How Students Measure Up: Creation of an Assessment Instrument for Introductory Computer Science

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Motivation

- Assessment is Important
Results So Far

- Examined CC2001
- Refined Topic List
CC2001 Structure

- Knowledge Areas (14)
  - Knowledge Units (3 – 10)
    - Topics (3+)
      - Learning Objectives (1 per topic?)
Examining CC2001

- CS1 intersection too small
  - 60% of topic coverage in intersection
  - 30 – 47% of hours not in intersection

- CS1 & CS2 intersection
  - 78% of topic coverage in intersection
  - 81-88% of hours in intersection
Too Many Topics!

- Originally 75 topics in intersection
- Whittled down to 51
- Identified learning objectives for the 51 topics left
What am I up to now?

- Writing questions
- Further refinement of topics
In the Future...

- Administer Test
- Analyze Results
  - Reliability, Validity