

Exploring Quality Issues in the Use of LOs:

To Tag or Not to Tag?

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- Quality issues in the use of LO
- Context of work
- Student tagging observations
- Tagging in a learning quality process



A Researcher and a Teacher ...





Quality Issues in the Use of LOs

- Quality of learning object (and metadata):
 - Classical work often result of iterations of feedback
 - Student evaluations are overlooked and neglected
- Quality of the learning processes:
 - Discrepancy between the teacher's intention and the students' reception
 - Student interpretation and misinterpretation might both be fruitful
 - Professors need to develop their skills as teachers in tagging their LOs



- Blended learning at Gjøvik University College:
 - On-campus students in classroom
 - Distant students (often lifelong learners)
- Lectures recorded and made available as Learning Objects (LOs):
 - Some professors break lectures into smaller chunks
- Focus on the use of LOs in current teaching:
 - For distant on-campus students and distant students
 - Less focus on reuse more on utilization of LOs of in daily learning activities



Duration:

During the spring semester of 2010

Participants

- Two courses, 8 LOs in each course
- Two groups of master students, approx. 10 students in each group
- The professors teaching the courses

Purpose:

- Study the difference between the professor and student view of LOs
- Study the potential role of LOs in a college setting
- Seek added value for students and professors



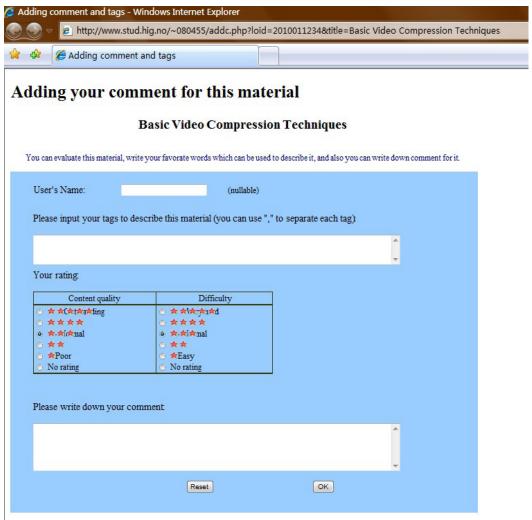
- Part 1:
 - Professors assigned keywords to the LOs
 - Students tagged the LOs
- Part 2:
 - Some students were interviewed
 - Professors were interviewed



- The focus of the study was on *descriptive* metadata, such as:
 - Dublin Core Subject
 - LOM General. Keywords
 - LOM Classification. Keywords

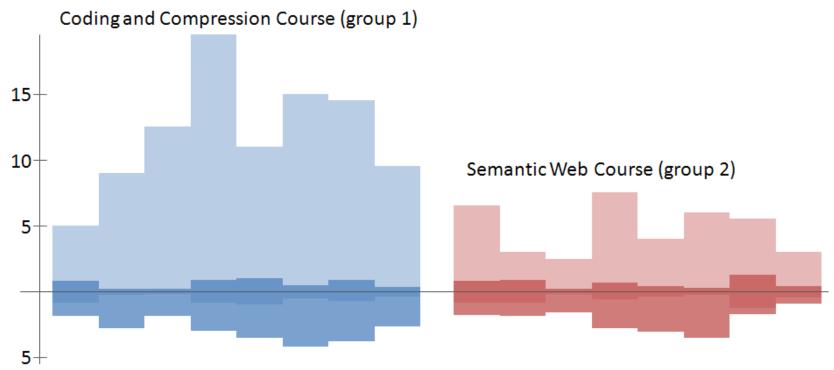


The Tagging User Interface



Overlap (1)

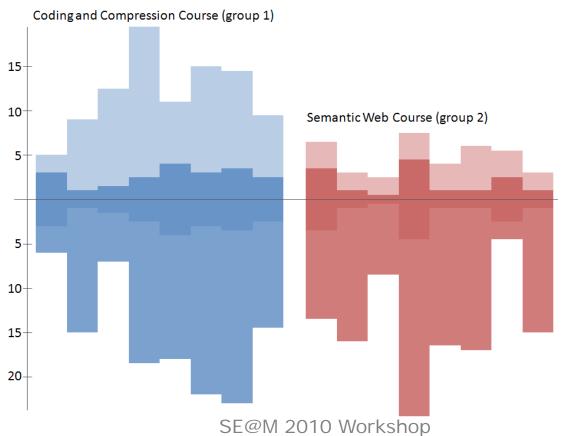
Overlap between professor keywords and average student tags





Overlap (2)

 Overlap between professor keywords and sum of student tags:

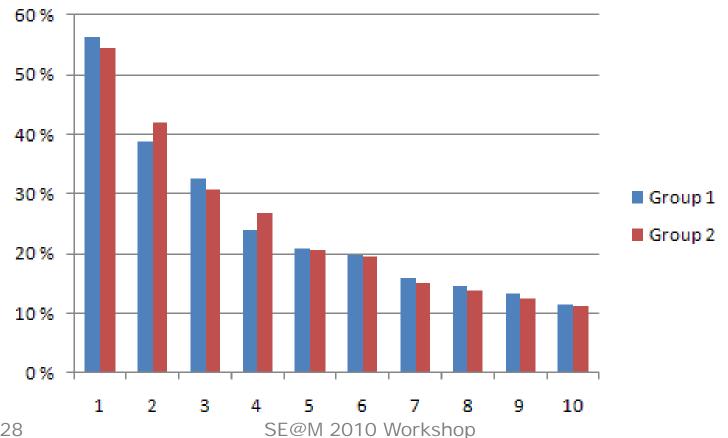


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Intra-student Agreement

Level of agreement for the most popular tags:



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More Observations

- Professor-assigned keywords tended to be more abstract and/or general in nature
- Professors assigned more contextual keywords
- About 55% of tags were used by one student only
- The study was too short for a folksonomy to develop



Student Interview Results

- Quality of the learning objects/meta-data:
 - Tagging considered a good way to provide feedback regarding the quality of the LO
 - Students would like to see the tagging system being used in all courses
- Quality of learning processes:
 - Easier to understand the professor's intention after reading the keywords
 - Being able to see other students' tags were considered to be helpful for the learning process also



Professor Interview Results

- Quality of the learning objects/meta-data:
 - Tag feedback considered useful in improving the learning object
 - Some of the students' tags should have been included as keywords
 - None of the original keywords should be removed
- Quality of learning processes:
 - Tags useful in understanding how well the students grasped LO intentions
 - Future teaching would be affected by the feedback



- There is an observable difference between the professor keywords and student tags
- The difference may be useful:
 - Can be used by the professor to improve the LOs or accompanying metadata
 - Can be used to take future (teaching) action
 - Student tags may be helpful to fellow and/or future students in interpreting the LOs



- Longitudinal effects (social network effects):
 - The development of a folksonomy
 - Importance of former students' tags
- Will students and professor be willing to do what they claim they will?
- Assistive learning tools for creation and use of tags
- Search and exchange of student tags and evaluations