



Poka & automaattinen annotointi

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<http://www.seco.tkk.fi>

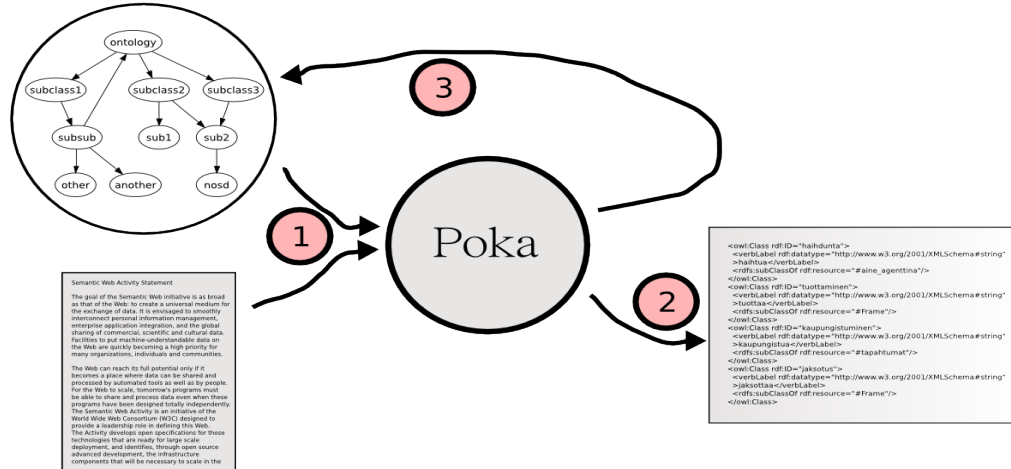


- Semanttinen Web: datan **uudelleenkäyttö** ja **integrointi**
 - toteutus: ontologiakielet: RDF, OWL, SKOS...
- Annotointi: informaation kuvailu ontologian käsitteillä
 - ontologia ~ asiasanasto, jonka *termein* sisältöä kuvataan
 - *termi* syytä ymmärtää väljästi: yleiskäsitteiden lisäksi esim. *aikamääreet, paikat ja henkilöt*
 - ontologian avulla yksikäsitteinen kuvaus dokumenteille
 - datan uudelleen käyttö ja integrointi helpottuu
- Automaattinen annotointi
 - kuinka tuottaa aineiston kuvailua nopeasti?



- (ontologiap.) automaattinen annotointi ~ tiedon eristäminen
 - erityispiirre: dataorientoituneisuus
 - » **olemassaolevan datan hyödyntäminen**
 - » eristimen yleinen toimintamalli: 1) ontologia ja dokumentti sisään, 2) annotaatiot ulos ja 3) ontologia ajan tasalle

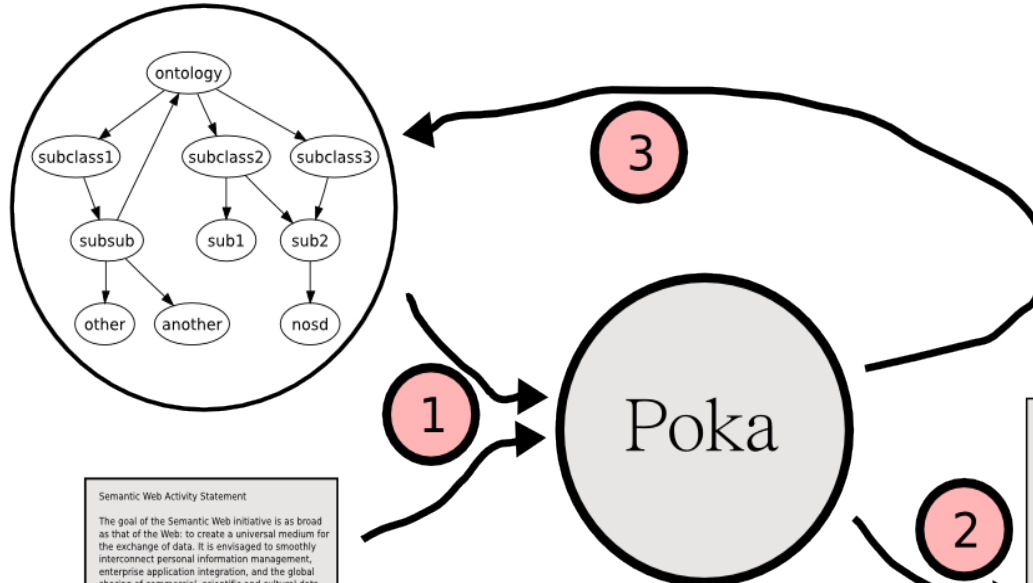
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 - » eristimen yleinen toimintamalli: 1) ontologia ja dokumentti sisään, 2) annotaatiot ulos ja 3) ontologia ajan tasalle (*populointi*)



Poka



- 1) ontologia ja dokumentti sisään,
- 2) annotaatiot ulos,
- 3) ontologia ajan tasalle



Semantic Web Activity Statement

The goal of the Semantic Web initiative is as broad as that of the Web: to create a universal medium for the exchange of data. It is envisaged to smoothly interconnect personal information management, enterprise application integration, and the global sharing of commercial, scientific and cultural data. Facilities to put machine-understandable data on the Web are quickly becoming a high priority for many organizations, individuals and communities.

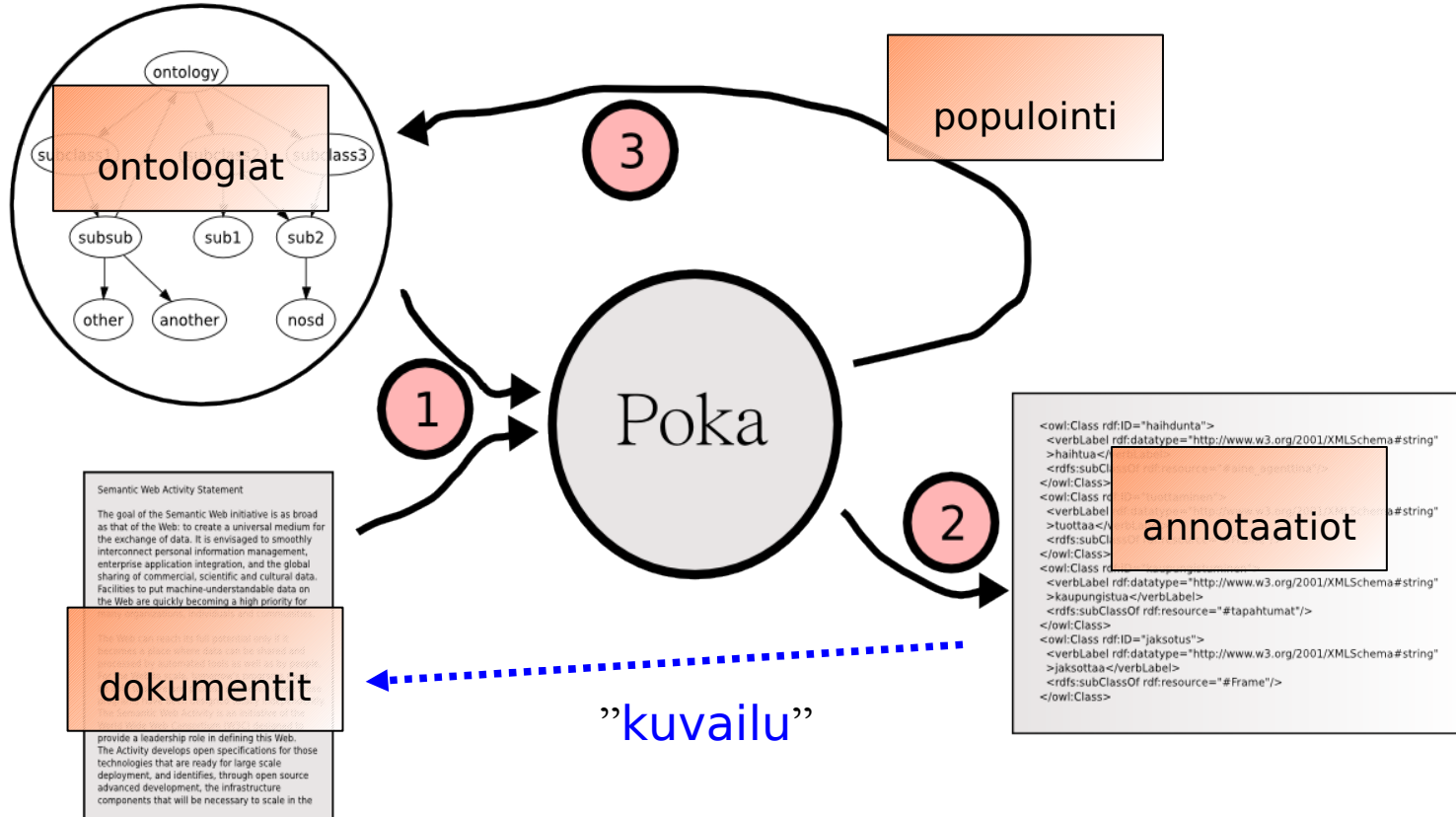
The Web can reach its full potential only if it becomes a place where data can be shared and processed by automated tools as well as by people. For the Web to scale, tomorrow's programs must be able to share and process data even when these programs have been designed totally independently. The Semantic Web Activity is an initiative of the World Wide Web Consortium (W3C) designed to provide a leadership role in defining this Web. The Activity develops open specifications for those technologies that are ready for large scale deployment, and identifies, through open source advanced development, the infrastructure components that will be necessary to scale in the

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Poka: toimintamallit



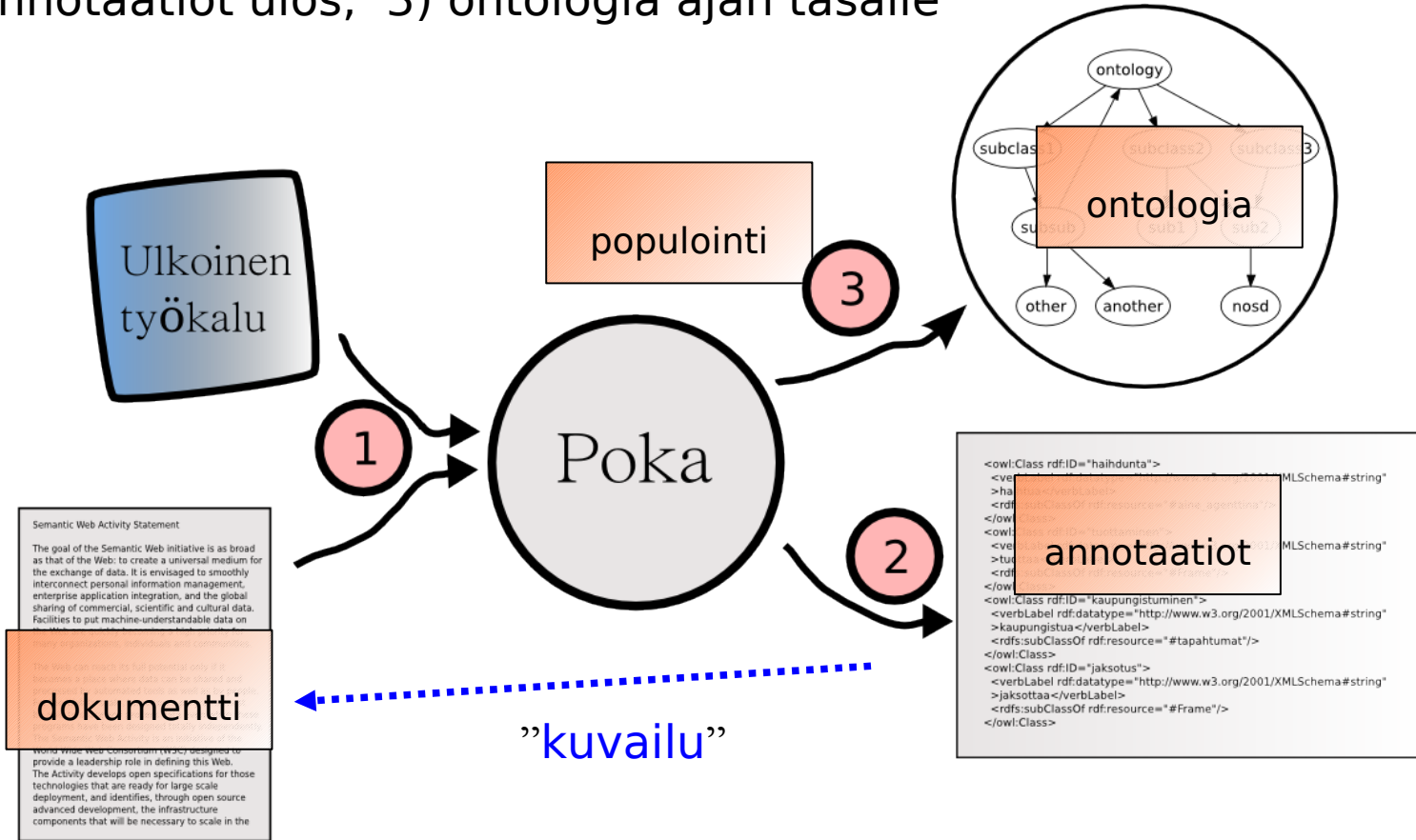
- 1) ontologia ja dokumentti sisään,
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Poka: toimintamallit



- 1) ontologia **eristystyökalu** ja dokumentti sisään,
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The goal of the Semantic Web Initiative is as broad as that of the Web: to create a universal medium for the exchange of data. It is envisaged to smoothly interconnect personal information management, enterprise application integration, and the global sharing of commercial, scientific and cultural data. Facilities to put machine-understandable data on the Web can result not just potentially only if a language is chosen where data can be shared and processed.

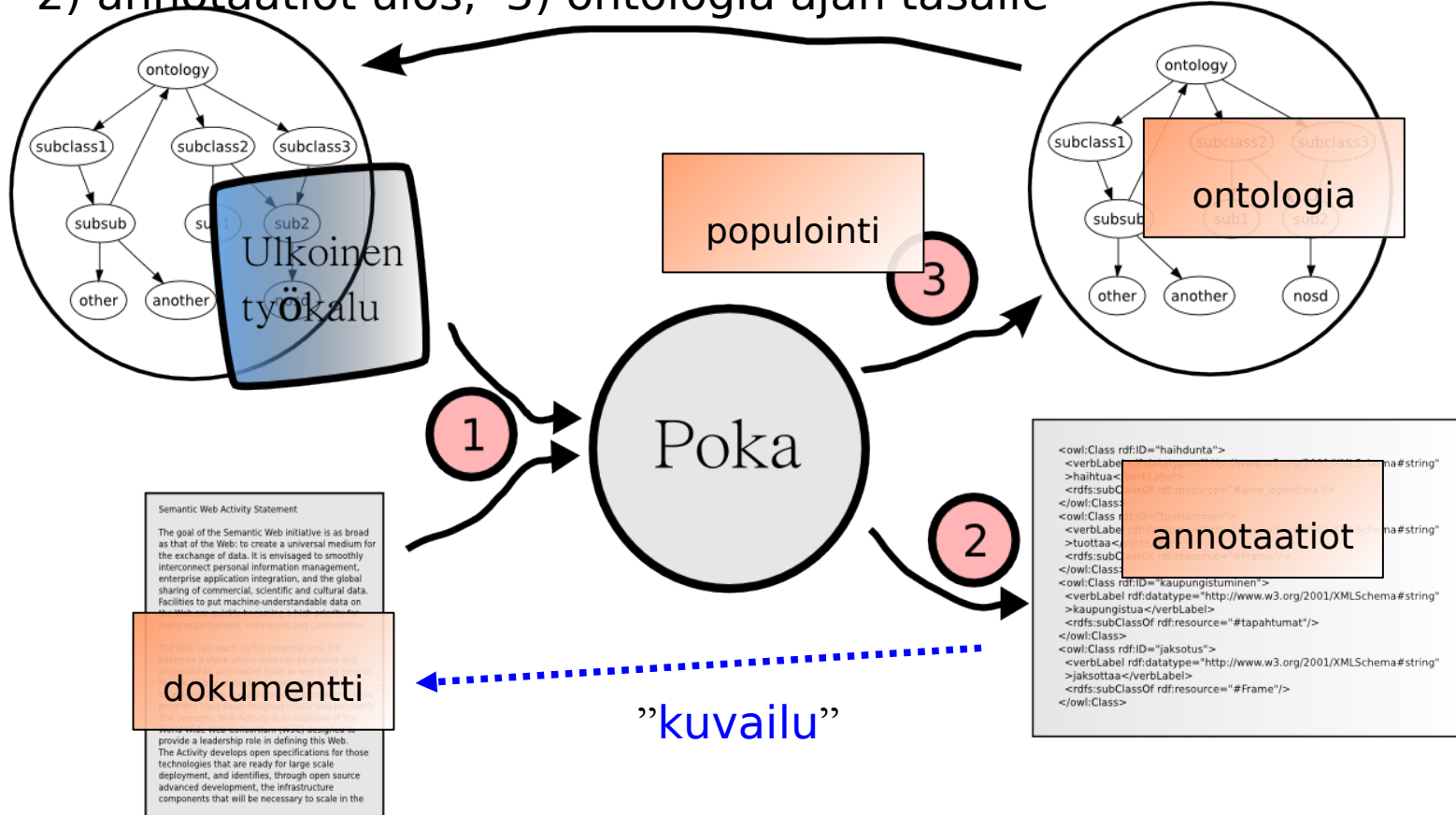
dokumentti

World Wide Web Consortium (W3C) designed to provide a leadership role in defining this Web. The Activity develops open specifications for those technologies that are ready for large scale deployment, and identifies, through open source advanced development, the infrastructure components that will be necessary to scale in the

Poka: toimintamallit



- 1) ontologia, eristystyökalu ja dokumentti sisään,
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Semantic Web Activity Statement

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dokumentti

The Web can reach its full potential only if it provides a leadership role in defining this Web. The Activity develops open specifications for those technologies that are ready for large scale deployment, and identifies, through open source advanced development, the infrastructure components that will be necessary to scale in the

annotaatiot

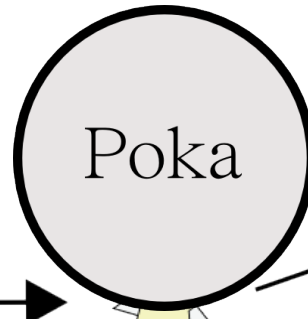
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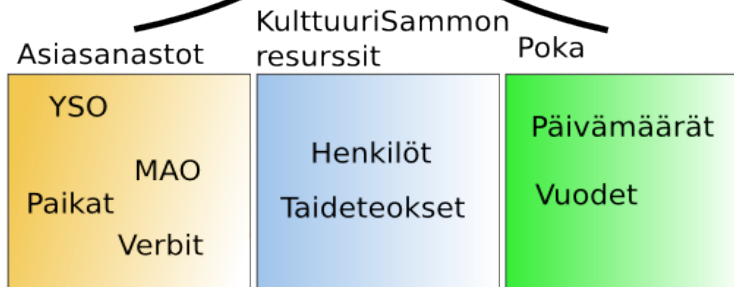

Poka: case Kulttuurisampo



Annotoitava dokumentti



Merkattu HTML-dokumentti



RDF-annotaatio

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Poka: case Kulttuurisampo



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Akseli Gallen-Kallela

From Wikipedia, the free encyclopedia
(Redirected from *Akseli Gallén-Kallela*)

Akseli Gallen-Kallela (April 26, 1865 - March 7, 1931) was a Finnish painter who is best known for his illustrations of the *Kalevala*, the Finnish national epic (*illustration, below*). His work was considered very important for the Finnish national identity.

He was born **Axél Waldemar Gallén** in Pori (in Swedish *Björneborg*), Finland. His father Peter Gallén worked as police chief and lawyer. At the age of 11 he was sent to Helsinki to study at a grammar school, because his father opposed his ambition to become a painter. After his father's death in 1879, Gallen-Kallela attended drawing classes at the Finnish Art Society.

In 1884 he moved to Paris, to study at the *Académie Julian*. In Paris he became friends with the Finnish painter *Albert Edelfelt*, the Norwegian painter *Adam Dörnberger*, and the Swedish writer *August Strindberg*.

In 1890 he married Mary Slöör. The couple had three children, Impi Marjatta, Kirsti and Jorma. On their honeymoon to East Karelia, Gallen-Kallela started collecting material for his depictions of the *Kalevala*. This period is characterized by romantic paintings of the *Kalevala*, like the *Aino triptych* and by several landscape paintings.

In December 1894, Gallen-Kallela moved to Berlin to personally oversee the joint exhibition of his works with the works of Norwegian painter *Edvard Munch*. In March 1895, he received a telegram that his daughter Impi Marjatta had died from *diphtheria*. This would prove to be a turning point in his work. While his works had previously been romantic, after his daughter's death Gallen-Kallela painted more aggressive works like *the Defense of the Sampo*, *Joukahainen's Revenge* or *Lemminkäinen's mother*.

For the *Paris World Fair* in 1900, Gallen-Kallela painted *frescoes* for the Finnish Pavilion. In these frescoes, his political ideas became the most apparent. One of the vipers in the fresco *Ilmarinen Plowing the Field of Vipers* is wearing

Gallen-Kallela skiing

The *Aino* triptych

Valmis

Poka: yhteenveto



HELSINKI UNIVERSITY OF TECHNOLOGY
Media Technology

peruskomponentti RDF-perustaisen annotoinnin automatisointiin:

- dokumenttien ja ontologioiden hallinta ja käsittely dynaamisesti
- indeksointi, skaalautuvat tietorakenteet
- tokenisointi, stemmaus, kielituki...
- räätälöidään käyttöön tarpeiden mukaan:
 - sovelluksia mm. Opas, Airo, Saha,
 - Kulttuurisampo, Aqua (MedIEQ)