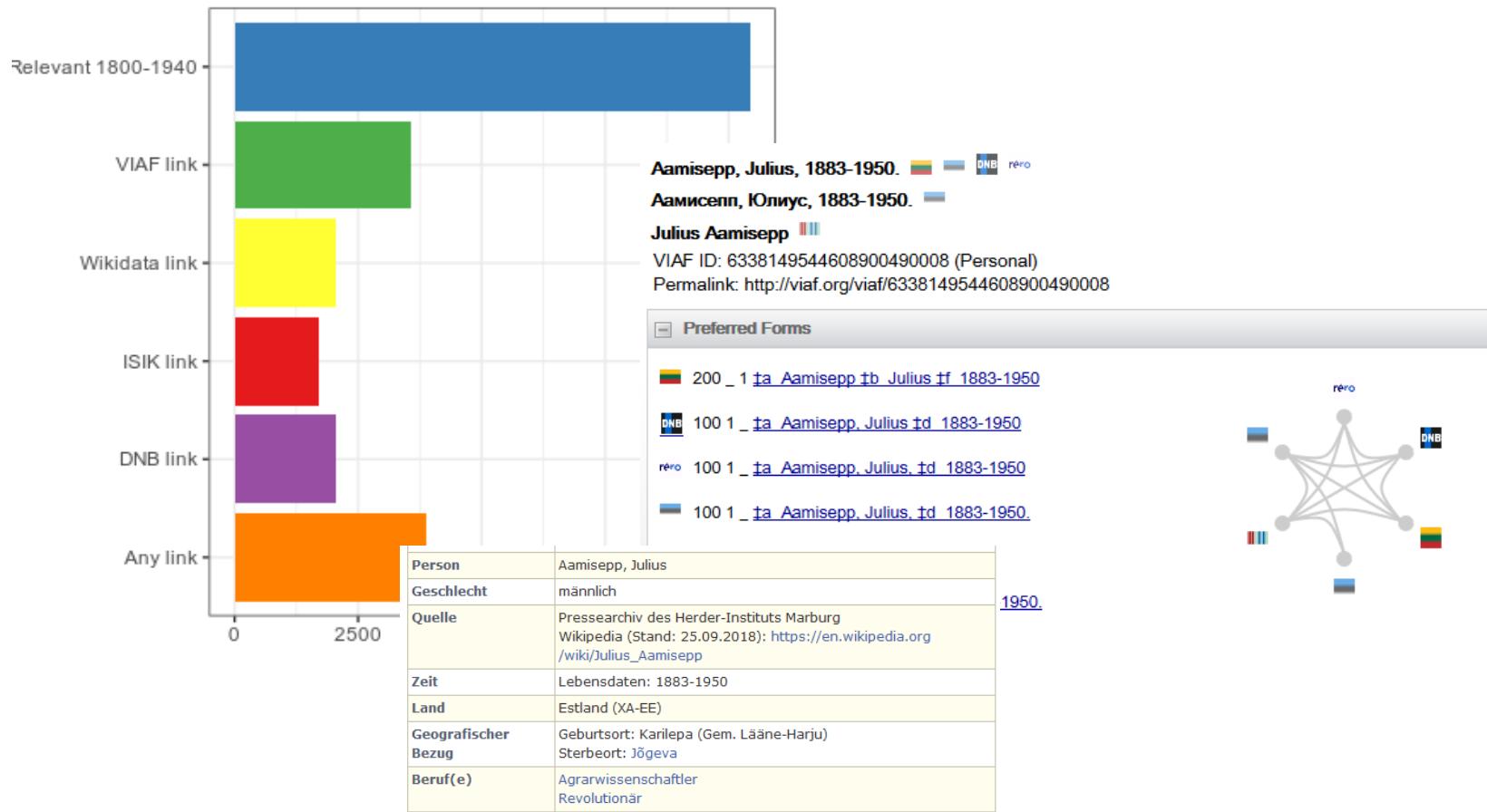
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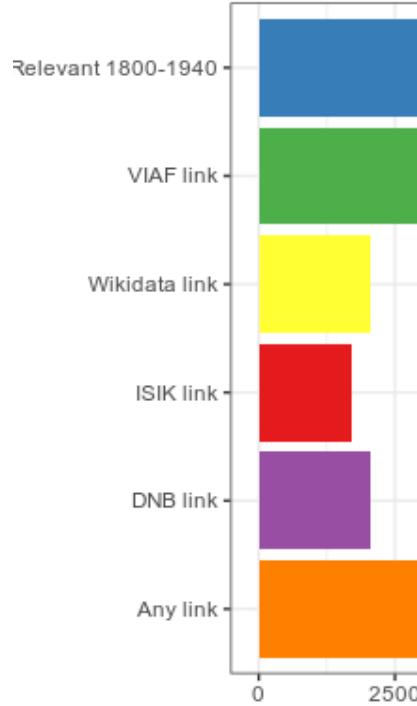
# Linking metainfo



# Linking metainfo



# Linking metainfo



<b>Person</b>	Aamisepp, Julius
<b>Geschlecht</b>	männlich
<b>Quelle</b>	Pressearchiv des Herder-Instituts Marburg Wikipedia (Stand: 25.09.2018): <a href="https://en.wikipedia.org/wiki/Julius_Aamisepp">https://en.wikipedia.org /wiki/Julius_Aamisepp</a>
<b>Zeit</b>	Lebensdaten: 1883-1950
<b>Land</b>	Estland (XA-EE)
<b>Geografischer Bezug</b>	Geburtsort: Karilepa (Gem. Lääne-Harju) Sterbeort: Jõgeva
<b>Beruf(e)</b>	Agrarwissenschaftler Revolutionär



Sisse logimata Arutelu Kaastöö Loo konto Logi:

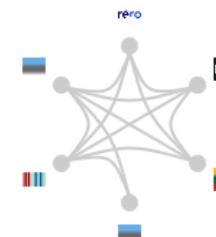
Artikel | Arutelu | Vaata | Muuda | Muuda lähteteksti | Näita ajalugu | Otsi Vikipeediat

**Julius Aamisepp**

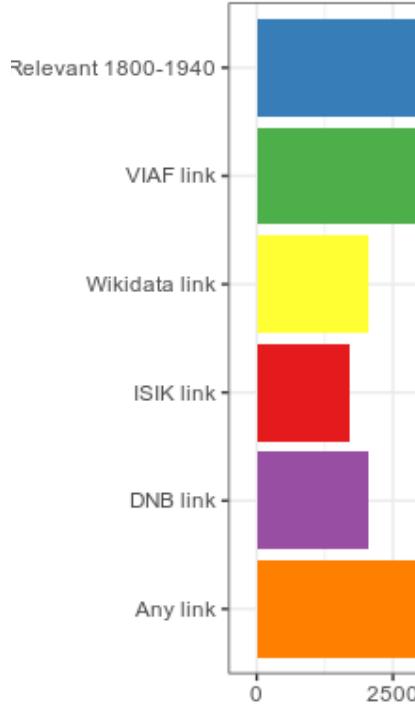
Julius Aamisepp (1. september (vkj 20. august) 1883 Harjumaa, Kloostr vald, Karlepa, Karlepa-Tõnu talu – 19. jaanuar 1950 Jõgeva) oli eesti sordiaerataja.

**Aamisepp, Julius, 1883-1950.**   
**Аамисепп, Юлиус, 1883-1950.**   
**Julius Aamisepp**   
 VIAF ID: 6338149544608900490008 (Personal)  
 Permalink: <http://viaf.org/viaf/6338149544608900490008>

Preferred Forms	
	<a href="#">200 _ 1 _ta_Aamisepp _tb_Julius _tf_1883-1950</a>
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# Linking metainfo



<b>Person</b>	Aamisepp, Julius
<b>Geschlecht</b>	männlich
<b>Quelle</b>	Pressearchiv des Herder-Instituts Marburg Wikipedia (Stand: 25.09.2018): <a href="https://en.wikipedia.org/wiki/Julius_Aamisepp">https://en.wikipedia.org/wiki/Julius_Aamisepp</a>
<b>Zeit</b>	Lebensdaten: 1883-1950
<b>Land</b>	Estland (XA-EE)
<b>Geografischer Bezug</b>	Geburtsort: Karilepa (Gem. Lääne-Harju) Sterbeort: Jõgeva
<b>Beruf(e)</b>	Agrarwissenschaftler Revolutionär



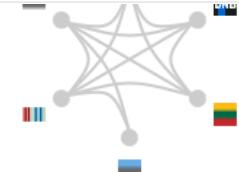
Artikkel | Arutelu

Vaata | Muuda | Muuda lähiteksti | Näita ajalugu | Otsi Vikipeediat

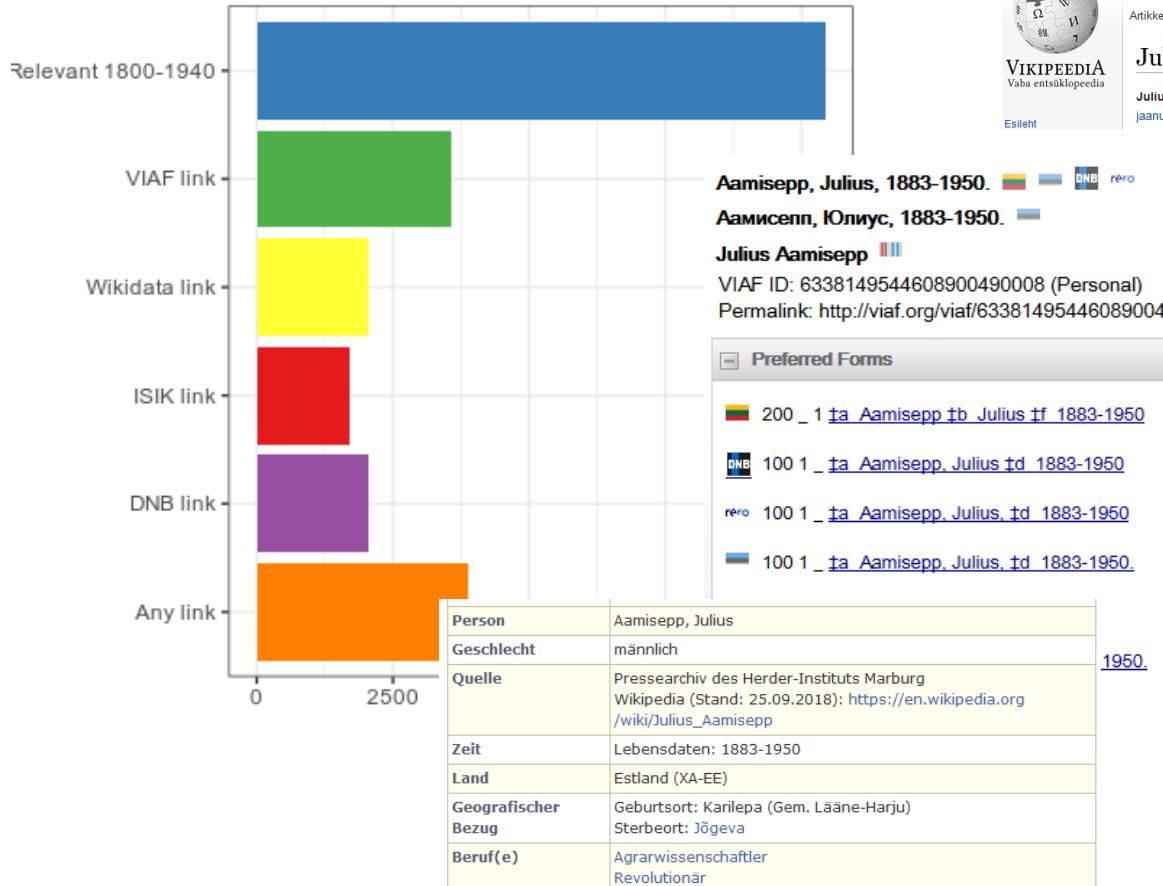
## Julius Aamisepp

Julius Aamisepp (1. september (vkj) 20. august) 1883 Harjumaa, Kloostr vald, Karilepa, Karlepa-Tõnu talu – 19. jaanuar 1950 Jõgeva) oli eesti sordiaerataja.

100	1 ta Aamisepp, Julius †d 1883-1950
375	ta 1 †z is056218
500	1 †o (DE-1011096201100 †o (DE-588)1096201100 †o http://dnb.info/gnd/1096201100 †a Aamisepp, Ilmar †d 1927-1992 †z bezf †z http://dnb.info/standards/elementset/gnd/familialRelationship †w r †i Beziehung familiarer †e Beziehung familiär †9 v.Sohn
548	ta 1883-1950 †4 dall †4 http://dnb.info/standards/elementset/gnd/dateOfBirthAndDeath †w r †i Lebensdaten
548	ta 01.09.1883-19.01.1950 †4 datx †4 http://dnb.info/standards/elementset/gnd/dateOfBirthAndDeath †w r †i Exakte Lebensdaten
550	10 (DE-101104203194X †o (DE-588)4203194-1 †o http://dnb.info/gnd/4203194-1 †a Agrarwissenschaftler †4 berc †4 http://dnb.info/standards/elementset/gnd/professionOrOccupation †w r †i Charakteristischer Beruf
550	10 (DE-1011041779436 †o (DE-588)4177943-6 †o http://dnb.info/standards/elementset/gnd/professionOrOccupation †w r †i Beruf
551	ta Karilepa †4 org †4 http://dnb.info/standards/elementset/gnd/placeOfBirth †w r †i Geburtsort †9 v.Gem. Lääne-Harju



# Linking metainfo



Artikel

Arutelu

Vaata

Muuda

Muuda lähiteksti

Näita ajalugu

Otsi Vikipeediat

## Julius Aamisepp

Julius Aamisepp (1. september (vkj) 20. august) 1883 Harjumaa, Kloostr vald, Karlepa, Karlepa-Tõnu talu – 19. jaanuar 1950 Jõgeva) oli eesti sordiaretaja.

100	1 <a href="#">ta Aamisepp, Julius</a> <a href="#">td 1883-1950</a>
375	ta 1 <a href="#">t2 is05218</a>
500	1 <a href="#">t0 (DE-101041096201100 t0 (DE-588)1096201100 t0 http://id-nb.info/gnd/1096201100 ta Aamisepp, Ilmar</a> <a href="#">td 1927-1992 t4 bezf t4 http://id-nb.info/standards/elementset/gnd/familialRelationship t4 r t1 Beziehung familialer t4 Beziehung familialer t9 v.Sohn</a>
548	ta 1883-1950 t4 dall f4 http://id-nb.info/standards/elementset/gnd/dateOfBirthAndDeath t4 r t1 Lebensdaten
548	ta 01.09.1883-19.10.1950 t4 datx 14 http://id-nb.info/standards/elementset/gnd/dateOfBirthAndDeath t4 r t1 Lebensdaten
550	10 <a href="#">(DE-101041096201100 t0 (DE-588)1096201100 t0 http://id-nb.info/gnd/1096201100 ta Aamisepp, Ilmar</a> <a href="#">td 1927-1992 t4 bezf t4 http://id-nb.info/standards/elementset/gnd/familialRelationship t4 r t1 Beziehung familialer t4 Beziehung familialer t9 v.Sohn</a>
550	10 <a href="#">(DE-101041096201100 t0 (DE-588)1096201100 t0 http://id-nb.info/gnd/1096201100 ta Aamisepp, Ilmar</a> <a href="#">td 1927-1992 t4 bezf t4 http://id-nb.info/standards/elementset/gnd/familialRelationship t4 r t1 Beziehung familialer t4 Beziehung familialer t9 v.Sohn</a>
550	10 <a href="#">(DE-101041779436 t0 (DE-588)41779436 t0 http://id-nb.info/gnd/4177943-6 ta Aamisepp, Julius</a> <a href="#">td 1883-1950 t4 beru t4 http://id-nb.info/standards/elementset/gnd/professionOrOccupation t4 r t1 Beruf</a>
551	ta Karilepa t4 org t4 http://id-nb.info/standards/elementset/gnd/placeOfBirth t4 r t1 Geburtsort 19 v.Gem. Lääne-Harju

## Eesti biograafiline andmebaas ISIK

avalehekul - nimekirja ja otsingu - ametikohad [110] - asutused [470] - isikud [4486] - kaastöö väljapaistvete [1133] - nime erikujud [925] - pseudonüümid [9179] - sugulased [309] - sunnikohad [625] - surmakkohad [186] - tegevusala [599] - luuhind [14]	
<b>AAMISEPP, JULIUS</b>	
<b>Nimi</b>	
Nime normitud kuju	Aamisepp, Julius
<b>Elulaatud</b>	
Sünneaeg	1883-09-01
Sünnekoh	Karilepa-Tõnu v. Kloostr v. Harjumaa.
Surmaaeg	1950-01-19
Surmakoh	Jõgeva
Markus	maetud Tartu Raadi kalmistule
<b>Üldandmed</b>	
Tegevusala	sordiaretaja
	1.IX 1883 Harjumaa (koost. valla Karilepa-Tõnu) Tulnitsa mõis Sima A., läbir. Vägter. As 1917 Anna Maria Volmer. Ants (1918, vt), Volvo Jaakus (1920, vt), Ilmar (1927–52, vt). Vesalemma valgakool 1893–97, Paljala algkool 1897–1900, Haapsalu linnakool 1902–03, Peterburii linnaüksusvabrikus 1911–12, põllumaaduselamus 1914–15, Sõjaväepealik, vengistatud 1920–21, mõisnik 1921–22, sordiaretaja 1922–1945, Tõlliste 1941–16, Eesti Sõjaväelaste Keskkirjutoju juhatuse liige, Harju maakonnamuusikkoju liige ja sekretär 1917–20, 1918 Eesti divisjoni staabi mõisnik, 1919–20 Eesti ühiskonnakooskonna asjaõigust, Vabariigis õlemuühitaja staabi liige, 1920–21 Eesti Sõdrapäevade komitee liige, 1920–21 Eesti sordiaretaja, 1920–21 Eesti sordiaretaja 1920–50, "Väikeloomaga-kasvatja" toimetaja 1919–21, ENSV TA korrespondentiluge 1946, UN 1947–50 (II kse), ENSV teeneline teadlane 1945, NE preemia 1947, Stalin preemia 1945, 50-aastraud 19.1.1950 Jõgeval, maetud Tartu Raadi kalmistule. EAT, EE, EBLU, EAT2, ENE1, ENE2, EABL, VJK, ENR2(14), EtestDB – ISOTAHM2
<b>Biograafilised andmed</b>	

# Birthplaces

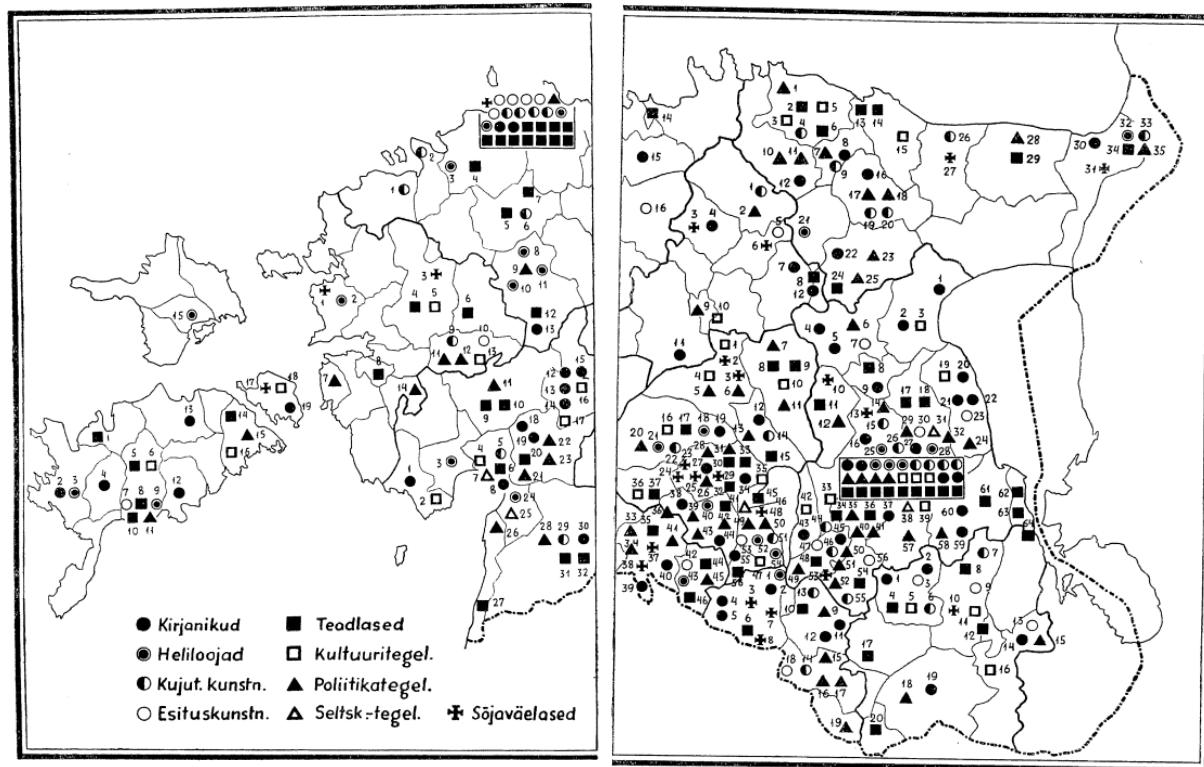
By linking the data we get birthplaces



[Birthplaces visualization link](#)

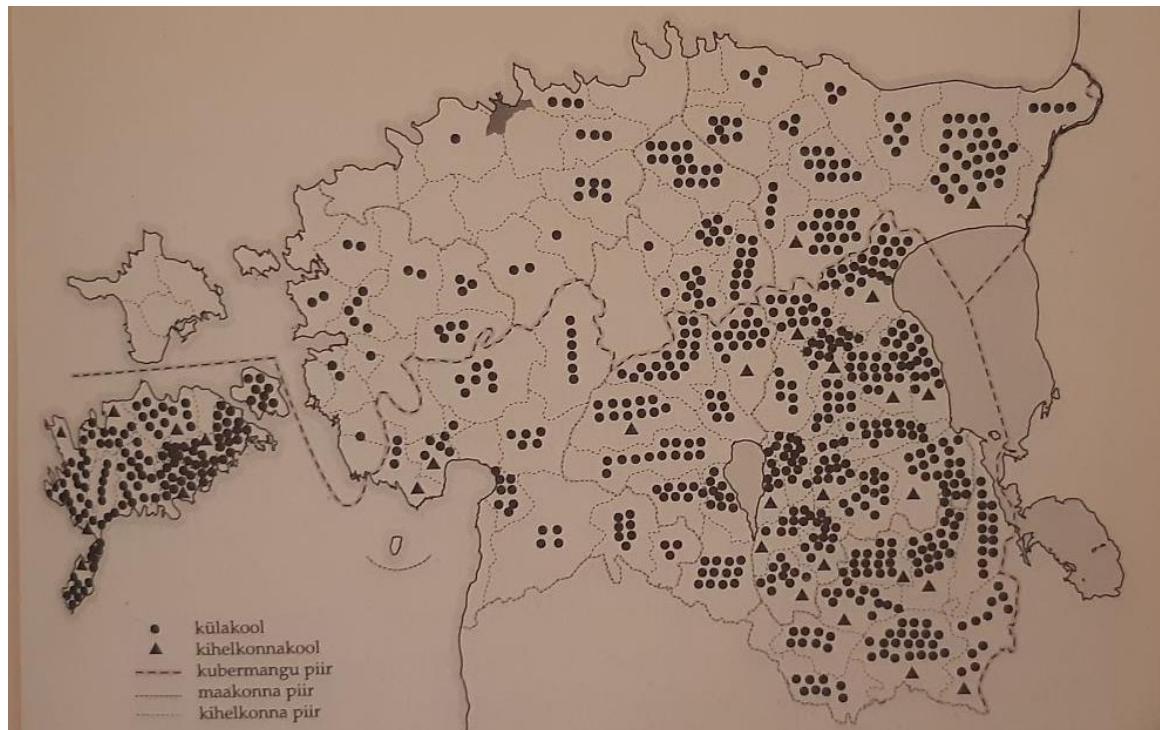
# Kultuuriteglaste sünnikohad

Vrd Miks 1938: Eesti olulisemate kultuuriteglaste sünnikohad



Miks, A. 1938. Märkusi Eesti kultuuriteglaste päritolu kohta. Eesti Kirjandus 3: 129-141

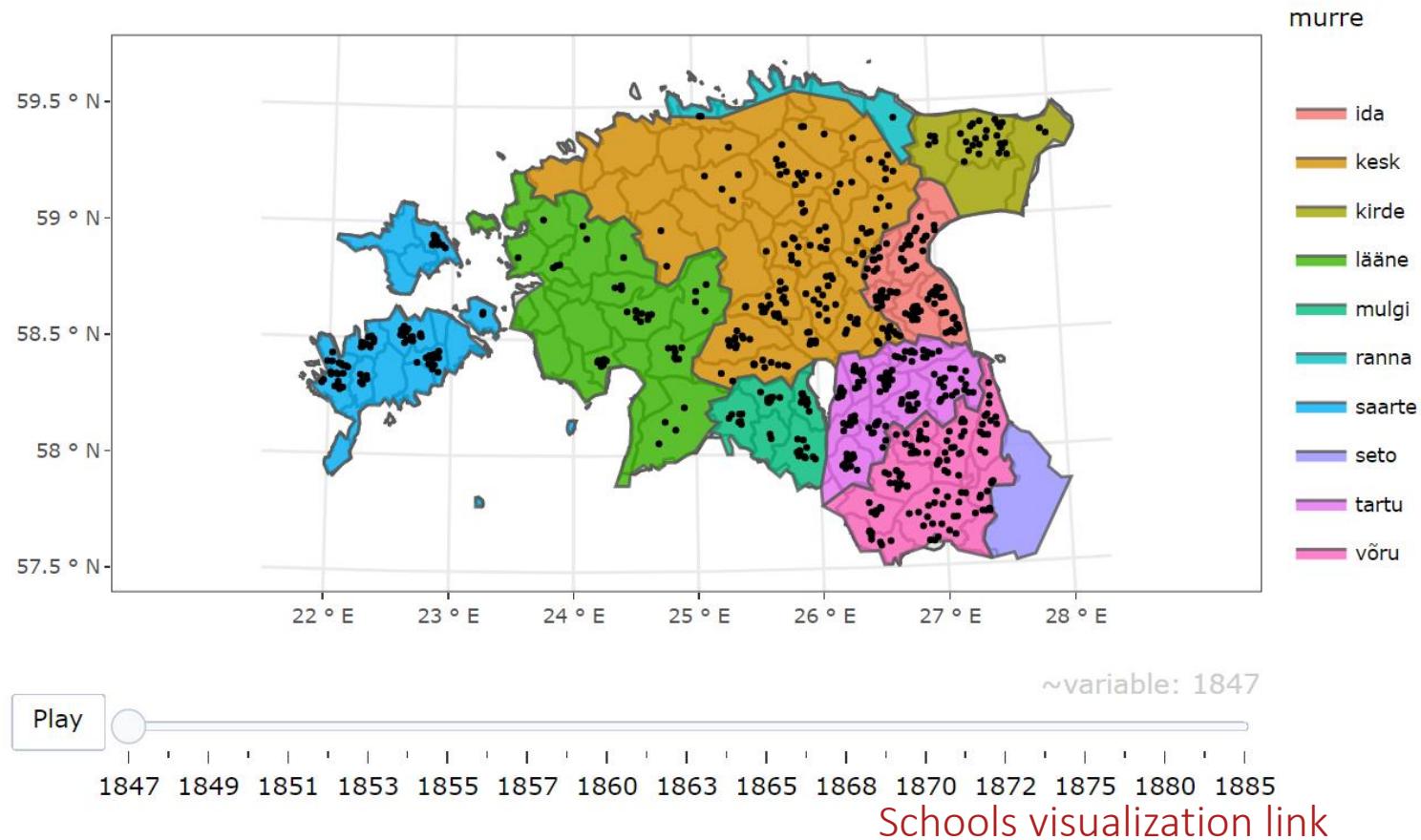
# Public schools in 19c



Public schools in 1851 (Andresen 2003)

# Public schools in 19c

Are founded from 1830s to 1880s



# Estonia & Livonia

Administrative rules differ

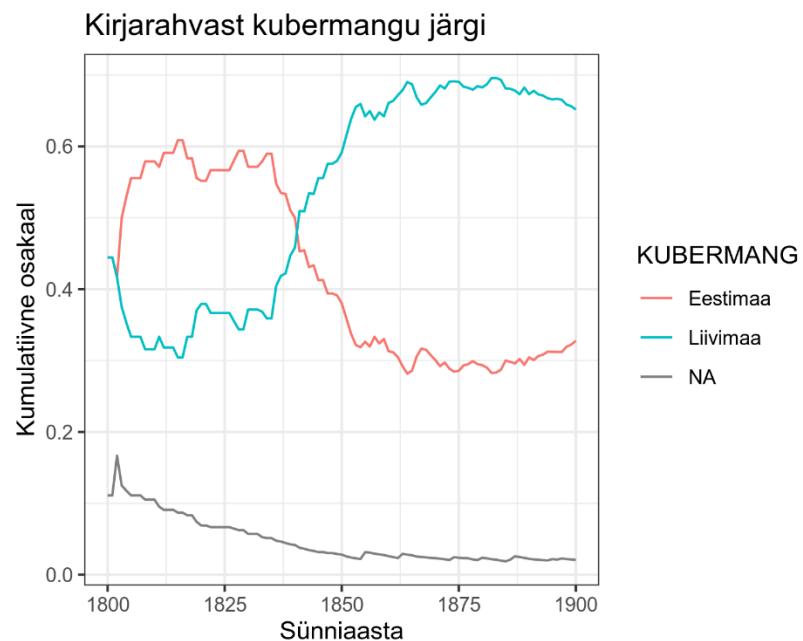
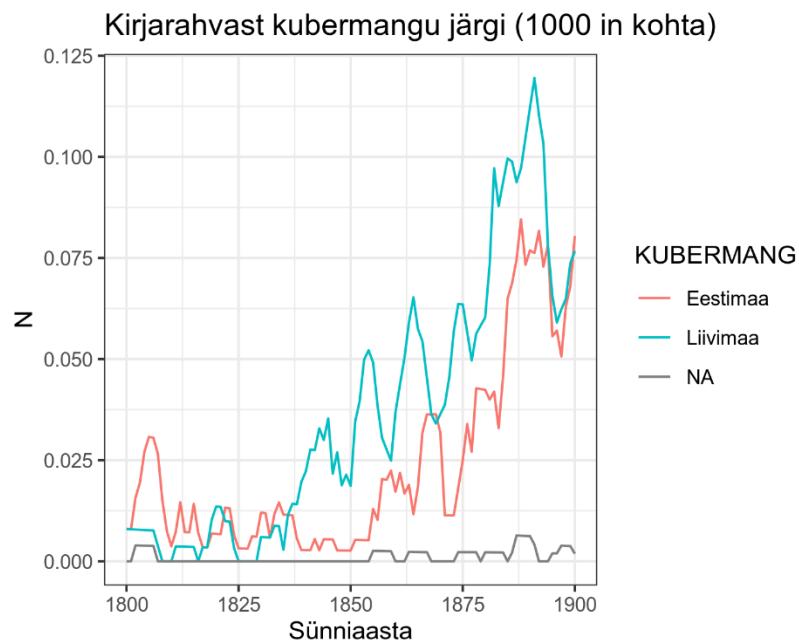
Livonia was founding schools quicker, and peasants grew quicker in wealth

Influence on written language



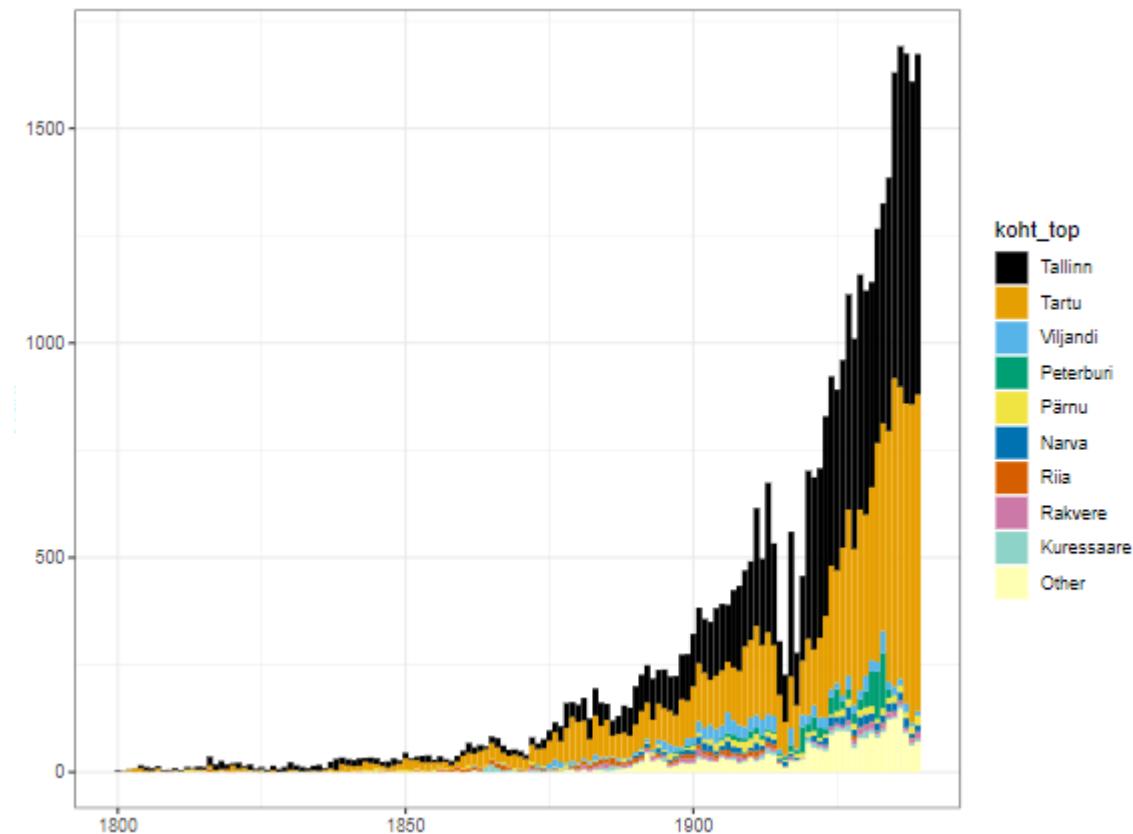
# Birthplaces of the literati

1840-1900 a lot more literati are born in Livonia



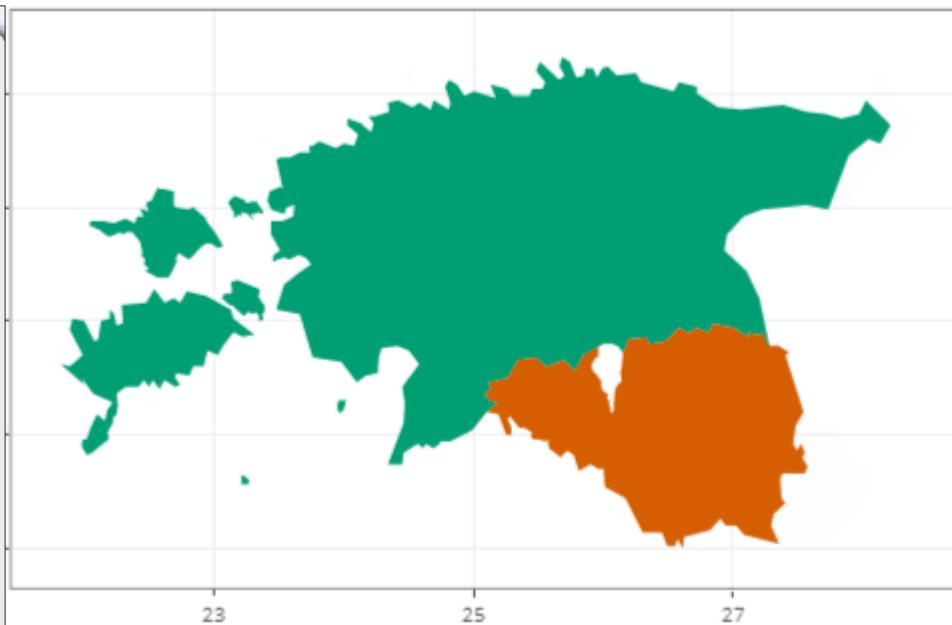
# Publication places

1800-1940



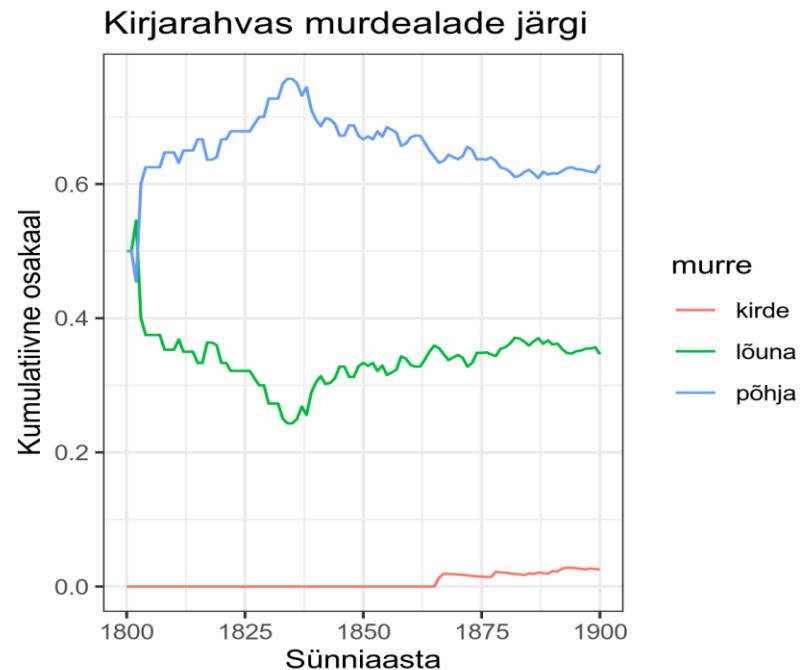
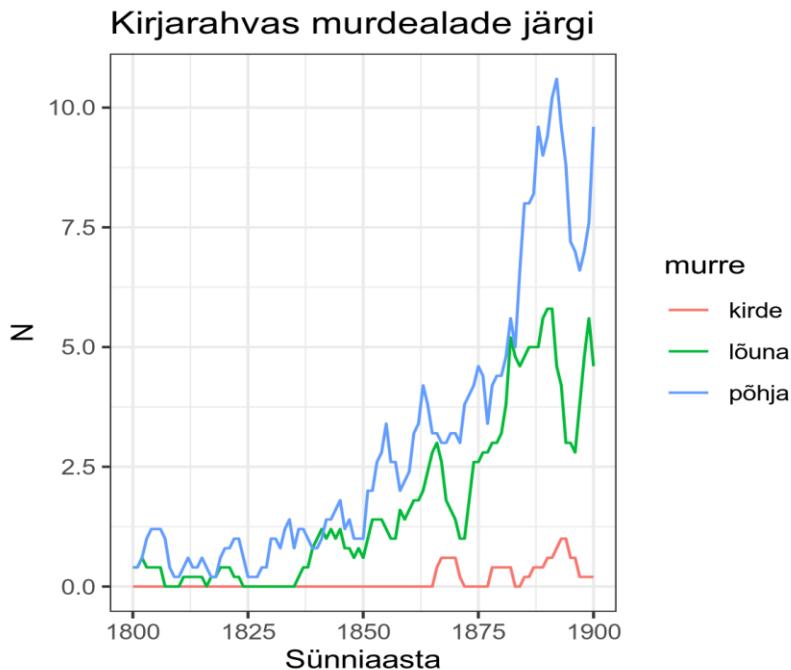
# Birthplaces of the literati

Dialect borders don't match governate borders



# Birthplaces of the literati

The language is still biased more towards the northern dialects as they have a strong presence in Livonia



# Conclusions

A lot of migration, but mostly within dialect areas

Growth of the community, despite public policies

Strong influx of new writers

Administrative influence on cultural development

Origins of new writers are biased, but not by dialect borders

# Conclusions 2

Metainformation to study cultural history

Bibliographies

Demographies

Biographies

Each set needs preparations and work on its own

Value to be gained from linking the datasets and analyses

Aitäh!  
Thank you!