

Pedagogical benefits of the semantic web

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Learning and understanding

- The brain is an associative structure
 - neurons and synapses
- The building blocks of knowledge
 - concepts and associations
- The organizing units of information
 - terms (keywords/tags) and references



students in the information jungle

- with more information it is easier to get lost
- - Information is not knowledge, and knowledge is not wisdom (Frank Zappa)
- When it comes to pedagogics, everything is NOT miscellaneous!



kuling.net

- a pedagogical site for local history and geography
- contributions from experts AND amateurs
- content separated by contributors' role
- structured by topics and relations
- everyone can enter new topics
- open source, developed on ZTM





National Digital Learning Arena (NDLA)

Short history:

- 2006: Ministry of Education announces free learning resources to secondary schools
- NDLA: National strategy for providing free digital learning resources
- Access system chosen by MoE: Drupal on fag.utdanning.no

Status

- 3 subjects
 - Norwegian
 - Natural Sciences
 - Health and Social Sciences
- Hundreds of newly produced/commissioned learning resource available

In the pipeline

- User interaction and contribution
- More subjects domains
- Many more of learning resources
- Semantic technology!!!!

2 level user model

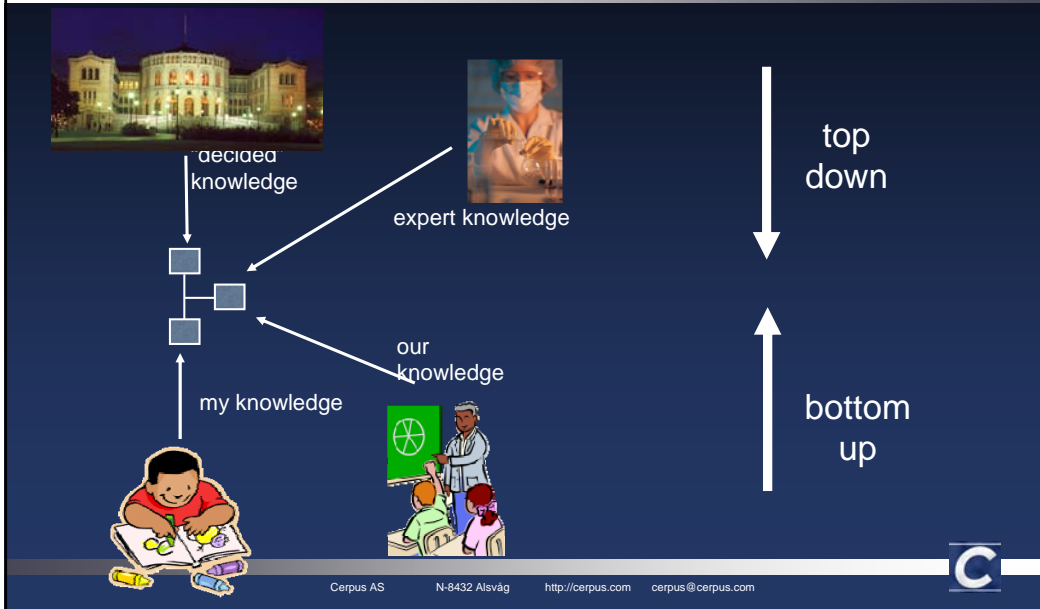
Editors

- Defined vocabularies, taxonomies, ontologies.
- Cross references between subjects etc
- Formal ontologies, GREP, ++

Learners

- Folksonomies, tags
- New relations and instances (learning resources)

Sources of knowledge



from plan to action

the traditional way

