







NameSampo Workbench for Toponomastic Research

Digital Humanities in Action: Sampo Model and Portals for Cultural Heritage, 29.10.2020

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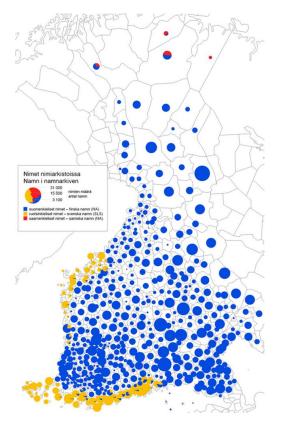
Esko Ikkala Semantic Computing Research Group (SeCo), Aalto University, <u>https://seco.cs.aalto.fi</u> esko.ikkala@aalto.fi

NameSampo Project 2018-2019

- Exploring new ways to study place names in a digital environment
- Collaboration of three partner organizations
 - O Data provider (Institute for the Languages of Finland)
 - Helinä Uusitalo
 - O Digital (HELDIG, University of Helsinki and Aalto University)
 - Eero Hyvönen
 - Esko Ikkala
 - Jouni Tuominen
 - O Humanities (Department of Finnish, Finno-Ugrian and Scandinavian Studies, University of Helsinki)
 - Terhi Ainiala
 - Tiina Aalto
 - Jaakko Raunamaa



Place names in NameSampo



Original place name collections in The Institute for the Languages of Finland

- Based on oral sources, collected in the field from Finnish area and the ceded Karelia, a total of about 2.7 million place names
- Finnish, Swedish and Sami place names. In addition, there are some personal names and common nouns associated with place names.
- Place names are located on maps. Positioning accuracy is expressed as an exact location, the map grid, or several map grids, or the location is not mentioned at all (depending on whether the collector had a map in use.)

Place names in NameSampo

- Digitization of collections: the conversion of the main information on the entry slips (next slide) such as place name, geographical reference, place type, municipality, collector and collection year into database format and indicating the specific locations as coordinates (WGS 84)
 - -> www.nimiarkisto.fi

The same digitized database is available in NameSampo.

Research possibilities: Valuable information for onomasticians, linguists, historians, archaeologists. Especially in an onomastics study, the database enables to research parts of a name (e.g. suffixes) and place names in a specific area.



An example of an original place name slip with location of the place





- The name in standard Finnish ("Badgerstone")
- The form in local dialect (and its inflectional form)
- Location (municipality, village and reference to the map)
- Place type and other information about the name and the place (by the stone there is a badger's burrow)
- Municipality, collector's name and year of collection

Research Questions

To answer toponomastic research questions in a digital environment, one should be able to:

- combine data from multiple registers
- filter the search results (e.g., by place type or by broader area)
- split place names into an appellative specifier and a generic part
- produce distribution maps without clustering the markers
- create charts based on the search results
- use many kinds of historical and current background maps
- export the data for further analysis, e.g., with GIS or statistical software

Creating Linked Data Infrastructure

- Names Archive (Institute for Languages of Finland)
 - 2 300 000 place entries
 - o nearly 15 000 place types
- The Place Name Register (National Land Survey of Finland)
 - 800 000 place entries
 - 153 place types

Develop an ontology for classification of geographic features together with onomastic researchers







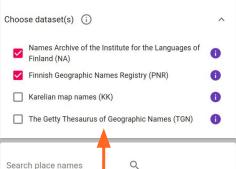






NameSampo Portal for Studying Place Names

Search by area []



Combine data from multiple registers

NameSampo: A Workbench for Toponomastic Research

NameSampo is a web service for searching and studying place names. The search results can be viewed as a table, on maps, and as statistical distributions. Historical and current background maps are provided.

Start by choosing source dataset(s) and input a place name on the search field. Alternatively you can search by area.









Choose dataset(s) (i) ^ Names Archive of the Institute for the Languages of Finland (NA) Finnish Geographic Names Registry (PNR) Karelian map names (KK) The Getty Thesaurus of Geographic Names (TGN)

Search place names Q Search by area [] Federated text search

| Geographical search

NameSampo: A Workbench for Toponomastic Research

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Start by choosing source dataset(s) and input a place name on the search field. Alternatively you can search by area.







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STATISTICS

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Institute for the Languages of Finland KOTIMAISTEN KIELTEN KESKUS

Place names

starting with

(Finnish slang

word for "man")

☐ Karelian map names (KK)

Search place names

Search by area

Narrow down by:

Results: 2148

Name (i)

Type (i)

Area (i)

Base (i)

Year (i)

Source (i)

Modifier (i)

äijä*

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DOWNLOAD



Finnish Geographic Names Registry (PNR)

The Getty Thesaurus of Geographic Names (TGN)

Q

Names Archive of the Institute for the Languages of

TABLE

Type

pelto

pelto

pelto

pelto

pelto

pelto

pelto

pelto

pelto

virtavesi

metsäalue

metsäalue

niitty tai laidun

muu maastopai...

UNIVERSITY OF HELSINKI

niitty tai laidun

virtavesi

niitty tai laidun

niitty tai laidun

muu vesistöpai...

^

Name

<u>Äijäkorpi</u>

Äijäkytö

<u>Äijänpelto</u>

<u>Äijäpelto</u>

<u>Äijäpelto</u>

Äijänpelto 💿

Äijänniitty 0

<u>Äijänoja</u>

Äijänniska

<u>Äijänoja</u>

<u>Äijänluhta</u>

<u>Äijänmetsä</u>

Äijänaho 💿

<u>Äijänaho</u>

Äijänkytö 0

<u>Äijänahonhauta</u>

V

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<u>Äijänojankappale</u>

Äijäkorven Alinenala

<u>Äijänpääviikinapaja</u>

0

CLUSTERED MAP

Area -

Ahlainen

Ahlainen

Ahlainen

Ahlainen

Ahlainen

Ahlainen

Ahlainen

Aitolahti

Aitolahti

Akaa

Akaa

Akaa

Akaa

Alahärmä

Alahärmä

Alajärvi

Alajärvi

Alaiärvi

Alajärvi

9

MAP

Äijäkorven Alinen ala

Base

korpi

kvtö

pelto

apaja

pelto

pelto

pelto

noja

jänniitty

kappale

luhta

metsä

aho

aho

hauta

iänkytö

Helsinki Centre for Digital Humanities

Modifier

Äijä

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Äijän

Äijä

Äijä

Äijän

Äi

Äijä

Äijänojan

Äijän

Äijän

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Äi

Äiiänahon

Äijänpääviikin

10

HEATMAP

Source

NA

NA.

NA

PNR

NA

NA

NA

NA

NA

NA.

Year

1986

1986

1986

1963

1963

1986

1967

1963

1963

1950

1950

1950

1957

1984

1956

1965

1956

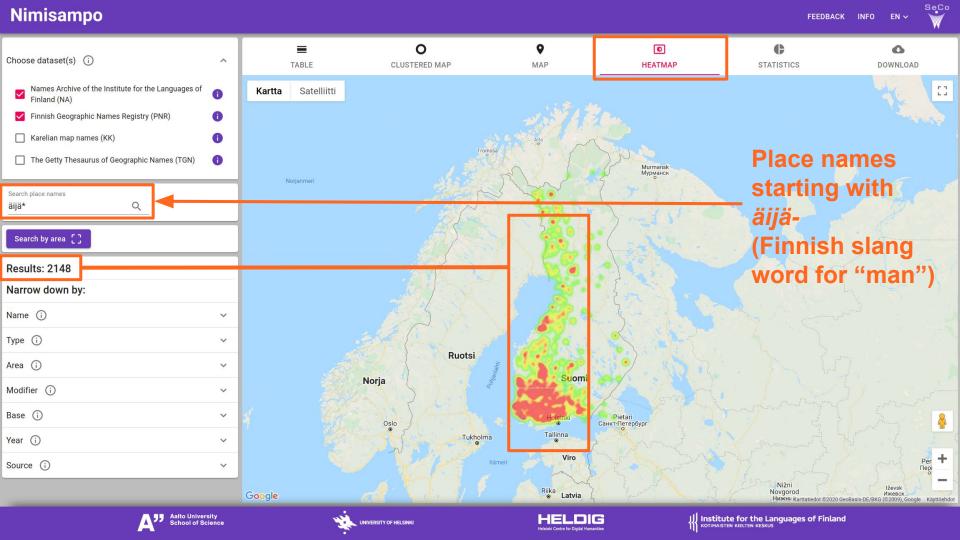
1964

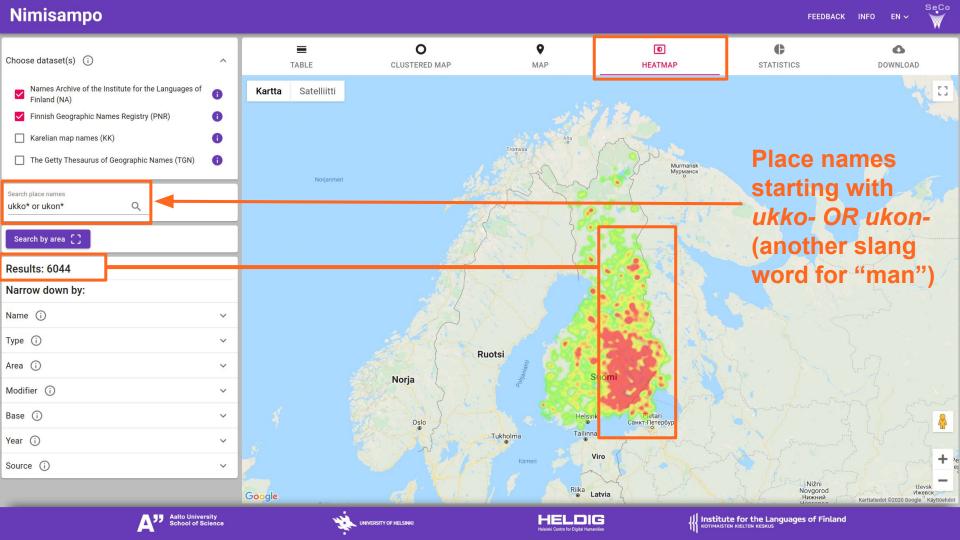
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Choose dataset(s) (i)





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Nimisan

Kannas [2]

☐ Kivi [101]

Kohouma [900]

Kohoumaryhmä [17]

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Modifier

Ukonmurron Iso

Ukkorukanrönän

Ukonmurron Pik... saari

UKUII

Ukon

Ukon

CLUSTERED MAP

Area

THKIIITIITIKI

Ylikiiminki

Ylikiiminki

Ylämaa

Ylöiärvi

Ylöjärvi

MAP

Base

Kakku

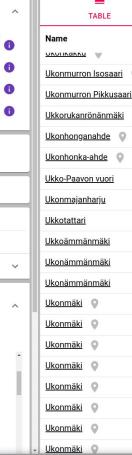
saari

mäki

honganahde

honka-ahde

Choose dataset(s) (i)
Names Archive of the Institute for the Languages o Finland (NA)
Finnish Geographic Names Registry (PNR)
☐ Karelian map names (KK)
☐ The Getty Thesaurus of Geographic Names (TGN)
Search place names ukko* or ukon* Q
Search by area []
Results: 6044
Narrow down by:
Name (i)
Type (i)
Type ① Search



TABLE

0

Type -

копошна

kohouma

kohouma

kohouma

kohouma

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HEATMAP

Source

INA

NA

NA

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<u>NA</u>

Year

190/

1957

1957

1962

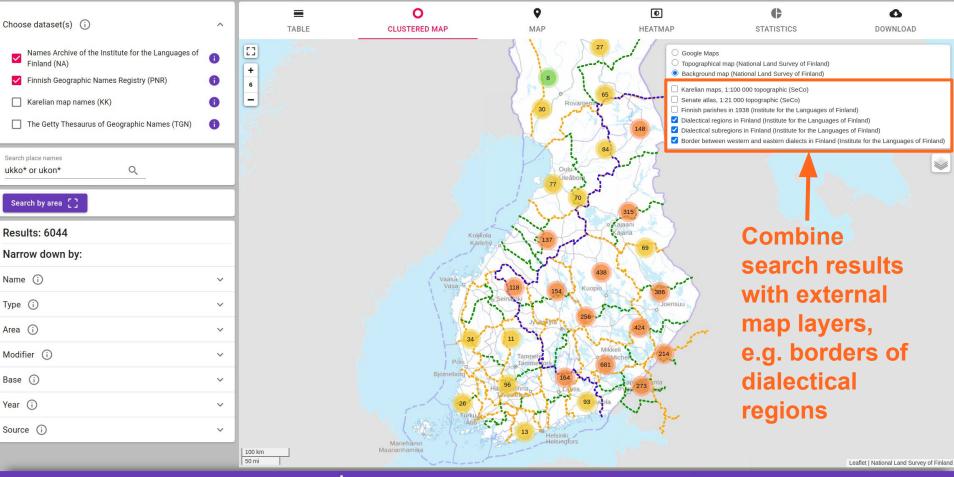
1953

1969

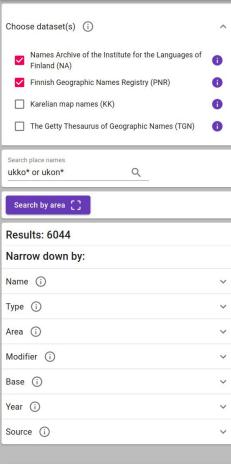
STATISTICS

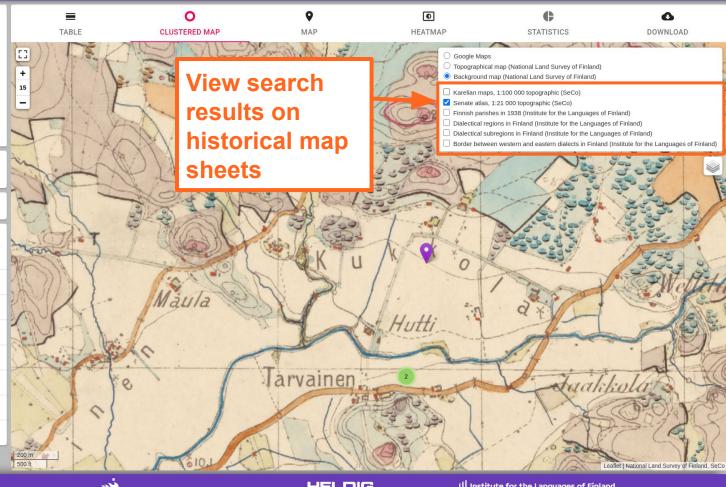
Results from





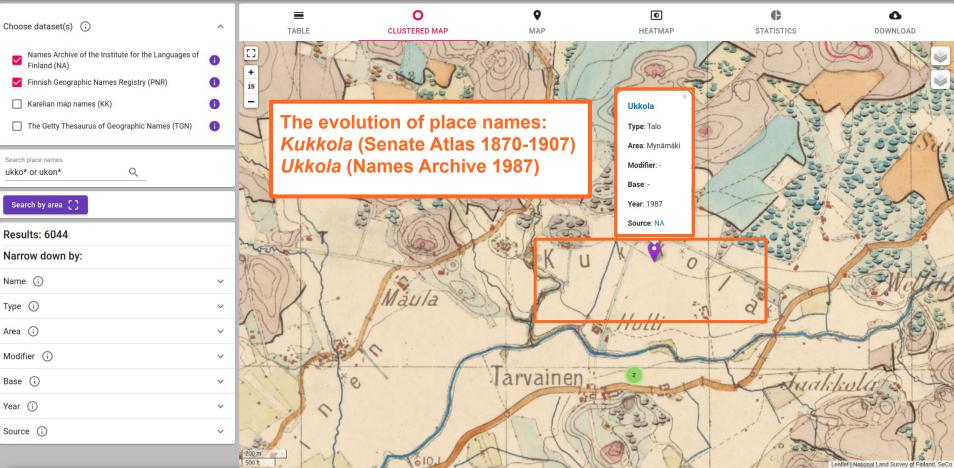




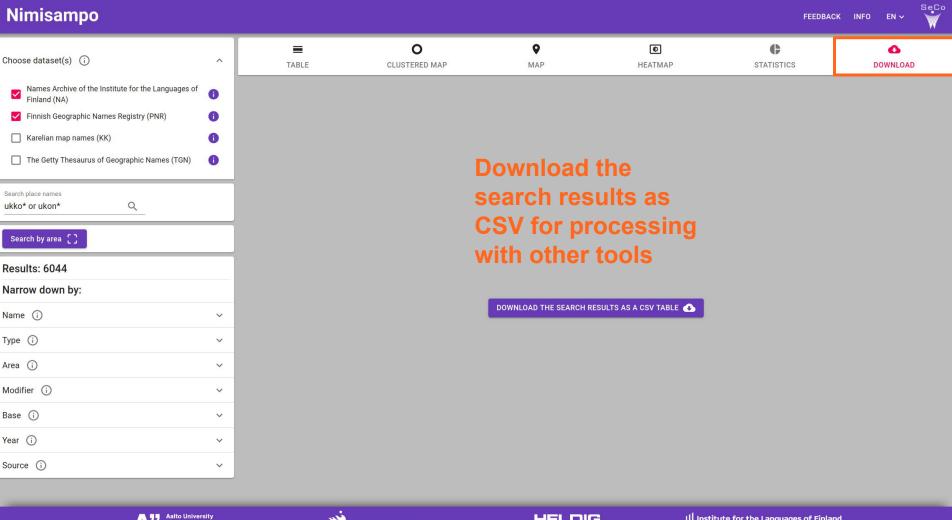


















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Ukkola

Ukonmurronkangas

http://ldf.fi/kotus-names-archive/Q5009783

http://ldf.fi/kotus-names-archive/Q5009785

http://ldf.fi/kotus-names-archive/Q5018308

http://ldf.fi/kotus-names-archive/Q5018310

http://ldf.fi/kotus-names-archive/Q5037049

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63.0609807301867

63.0599147821667

63.1513749016378

Thank you! More information:

- Project homepage
 - seco.cs.aalto.fi/projects/nimisampo/en
- NameSampo portal
 - o <u>nimisampo.fi/en</u>
 - source code: <u>github.com/SemanticComputing/nimisampo.fi</u>
- Data services on Linked Data Finland platform
 - Kotus Names Archive: <u>ldf.fi/dataset/kotus-names-archive</u>
 - Finnish Geographic Names Registry: <u>ldf.fi/dataset/pnr</u>
 - o Karelian map names 1922-1944: <u>ldf.fi/dataset/warsa</u>
- Historical map sheets
 - mapwarper.onki.fi