

U.S. Army Research, Development and Engineering Command

Intelligent Tutoring System Authoring Tools: Harvesting the Current Crop and Planting Seeds for the Future

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

2151

ITEL

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Learning in Intelligent Tutoring Environment (LITE) Laboratory

Army Research Laboratory - Human Research & Engineering Directorate (HRED)

This talk is brought to you by pineapples

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Agenda (What will you see?)

ARL 2 of 12

Demos 7. sitPed 1. This 8. Cognitive Tools 9. TRADEM 2. SimStudent 3. Authoring Perspectives 10. Tales of Tools 4. General Purpose ITS Theory **Dev Tools 11. Towards Domain** 5. xPST Experts 12.SKO Markup 6. ASAT **13. Theory** Lunch PANEL

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• You need an outlet

 Authoring Tools research is routinely underpublished

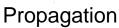
Why Bother?

Selfish Timing

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- Expert Advisory Board next week
- Authoring Tools are important
 - Speed the development of a field
 - Help in the use of the technology
 - You do want this stuff in classrooms, right?
- Seeing is Believing









Fruit to Chew: Let's Talk Users



- Pay attention to the variety of users
 - Mass-production
 - Teachers
 - Researchers
- Pay attention to their needs
 - Simple, but all tasks
 - Content only
 - (Everything)





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Fruit to Chew: Let's Talk Software

- Pay attention to generalizability

 How will this generalize?
 How would different content be input?
- Pay attention to interoperability
 - How would another system use this?
 - How has system knowledge been encoded?
- Be selfish

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– How would I use this?



Fruit to Chew: Let's Talk Future



- Pay attention to automatic targets – What can be indexed?
 - What can be crowd-provided?



- What can be done automatically?
- What is the low ha

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Our work

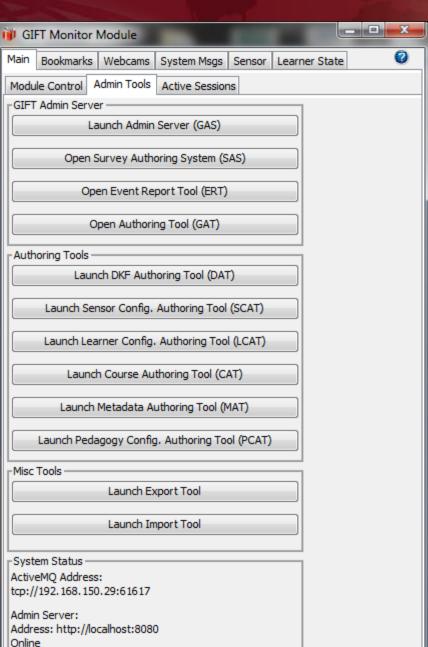


- 100% generalizable
 - Bilateral Negotiations
 - Compliance Training
 - Medical Triage
 - Simulations
- Needs modules
 - Needs authoring
- Needs courses and content
 Needs authoring





Our work





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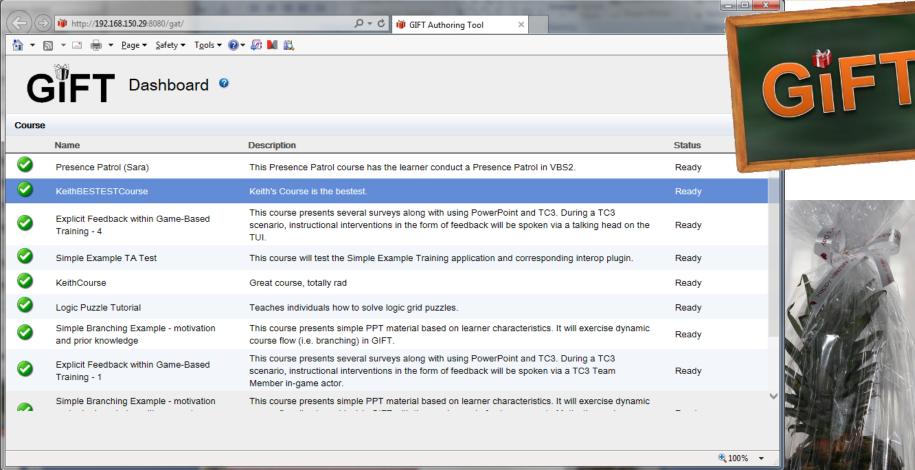
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Our work





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Where are we starting?



DEMO



Without Further Ado!



(Current Crop)

(Future Seeds)

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