

Teaching ACT-R at RPI

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Teaching ACT-R at RPI

- Ph.D. in Cognitive Science and B.S. for Undergrads
- Cognitive Modeling
 - One Semester
- Mixture of Students
 - Undergrad (Junior and Senior) and graduate
 - Cognitive Science, Psychology and Computer Science
 - Double majors
 - Not required



Teaching ACT-R at RPI

- Class size varies (8 -25)
 - No TA
- Prerequisite
 - Data Structures and Algorithms (CS Course)
- Combine with
 - LEABRA
 - SOAR/EPIC/CLARION
- Minimize use of LISP

HW/Exams/Projects

- Tutorial Units
- Papers OK for graduate students
 - Undergraduates?
- Exams
 - Take home or none
- Let student choose project
 - Hard for students to propose projects
 - Need environment
 - Games (SET, Minesweeper, Sudoko)



Teaching ACT-R Issues

- Materials available
 - 2004 paper, 2007 book
- Use of Environment
- Tutorials
 - Cover only the basics

Topics not in Tutorial

- Temporal
- Parameters (146)
- Module Creation
- Threaded Cognition
- Blending
- Partial Production
- Debugging

Issues

- Most difficult subject
 - Testing and Debugging
 - Chunk naming
- Production Programming
- Prerequisites
 - What to require



Ideas for New Approach

- Teams
 - One project
 - Multiple project
- One complex project done by all

