Collaborative Learning in ITS

by Athirah, Ashley, Marlene, and Sophia

What is Collaborative Learning?

- (Teasley and Roschelle, 1993) Collaborative learning can be defined as a learning situation during which students actively contribute to the attainment of a mutual learning goal and try to share the effort to reach this goal.
- (Goodyear et al. 2013) Students work together to maximize their own and each other's learning
- (Dillenobourg, 1999) Collaborative learning requires the group to complete the task together, through dialogue and joint action.
- !!! Collaborative is NOT co-operative learning
- (Dillenobourg, 1999) Co-operative learning is used to denote situations in which students (can) divide up a group task and tackle the parts with a substantial element of independence.

Why Collaborate?

"Outcomes of collaborative learning are superior to those of individualistic and competitive situations"

Advantages	Disadvantages
Students responsibility	Worry of putting forward ideas: Don't want to look silly!
Encourages convergent thinking: "Convergent thinking is needed for ideas to be relevant"	Hinders divergent thinking/exploration
Improves retention of material, motivation to learn and focus on tasks	Emphasis on communication skills
Exposed to multiple perspectives	"Bad apples" within groups, demotivation
Metacognition: Requires teaching others, self- awareness of weaknesses/strengths	

What We'll Talk About

- Simulated Collaborative Learning Systems
- Computer Supported Collaborative Learning (not a tutoring system) 1 example
- Collaborative ITS 2 example

Examples: Medical Problem-Based Learning, Pt.1: why

• PBL teaches collaborative skills needed in professional life as well as material

 not enough resources/money to give individual tutor attention to small groups
= ITS :)

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Examples: Medical Problem-Based Learning, Pt.2: what



Examples: Medical Problem-Based Learning, Pt.3: tutor actions

Problem Solving

- general and specific hints
- negative feedback
- jumping critical steps warnings
- other explanations prods

Social

- create open environment for discussion
- refer to expert in the group

Examples: UML Class Diagrams, Pt.1: why

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 UML - most popular object oriented model currently

- Collaborative Learning has advantages! and can be done over distance (see earlier)
- = We should totally combine those!

Examples: UML Class Diagrams, Pt.2: what



Examples: UML Class Diagrams, Pt.3: tutor actions

Problem solving: already discussed

Social - Have 4 categories of constraints - present feedback when they're violated

- initial planning (at beginning)
- chat-based
- group diagram contributions
- differences between group and individual diagrams

Coursera



Video Games and Learning by Constance Steinkuehler, Kurt Squire



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Thankyou :-)