



SampoSampo

Connecting Everything to Everything Else

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Contents

- **Assembling data**
 - **Historical people**
 - Organizations
 - Places
 - Person-place relations
- **Web Portal**



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Historical People



Based of VIAF

1. **Assembled from 58 National Libraries:** <https://viaf.org/>
 - a. corporate names
 - b. geographic names
 - c. people
 - d. work, expressions etc

2. **Data for people:** [5047015 A. Gallen-Kallela](#)
 - a. Alternate Name Forms
 - b. Life Years, Nationality, Occupation
 - c. Statistics about related works, people, etc.

VIAF: The Virtual International Authority File



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People Data

- Combining data from various Sampo systems and external databases
- Biographical data enriched by combining from multiple sources:
 - existing linkage
 - name variations
 - lifetime years (required)
 - places of birth and death
- Left out of the scope:
 - People alive
 - People with no exact lifetime information



People by data sources

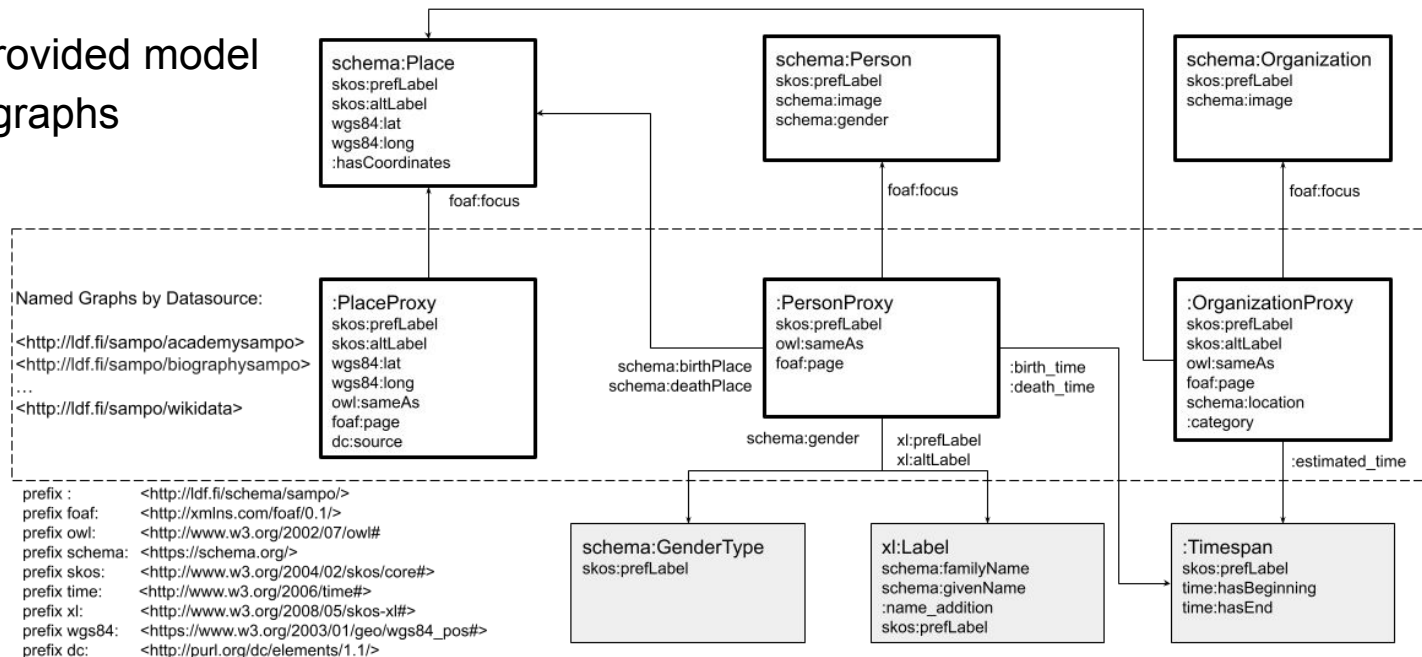
- Data about approx. 97300 people
 - LetterSampo Finland 31267
 - AcademySampo 23096
 - BiographySampo 21585
 - BookSampo 9109
 - WarSampo 4154
 - ParliamentSampo 2111
 - ArtSampo 1083
 - OperaSampo 950
 - Norssi 701
 - HISTO 535
 - Wikidata 47925
 - ISNI 35583
 - Finnish Wikipedia 32667
 - KANTO 32518
 - Geneanet 30190
 - VIAF 22457
 - Wikitree 7263
 - Geni.com 6050
 - Snellman 3523
 - Edelfelt 3326
 - ULAN 2257
 - ÅboAcademy 1371
- Includes people with an entry in a Sampo project, KANTO, or Finnish Wikipedia



RDF Data Schema

Based on

- Proxy-Provided model
- Named graphs



People, Data Analysis

- Most Renowned People
 - People appearing in 12 or more datasets are mostly well-known Finnish artists (Ferdinand von Wright, Magnus von Wright, Ellen Thesleff, and approx. 300 more from ArtSampo, ULAN, and Edelfelt Letters)
- 15.0% appear only in one datasource
 - 34.4% in two, 13.4% in three, 13.6% in four ...



People, Error Detection

- Errors
 - ACADEMYSAMPO: von Knorring, Karl Henrik (1793–1863)
 - KANTO: Knorring, Carl Henrik von, 1973-1863
- Contradictions
 - Wasenius, Gustaf Valfrid, (1846–1928), error in birth: 3 years
 - 1846: Dataset.ACADEMYSAMPO
 - 1848: Dataset.BIOGRAPHYSAMPO
 - 1846/1848/1849: Dataset.WIKIDATA
 - 1849: Dataset.EDELFEIT
 - 1848: Dataset.KANTO
- (Possible) Duplicates
 - Westzyntius, Ericus Magni, 1744-1787 (KANTO)
 - Westzyntius, Erik, 1743-1787 (KANTO) (different father)
 - Schaumann, Anna, 1859-1928 (KANTO)
 - Schauman, A., 1859-1928 (KANTO) (same occupation)



Organizations

- Data about approx. 55000 organizations
 - KANTO 44613
 - The Names of Finnish Corporate Bodies 40716
 - ISNI 35268
 - Wikidata 8273
 - Wikipedia 7648
 - ParliamentSampo 5852
 - BiographySampo 2554
 - Norssi High School Alumni 2130
 - VIAF 1563
 - AcademySampo 510
 - HISTO 428
 - OperaSampo 134
 - BookSampo 127
 - ULAN 120



Places

- Data about approx. 27500 locations
 - Wikidata 20055
 - LetterSampo Finland 10780
 - BookSampo 6377
 - AcademySampo 4357
 - ParliamentSampo 4190
 - BiographySampo 2416
 - WarSampo 1641
 - YSO places 1630
 - NLS Geographic Names Register 777



Person-place relations

- Data about approx. 191500 relations
 - AcademySampo 80306
 - BiographySampo 37029
 - Finnish Wikipedia 26196
 - ParliamentSampo 17909
 - OperaSampo 16755
 - BookSampo 4681
 - WarSampo 4562
 - ArtSampo 1088
 - LetterSampo Finland 997
 - Generated using AI 939
 - J. V. Snellman Letters 689
 - HISTO 331



Web Portal

The background of the slide is a photograph of a bookshelf filled with books. The image is monochromatic, with a warm, sepia-toned filter applied. The books are of various sizes and thicknesses, with some showing decorative patterns on their spines. The text 'Web Portal' is overlaid on the left side of the image in a bold, black, sans-serif font.

Entry Page

Perspectives

People
Organizations
Places
Relations
Data sources

Search Examples

SampoSampo

"Connecting Everything to Everything Else"

Select a perspective to search and browse the knowledge graph:

- People**
Historical Finnish people
- Organizations**
Organizations, companies, schools, groups etc.
- Places**
Buildings, cities, counties, municipalities, etc.
- Person-place relations**
Search relation between persons and places
- Data sources**
Overview of data sources

Select example searches, visualizations, and linked information

- INSTANCE PAGE OF MIKAEL AGRICOLA
- PLACES RELATED TO C.G.E. MANNERHEIM
- LIFETIMES OF WARSAMPO PEOPLE
- PERFORMANCE VENUES IN OPERASAMPO
- LIFELINES OF FEMALE ARTISTS IN ART SAMPO
- PEOPLE RELATED TO SYMBOLISM BY THEIR WIKIPEDIA PAGES
- PEOPLE RELATED TO THE HITCHHIKER'S GUIDE TO THE GALAXY BY THEIR WIKIPEDIA PAGES

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Person Perspective

Results: 19761 people

Active filters:

REMOVE ALL

Gender: Female

Narrow down by:

Name

Search...

Gender

☐ Male [77350]

☒ Female [19761]

☐ Unknown [192]

Place of Birth

Search...

☐ Unknown [8316]

☐ Helsinki [1680]

☐ Turku [649]

☐ Viipuri [335]

☐ Tukholma [273]

☐ Pietari [236]

☐ Oulu [231]

☐ Vaasa [212]

TABLE

CHARTS

YEARS OF LIVING

MAP

LIFELINES

CSV

SPARQL

SHARE

Rows per page 30 1-30 of 19761

Person Perspective

Facets

Results

Results: 19761 people

Active filters:

REMOVE ALL

Gender: Female

Narrow down by:

Name

Search...

Gender

- ☐ Male [77350]
☒ Female [19761]
☐ Unknown [192]

Place of Birth

Search...

- ☐ Unknown [8316]
☐ Helsinki [1680]
☐ Turku [649]
☐ Viipuri [335]
☐ Tukholma [273]
☐ Pietari [236]
☐ Oulu [231]
☐ Vaasa [212]

TABLE CHARTS YEARS OF LIVING MAP LIFELINES CSV SPARQL SHARE

← Tabs for different views

Rows per page

30

1-30 of 19761

|< < > >|

	Name	Gender	Time of Birth	Place of Birth	Time of Death	Place of Death	Websites
	Thesleff, Ellen (1869-1954)	Female	1869-10-05 ...	Helsinki	1954 ...	Helsinki	BiographySampo ...
	Ullner, Constance (1856-1926)	Female	1856 ...	Helsingfors ...	1926 ...	Helsinki	BiographySampo ...
	Ackté, Aino (1876-1944)	Female	1876 ...	Helsinki	1944 ...	Nummela ...	BiographySampo ...
	Schierbeck, Helene (1862-1946)	Female	1862 ...	Helsinki	1945 ...	Gävle ...	BiographySampo ...



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Person Instance Page

Inconsistencies

Person ⓘ

Agricola, Mikael (noin 1510-1557)

TABLE

WIKIPEDIA EXTRACTS

MAP

EXPORT

Image ⓘ



URI ⓘ

http://ldf.fi/sampo/people/p5571210016405644958

Name ⓘ

Agricola, Mikael (noin 1510-1557)

Preferred labels per proxy ⓘ

^

- Agricola, Michael Olai [BiographySampo](#)
- Agricola, Mikael [BookSampo](#), [LetterSampo](#) [Finland](#), [Wikipedia](#)
- Olai, Michael [Wikidata](#)

Alternative labels per proxy ⓘ

^

- Agricola, Michael [Wikidata](#)
- Agricola, Michael Olavi [Wikidata](#)
- Agricola, Mikael [BiographySampo](#), [Wikidata](#)
- Olavinpoika, Mikael [Wikidata](#)

Gender ⓘ

Male [BiographySampo](#), [BookSampo](#), [LetterSampo](#) [Finland](#), [Wikidata](#), [Wikipedia](#)

Time of birth ⓘ

^

- 1509-12-22 [Wikidata](#)
- 1510 [BiographySampo](#), [BookSampo](#), [LetterSampo](#) [Finland](#), [Wikipedia](#)

Place of birth ⓘ

[Perna](#) [BiographySampo](#), [BookSampo](#), [Wikidata](#)

Time of death ⓘ

^

- 1557 [BiographySampo](#), [LetterSampo](#) [Finland](#)
- 1557-03-30 [Wikidata](#)
- 1557-04-09 [BookSampo](#), [Wikipedia](#)

Place of death ⓘ

^

- Kalanti [BookSampo](#)
- Nykyrka [BiographySampo](#), [Wikidata](#)



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Organization Perspective

Organizations ⓘ				
Results: 55074 organization				
Narrow down by:				
Name ⓘ Search... Location ⓘ ☐ Helsinki [6124] ☐ Suomi [5553] ☐ Tampere [1497] ☐ Turku [1399] ☐ Oulu [815] ☐ Espoo [737] ☐ Jyväskylä [706] ☐ Kuopio [603] ☐ Lahti [432] ☐ Vaasa [425] ☐ Vantaa [361] ☐ Joensuu [355] Data sources ⓘ Number of data sources ⓘ				
TABLE MAP CSV SPARQL SHARE Rows per page 30 1-30 of 55074				
Name ⓘ	Location ⓘ	External web pages ⓘ	Data sources ⓘ	
 Suomen Pankki	Finland	- Akatemiasampo - ISNI - KANTO - Parlamenttisampo - ULAN - Wikipedia	- Biografiasampo - HISTO - KANTO - ParliamentSampo - Suomalaiset yhteisönimet - ULAN - VIAF - Vanhat Norssit semanttisessa webissä	
 Kansallisteatteri	- Finland - Helsinki	- AcademySampo - Akatemiasampo - ISNI - KANTO - KANTO - OperaSampo - Parlamenttisampo - ULAN - Wikipedia	- AcademySampo - Akatemiasampo - Biografiasampo - Biografiasampo - BiographySampo - KANTO - KANTO - Norssi High School Alumni - OperaSampo - Parlamenttisampo	
 Suomen Yhdys-Pankki	Finland ...	AcademySampo ...	AcademySampo ...	



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Place Perspective

Places i

Results: 145 places

Active filters:

Related to person: Mannerheim, Gustaf... x

Related to person: Edelfelt, Albert (... x

Narrow down by:

Name i

Search...

Related to person i

Search...

- ☐ Unknown [17455]
- ☒ Mannerheim, Gustaf (1867-1951) [110]
- ☐ Pajari, Aaro (1897-1949) [57]
- ☐ Kekkonen, Urho (1900-1986) [48]
- ☐ Hallamaa, Reino (1899-1979) [45]
- ☒ Edelfelt, Albert (1854-1905) [42]
- ☐ Hersalo, Niilo Viktor (1895-1979) [40]
- ☐ Strindberg, Sven (1874-1957) [39]
- ☐ Martola, Armas-Eino (1896-1986) [37]
- ☐ Paasilinna, Arto (1942-2018) [37]
- ☐ Idess, Karl Gustaf (1895-1961) [37]

TABLE

MAP

CSV

SPARQL

SHARE

Rows per page

20

1-20 of 145

|< < > >|

Name i	Sampled latitude i	Sampled longitude i	External web pages i	Data sources i
▼ Warsaw	52.2298	21.0118	AcademySampo ...	AcademySampo ...
▼ Chernivtsi	48.2908	25.9344	Wikidata	Wikidata
▼ Gothenburg	57.7075	11.9675	Biografiasampo ...	Biografiasampo ...
^ Ruokolahti	61.2923	28.8158	- AcademySampo - Biografiasampo - BookSampo - Kirjesampo - Maanmittauslaitoksen nimistörekisteri - Parlamenttisampo - Wikidata - YSO-paikat	- AcademySampo - Biografiasampo - BookSampo - Kirjesampo - Maanmittauslaitoksen nimistörekisteri - Wikidata - YSO-paikat
^ Vevey	46.4642	6.8481	- AcademySampo - Biografiasampo - BookSampo - Kirjesampo - Parlamenttisampo - Wikidata	- AcademySampo - Biografiasampo - BookSampo - Kirjesampo - Parlamenttisampo - Wikidata
▼ National Museum of Finland	60.175	24.9315	AcademySampo ...	AcademySampo ...
▼ Estonia	59	26	AcademySampo ...	AcademySampo ...
▼ Latvia	57	25	AcademySampo ...	AcademySampo ...
▼ Seivästä	60.2008	28.9874	Sotasampo	Sotasampo
▼ Suurmäki	61.7643	30.7166	Sotasampo	Sotasampo
▼ Galicia	49.83	24.0142	Kirjesampo ...	Kirjesampo ...
▼ Lüshunkou District	38.8508	121.257	Kirjesampo ...	Kirjesampo ...
▼ Copenhagen	55.6761	12.5689	AcademySampo ...	AcademySampo ...

Person-place Relations

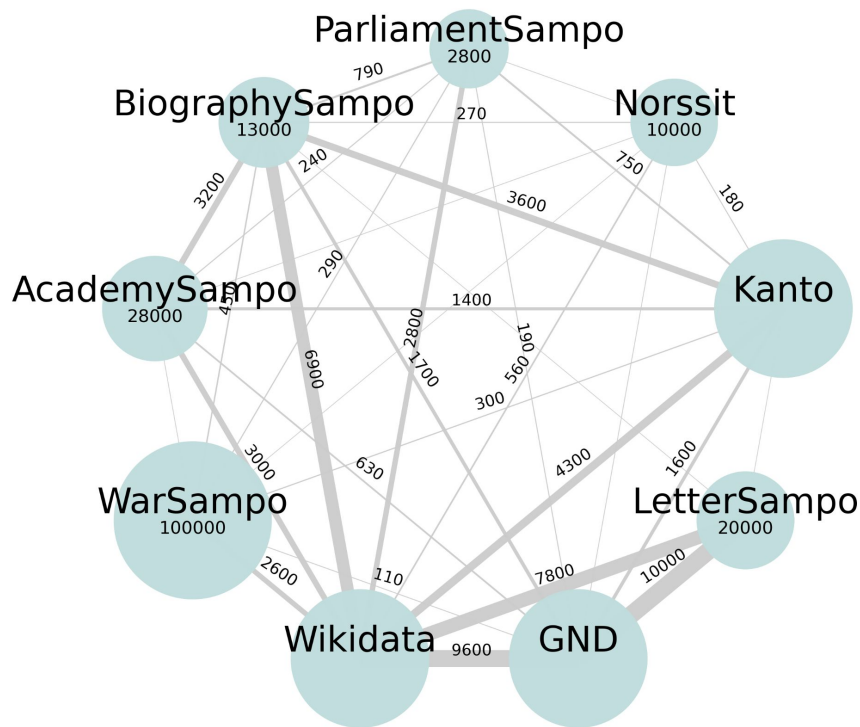
Person-place relations ⓘ				
Results: 191482 relations		TABLE MAP SHARE		
Narrow down by:		Rows per page 30 1-30 of 191482 < > >>		
Person ⓘ	Place ⓘ	Description ⓘ	Relation type ⓘ	
☐ Relander, Sven (1897-1956) [1749]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 4 kirjettä paikasta Kuola vuosina 1837–1842	Kirje lähetetty paikasta	
☐ Ara, Ture (1903-1979) [1244]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 279 kirjettä paikasta Sammatti vuosina 1848–1883	Kirje lähetetty paikasta	
☐ Ingberg, Edvin (1884-1961) [1083]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 9 kirjettä paikasta Partala vuosina 1835–1850	Kirje lähetetty paikasta	
☐ Ekroos, Rurik (1902-1977) [976]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 4 kirjettä paikasta Lohja vuosina 1872–1882	Kirje lähetetty paikasta	
☐ Lindh, Emil (1867-1937) [757]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 9 kirjettä paikasta Turku vuosina 1823–1871	Kirje lähetetty paikasta	
☐ Wohlstrom, Waldemar (1879-1964) [640]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 4 kirjettä paikasta Sortavala vuosina 1828–1841	Kirje lähetetty paikasta	
☐ Wessler (Molander), Lydia (1851-1929) [547]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 701 kirjettä paikasta Kajaani vuosina 1833–1870	Kirje lähetetty paikasta	
☐ Högdahl, Arna (1894-1963) [499]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 4 kirjettä paikasta Kemi vuosina 1841–1842	Kirje lähetetty paikasta	
☐ Mannerheim, Gustaf (1867-1951) [474]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 3 kirjettä paikasta Vesilahti vuosina 1841–1847	Kirje lähetetty paikasta	
☐ Lindh (Gerasimowitsch), Agnes (1872-1952) [460]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 10 kirjettä paikasta Oulu vuosina 1832–1842	Kirje lähetetty paikasta	
☐ Precht, Axel (1860-1931) [455]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 5 kirjettä paikasta Kuhmo vuosina 1835–1857	Kirje lähetetty paikasta	
☐ Snellman, Johan Vilhelm (1806-1881) [405]	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 97 kirjettä paikasta Laukon kartano vuosina 1824–1858	Kirje lähetetty paikasta	
	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 12 kirjettä paikasta Haarjärvi vuosina 1864–1872	Kirje lähetetty paikasta	
	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 10 kirjettä paikasta Uhtua vuonna 1836	Kirje lähetetty paikasta	
	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 3 kirjettä paikasta Kattila vuonna 1844	Kirje lähetetty paikasta	
	Lönnrot, Elias (1802-1884)	Henkilö Elias Lönnrot on lähettänyt 71 kirjettä		

Kiitos

<https://samosampo.fi>



Linkage between Datasets



People to/from Wikidata

- Overlap between Sampo datasets and Wikidata:

○ ('BiographySampo', 'Wikidata')	8333/21576 = 38.6%
○ ('BookSampo', 'Wikidata')	5293/9638 = 54.9%
○ ('AcademySampo', 'Wikidata')	3584/23105 = 15.5%
○ ('ParliamentSampo', 'Wikidata')	2094/2094 = 100.0%
○ ('ArtSampo', 'Wikidata')	2020/2435 = 83.0%
○ ('Warsa', 'Wikidata')	1710/1943 = 88.0%
○ ('Norssi', 'Wikidata')	343/2118 = 16.2%
○ ('OperaSampo', 'Wikidata')	225/373 = 60.3%

- e.g. $8333/21576 = 38.6\%$ means
#links between the datasets/#person entries in Sampo data = %overlap

