





The GIFT Authoring Experience: 2018 Update

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GIFTSYM 2018







- GIFT Authoring Tool User Interface
- Enhanced GIFT User Support
 - Summer Camp
 - Instructional videos
- Exemplar Tutors
- Authoring Support for New Capabilities







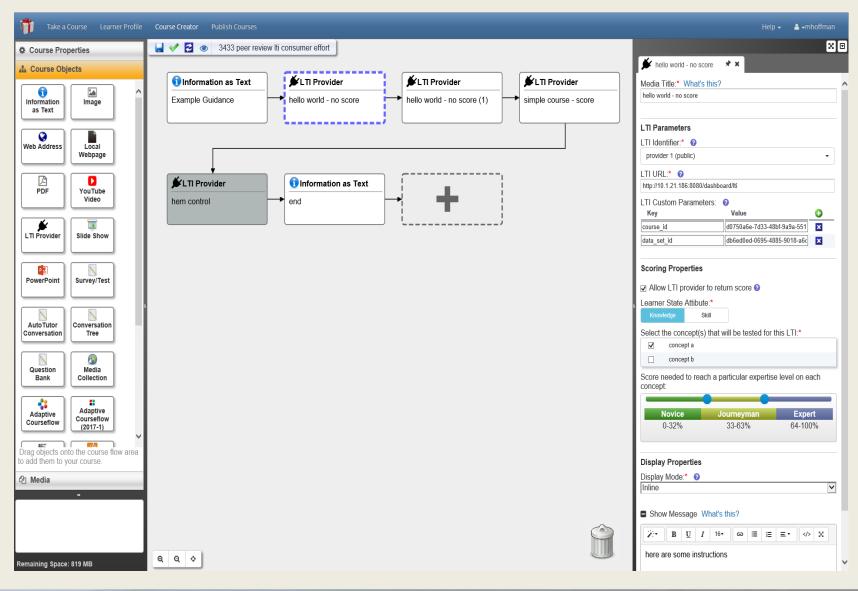
GIFT Authoring Tool





GIFT Authoring Tool – User Interface ARL









GIFT Authoring Tools – Ultimate Goal ARL



A domain Subject Matter Expert (SME) should be able to use the GIFT authoring tools to develop adaptive instruction (e.g., training course) without any additional help from instructional systems designers, computer programmers, etc.







Authoring Tool Support



Summer Camp



A 2-day on-site class, that teaches participants how to:

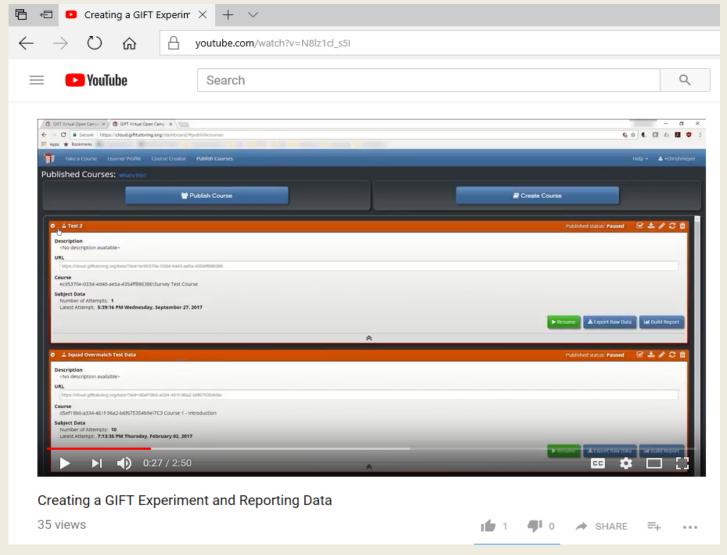
- Operate GIFT software functionality
- Produce GIFT outputs based on inputs
- Produce a linear course within GIFT
- · Manage students, courses, and experiments
- Apply advanced Intelligent Tutoring concepts
- Produce an adaptive GIFT course





GIFT Instructional Videos





https://www.youtube.com/watch?v=nGywC-jf0Mk





Video Creation Process



- Prioritize GIFT authoring topics
- Develop script for narration
 - Script is reviewed by Adaptive Training team
 - Screen shots were added to help understand script
- Authoring process is recorded using commercial video capture software
- Voice is then overlaid with the video





Current List of GIFT Instructional Videos ARL



About GIFT	Difference between types of surveys
GIFT Authoring Process	Import Tutor
Cloud vs. Downloadable GIFT	Copy Tutor
Adding a Survey	Metadata Tagging
Importing Media	Course Concepts
Where to find help	Linking to a simulation
Computer-based Training vs Intelligent Tutors	Question bank
GIFTSym and Community	PowerPoint vs Slideshow
Course Objects Overview	Case Study – Excavator Simulator
Export Tutor	Making an experiment



Exemplar Tutors



 ARL BAA Sources Sought –Generalized Intelligent Framework for Tutoring (GIFT) Authoring Grand Challenge, DEC 2017

- Goal:
 - Develop tutor using GIFT
 - Provide 1 hour of content for an "Expert"
- Tutors Must Support Training in Various Domains
 - Reporting intelligence information
 - Visual signaling techniques
 - Dismounted land navigation
 - Statistics and measurements in research
- Must support all quadrants of Merrill's component display theory





Exemplar Tutors: Real – Time Assessments ARL



- **Dismounted land navigation Unity**
- Reporting intelligence information VBS3
- Visual signaling techniques Leap Motion technology







New Capabilities





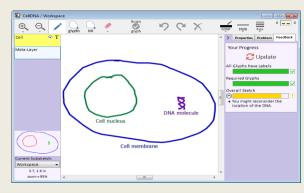
Authoring Support for New Capabilities ARL



- **Learning Tools Interoperability (LTI) protocol**
 - Provider: GIFT can send learner performance data to an LTI compliant Learning Management System (LMS) e.g. edX, Canvas, and Blackboard
 - Consumer: GIFT can receive learner performance data from an external environment, e.g. Cognitive **Tutor Authoring Tools (CTAT) to control the outer** loop.

Other examples include support for Cogsketch, GIFT

mobile app, etc.







Questions



