WE ♥ MAPS

INTERNATIONAL MAP YEAR 2015–2016

PISTEMÄISTEN AINEISTOJEN VISUALISOINTI KARTTA-MASHUPEILLA

Jari Korpi 30.3.2016

KARTTA-MASHUP

Tutkimusstrategia:

Tutkitaan pistemäisiä symboleja

Ei tiettyä sovellustarkoitusta

Ihmisen havaintokyvyn näkökulmasta

Hyödynnetään kartografian ulkopuolisia tuloksia ja suoritetaan käyttäjätestauksia

Explloratiivinen käyttö

Vähän kohteita

Korostus

Symbolin suunnittelu

Ruuhkan-hallinta

Paljon kohteita

Esittävä käyttö
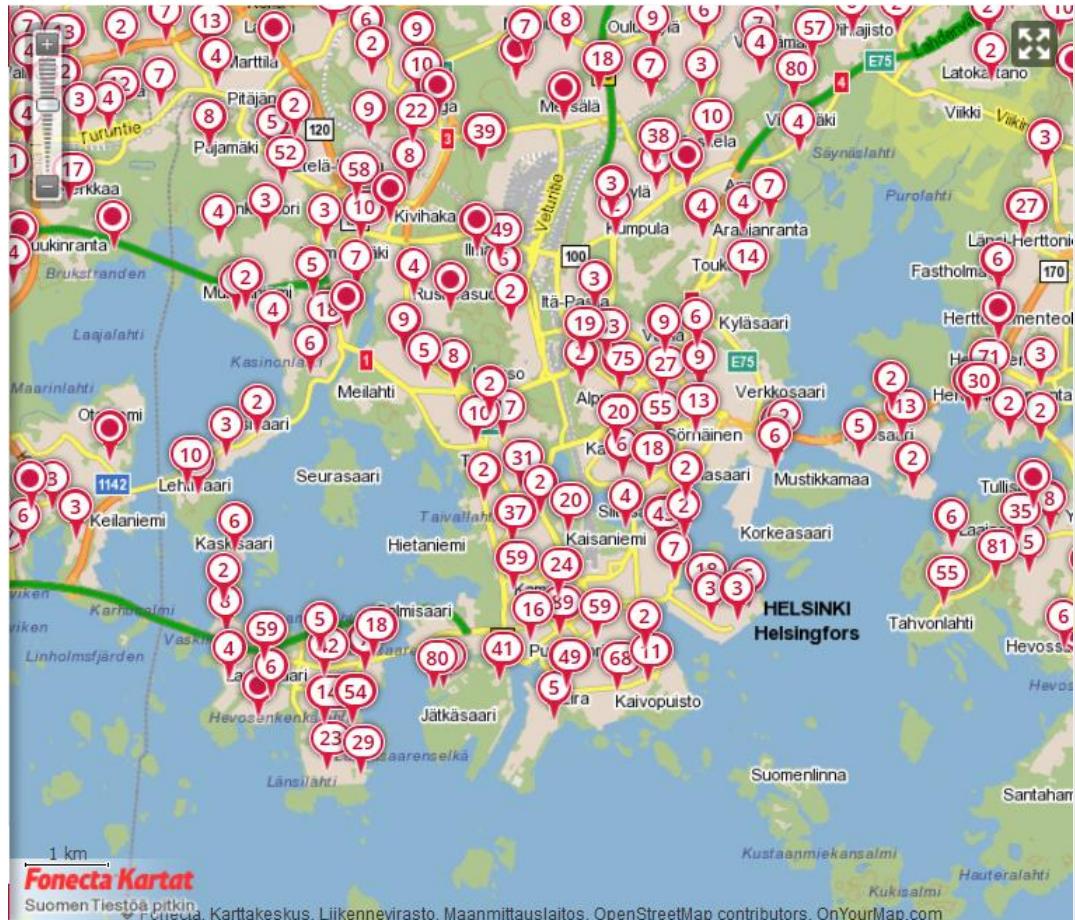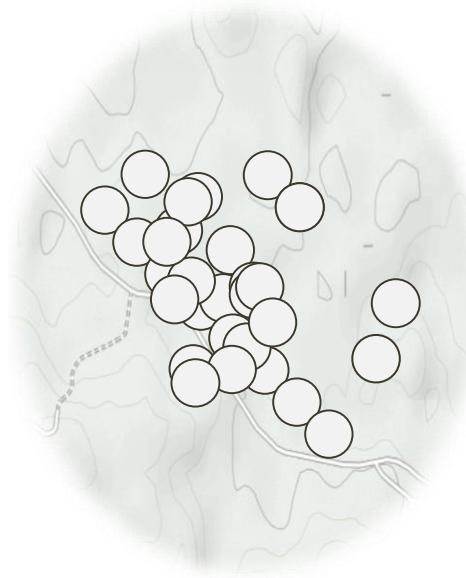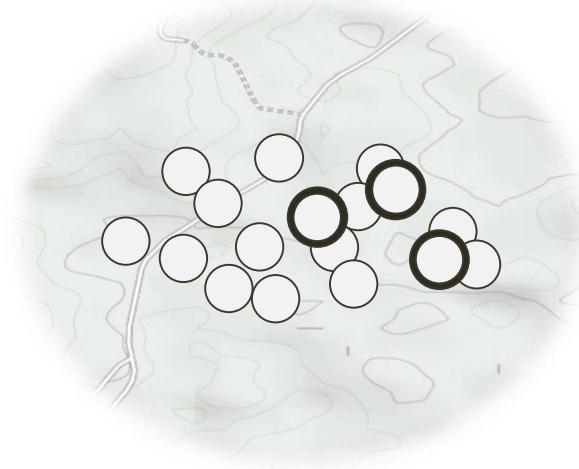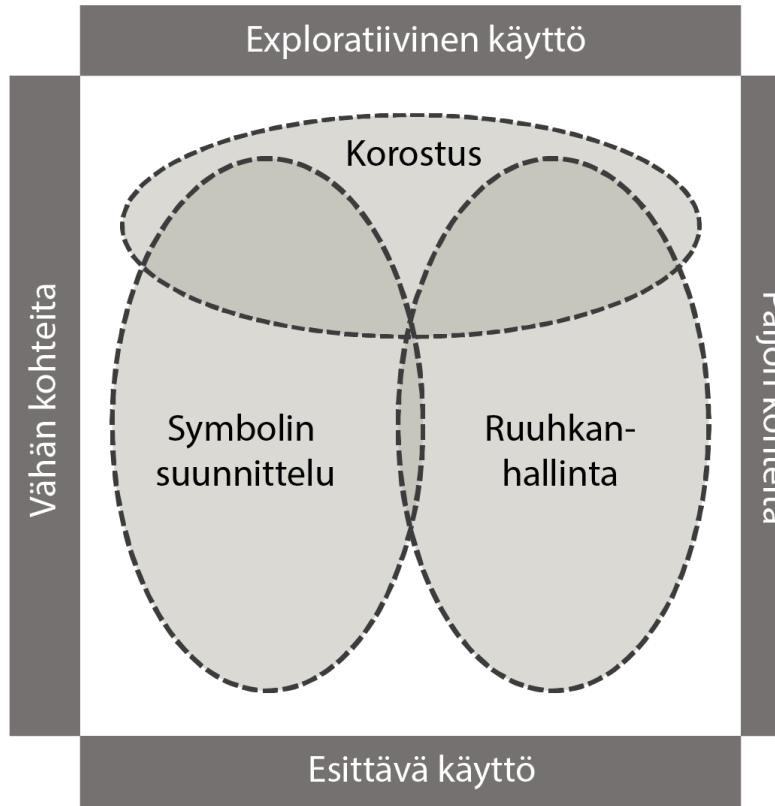
PIKTOGRAFISET SYMBOLIT

Kysymys 1:
Mitkä ovat symbolien yleiset laatutekijät?

Kysymys 2:
Miten kulttuuri vaikuttaa symbolien tulkintaan?
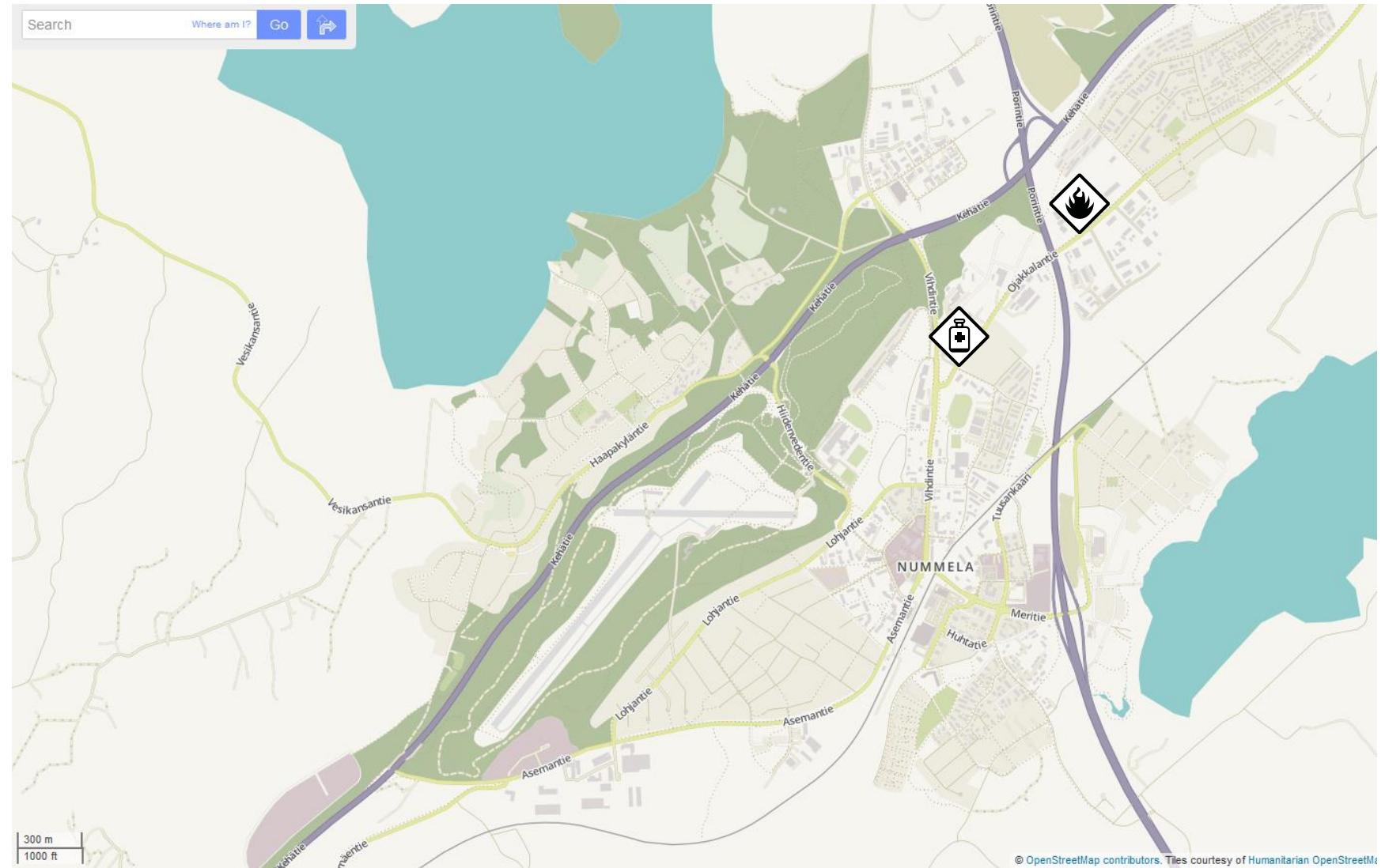
KARTOGRAFIAN ULKOPUOLELLA
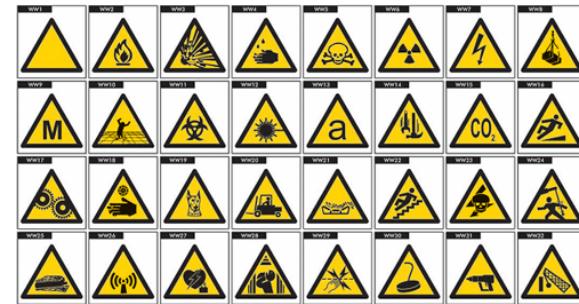
SYMBOLIEN LAATUTEKIJÄT

Qualities of individual symbols

Graphic

	poor	good	
Simplicity			

(cultural services)

	poor	good	
Clarity			

(industry)

	poor	good	
Visibility			

(industry)

	poor	good	
Aesthetic appeal			

(educational services)

Semantic

	poor	good	
			Concreteness

(transportation)

	poor	good	
			Semantic closeness

(educational services)

	poor	good	
			Familiarity

(educational services)

	poor	good	
			Acceptability

(transportation)
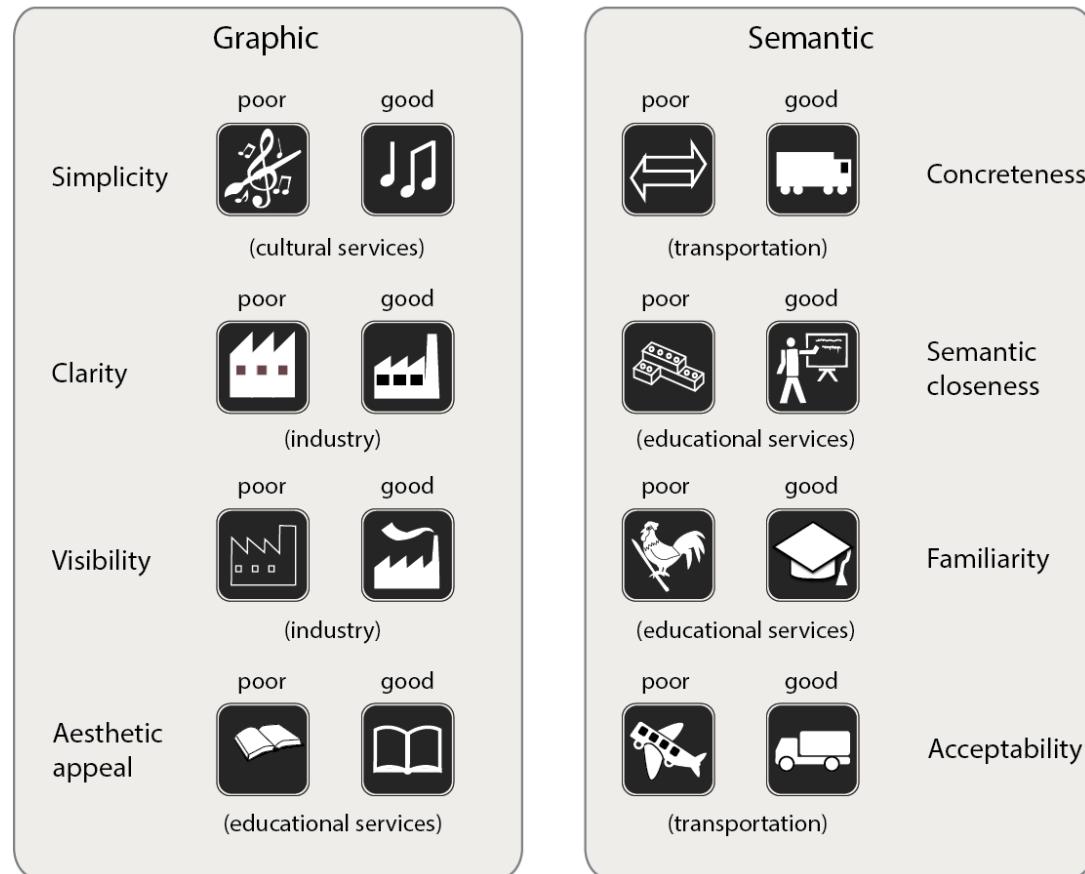
Qualities of symbol sets

	poor	good
Consistency		

	poor	good
Distinctiveness		

KÄYTTÄJÄTESTAUS

Symbolien tulkinta

For each of the meanings choose the symbol that best represents it. Write the letter of the symbol in front of the meaning. As you can see there are some spare symbols in the set. You can write the same letter in several spots if you want. Press the next-button after you have answered. This is page 4/8.

These symbols represent incidents.

___ Environmental

___ Geologic

___ Military

___ Fire

___ Health

___ Mine

___ Explosion

a) b) c) d)

e) f) g) h)

i) j) k) l)

Symbolien suunnittelu

Agriculture and forestry   Commercial services

Industry   Environmental care

Administrative services   Cultural services

Social services   Health services

KULTTUURIN VAIKUTUS SYMBOLIEN TULKINTAAN


Tracks of cultural influence
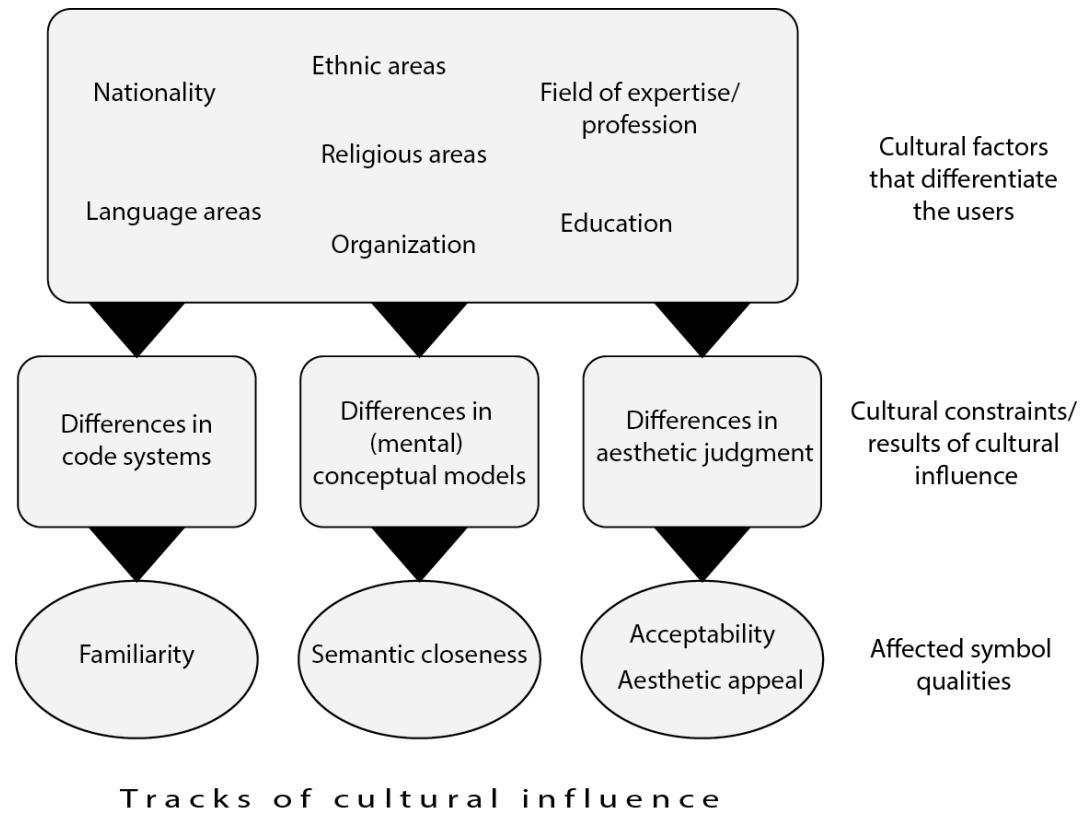
RUUHKAN HALLINTA

Kysymys 3:
Kuinka paljon ruuhkautumista symbolit sietävät?

Kysymys 4:
Millä menetelmillä ruuhkaa voi hallita eri tilanteissa?
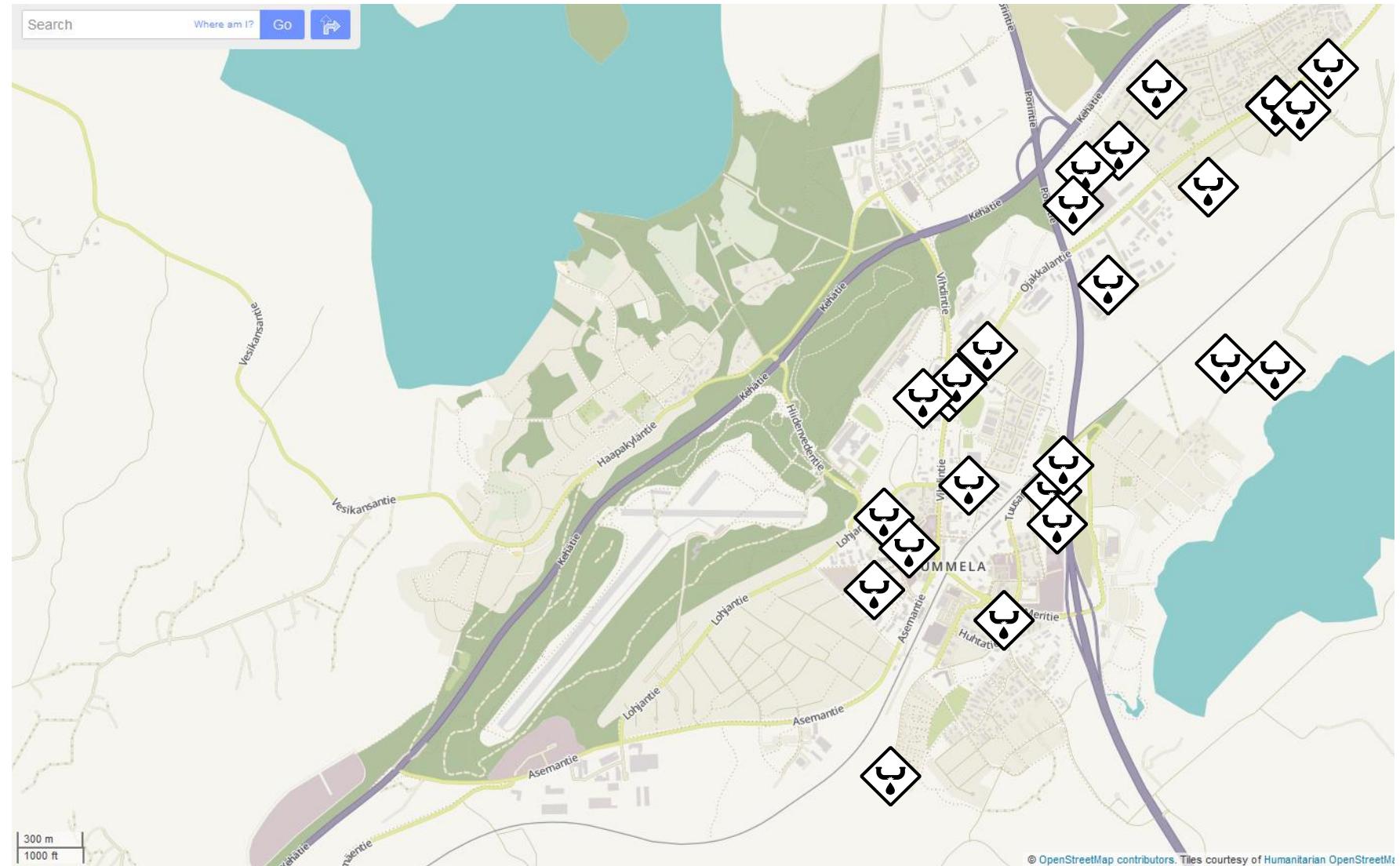
KARTOGRAFIAN ULKOPUOLELLA

KÄYTTÄJÄTESTAUS
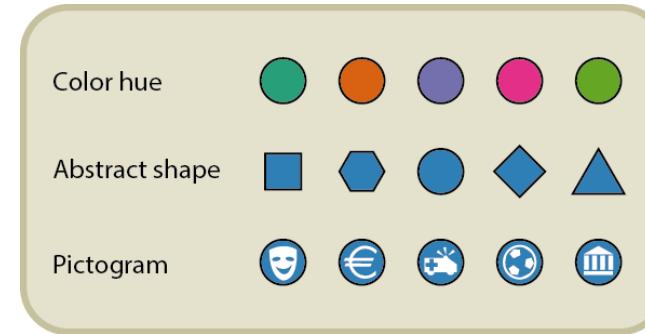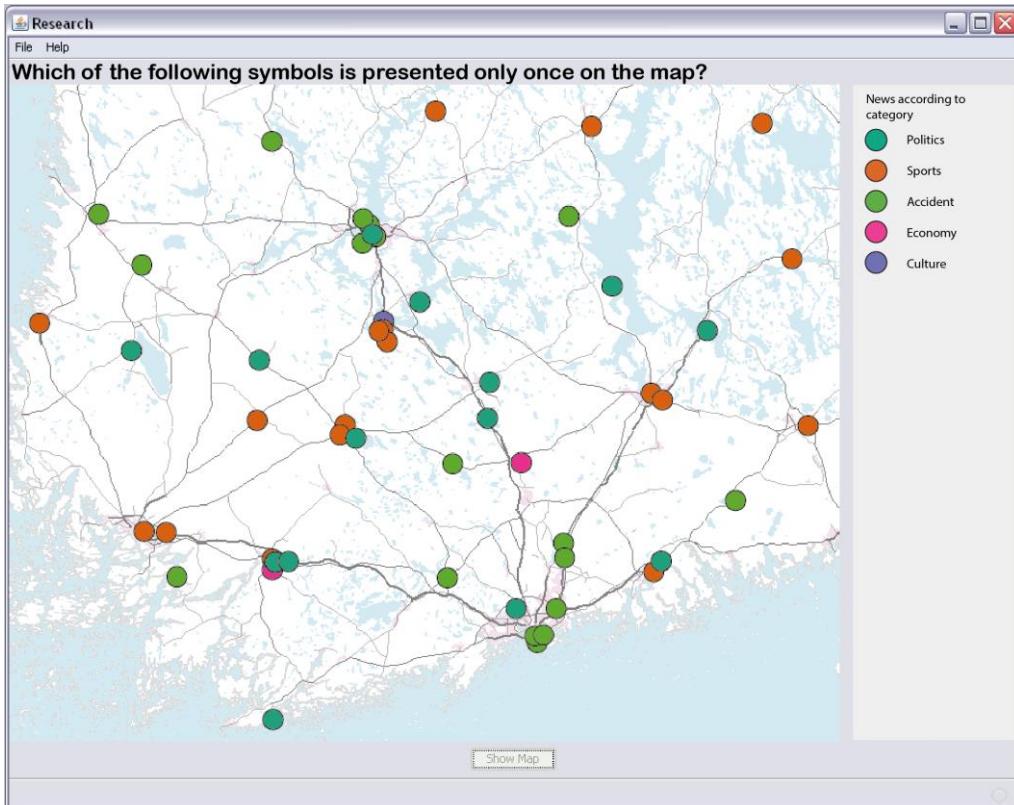
RUUHKANHALLINTAMENETELMIEN SOVELTULTUVUUS

	Selection	Refinement	Displacement	Aggregation	Typification	Symbolization	Spatial distortion	Animation
Reduces complexity	yes	yes	partially	yes	mainly	mainly	partially	no
Avoids hidden symbols	partially	partially	yes	yes	yes	partially	partially	yes
Preserves spatial information	partially	yes	partially	partially	partially	yes	mainly	yes
Can be localized	mainly	partially	yes	yes	mainly	mainly	yes	partially
Is scalable	yes	yes	partially	yes	partially	partially	partially	no
Is controllable	partially	partially	partially	partially	no	partially	mainly	mainly
Can show attribute values	yes	yes	yes	no	yes	yes	yes	yes
Can access individual symbols	partially	no	yes	partially	partially	yes	partially	partially
Improves aesthetic quality	mainly	mainly	yes	mainly	yes	yes	mainly	mainly
Preserves logical hierarchy	yes	partially	yes	no	mainly	yes	no	partially

SYMBOLIEN KOROSTUS

Kysymys 5:

Mitkä ovat toimivimmat ratkaisut korostuksen visualisoimiseksi?
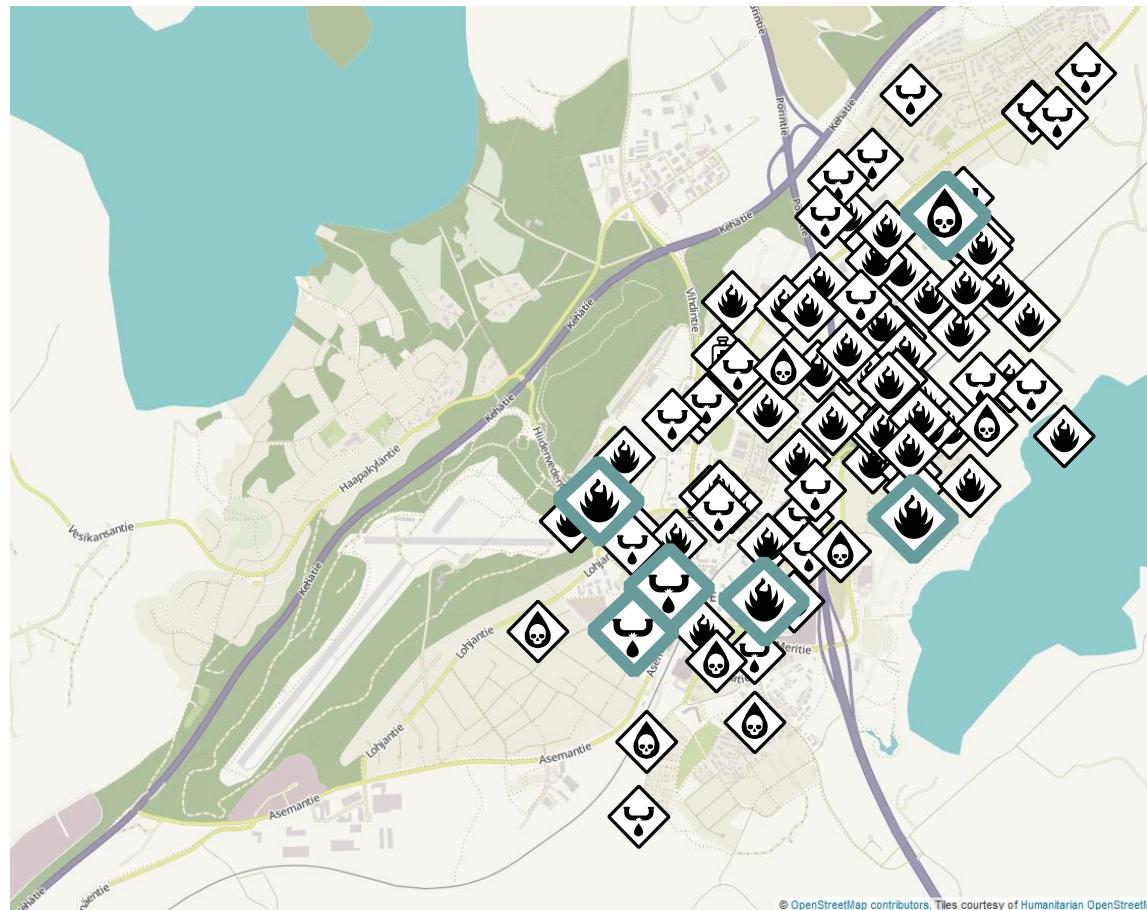
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6450	6450S0002	16 su	90	10	2
6450	6450S0002	20 ma	90	11	2
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6860	6860S0002	16 pe	90	11	2
6860	6860S0002	16 pe	90	11	2
6860	6860S0002	17 ti	90	11	2
6860	6860S0002	17 pe	90	11	2
6860	6860S0002	15 ke	90	11	2
6860	6860S0002	22 ti	90	11	2
6860	6860S0002	7 su	90	11	2
6860	6860S0002	19 to	90	11	2
6860	6860S0002	7 pe	90	11	2
6860	6860S0002	6 ma	90	11	2
6620	6620S0002	7 to	90	11	2
6620	6620S0002	9 ma	90	10	2
6620	6620R0000	4 la	90	11	2
6450	6450S0002	22 la	90	11	2
6450	6450S0002	19 ke	90	11	2
6860	6860S0002	3 su	90	11	2
6620	6620S0002	6 ke	90	11	2
6010	6010S0002	16 la	90	11	2
6620	6620S0002	9 pe	90	11	2
6620	6620S0002	0 pe	90	11	2
6620	6620S0002	14 su	90	11	2
6620	6620S0002	8 ma	90	10	2
6620	6620S0002	17 ke	90	11	2
6620	6620S0002	11 la	90	11	3
6620	6620S0002	17 su	90	10	2
6010	6010S0002	22 la	90	11	2
6010	6010S0002	14 to	90	11	2
6450	6450R0000	14 ti	90	11	2
6450	6450S0002	7 ma	90	11	2

26.8.   8.10.
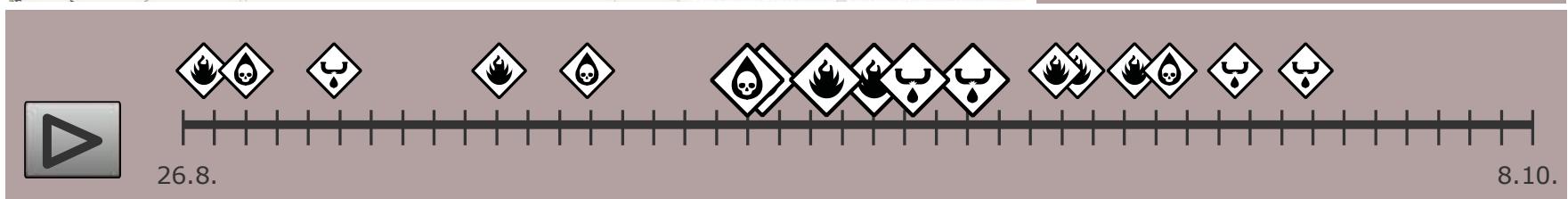
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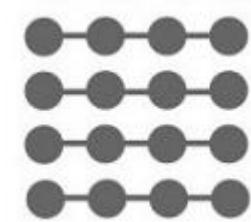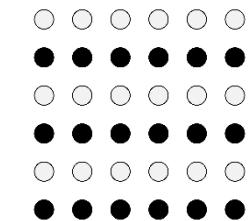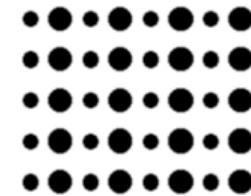
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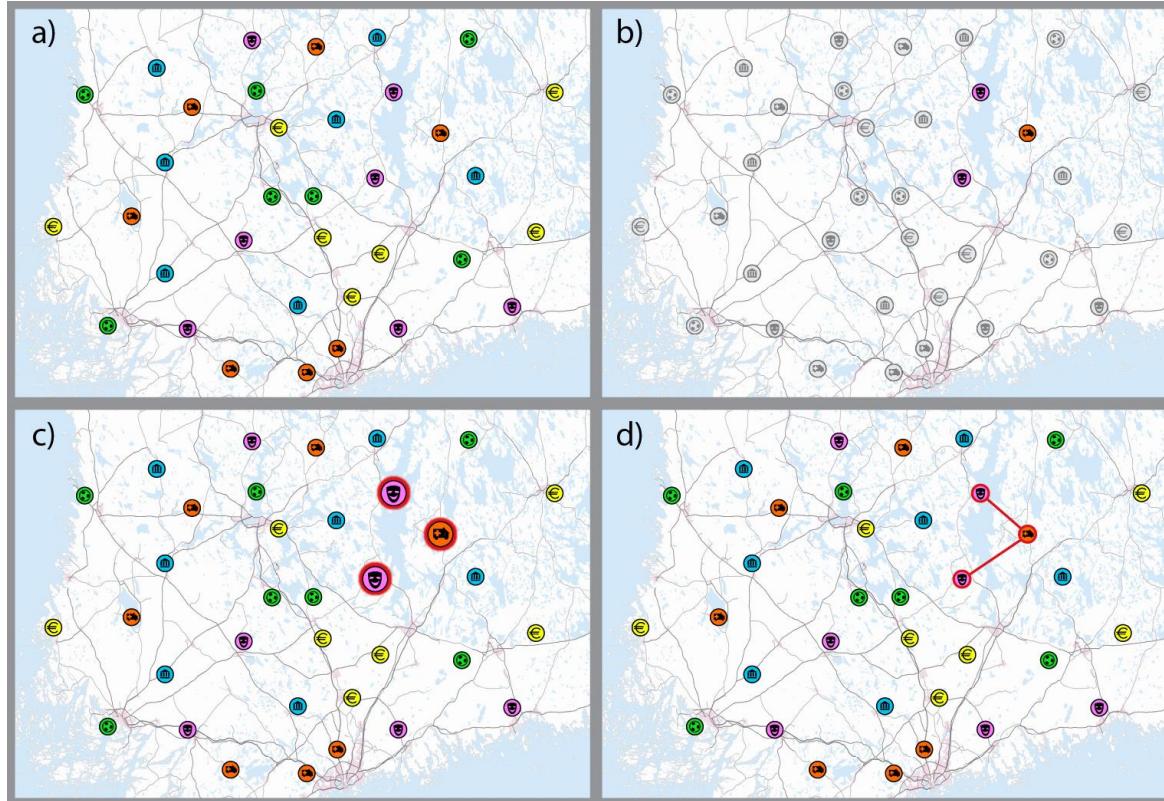
KIITOS

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