GOING IN-WORLD

Exploring Multi-User Virtual Environments for Online Teaching and Learning

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Aim of the Paper

Share initial experiences and impressions about multi-user virtual environments, especially Second Life

Draw some implications to online teaching and learning



What is a MUVE?

A multi-user virtual environment (MUVE) is an interactive computer simulation of a geographical area where features of the environment are represented by computer graphics. A player uses a mouse to lead an avatar into and navigate within that world.

Blaisdell, 2006



Examples of MUVEs

Membership

Community

Parents

FATURED IGLOOS - FERRUARY 2

Toys

Mobile

Language Select

PLAY NOW!

General

- Main Page
- News
- Foundation

For Administra

- download
- Running
- Configuration
- Building
- FAQ
- Support
- Report a Bug

For Grid Users

- Connecting
- Grid List
- Screenshots

For Creators

- Content Creation
- Scripting

For Developers

- Dev Home
- Dev Team

Your World. Your Imagination.

Join Now

Have fun, flirt, or simply flaunt your creativity in a world where you can experience and create anything you can imagine.

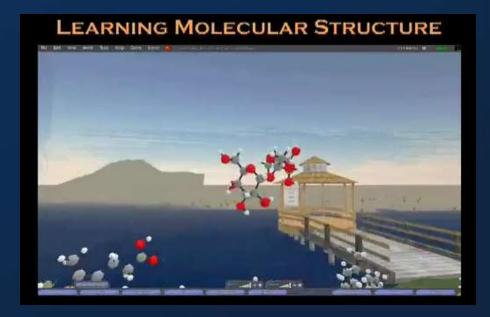
Out of the box, OpenSimulator can be used to simulate virtual environments similar to Second Life™ &, given that it supports the core of SL's messaging protocol &. As such, these virtual worlds can be accessed with the regular SL viewers &. However, OpenSimulator is neither a clone of Second Life's server nor does it aim at becoming such a clone. On the contrary, OpenSimulator lacks support for many of the game-specific features of Second Life (on purpose), while pursuing innovative directions towards becoming the bare bones, but extensible, server of the 3D Web.

Downloads:

MUVEs for education



Typical Video game: Enemies attack your avatar



Educational MUVE: Characters answer questions or give information

MUVEs for education

With educational MUVEs, instead of warding off opponents, searching for gold, or racking up points, players have only one goal: learning.

Blaisdell, 2006

Second Life



- Launched in 2003 by Linden Lab
- Residents explore the Grid and interact through avatars
- For people aged 16 and over
- Over 100 regions dedicated to education
- Most preferred virtual world (76% in 2010)



Second Life Features



Communication Tools

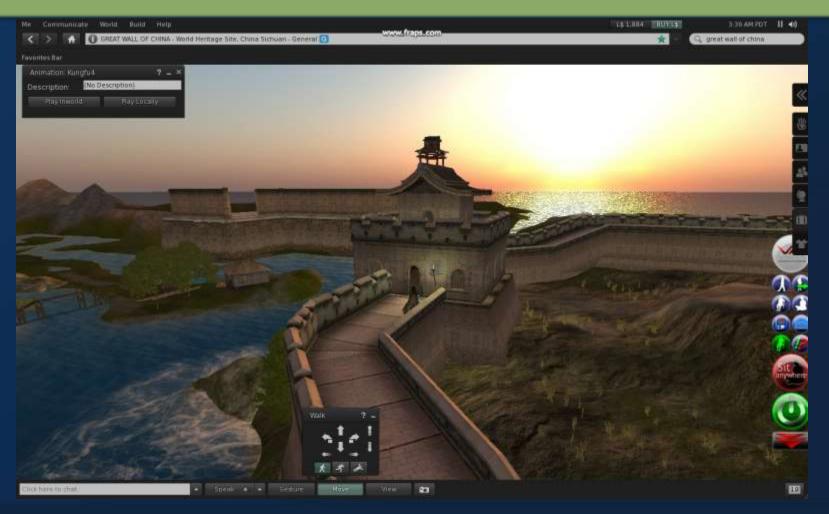
- IM, Chat, and Voice Chat
- Friends and Groups

Creation Tools

- Appearance
- Terraforming and Building
- Programming / Scripting

49 Major categories
3200 + destination sites





in world





avatar alt noob





wear detach

> clothes shoes hair skin shape





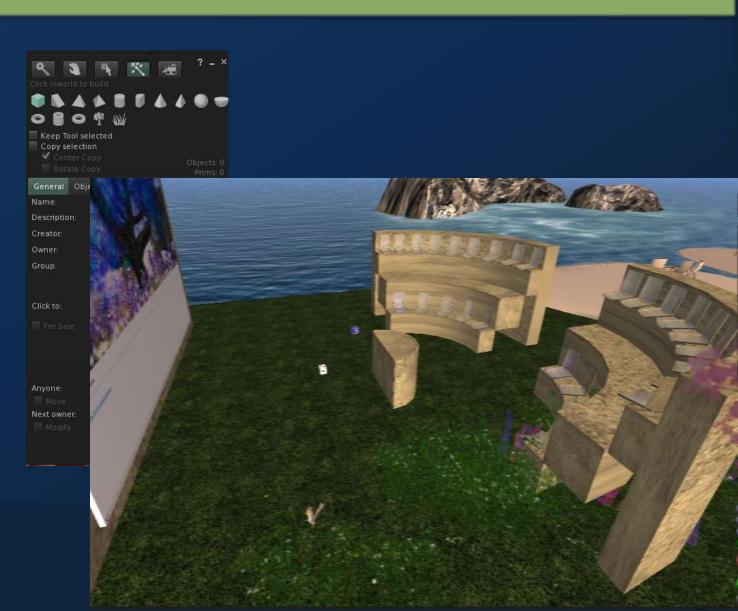




prims

sculpties

scripts



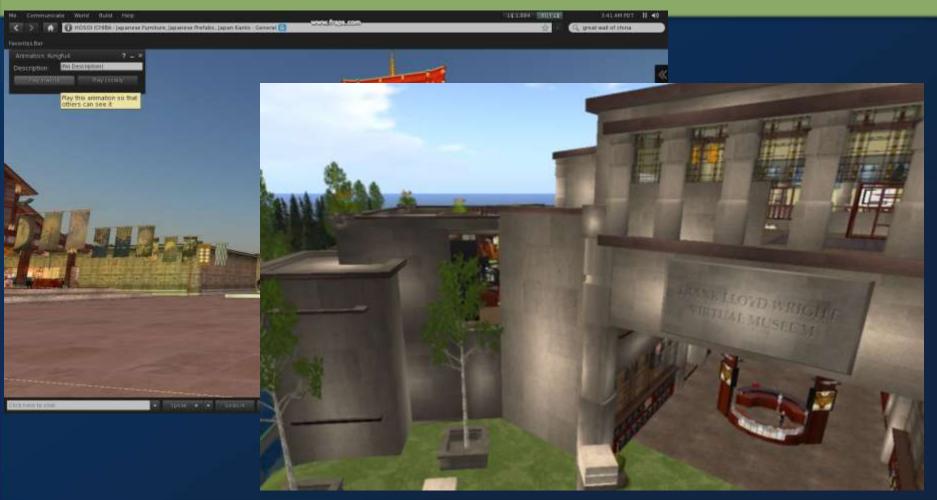


teleport

"tp me"

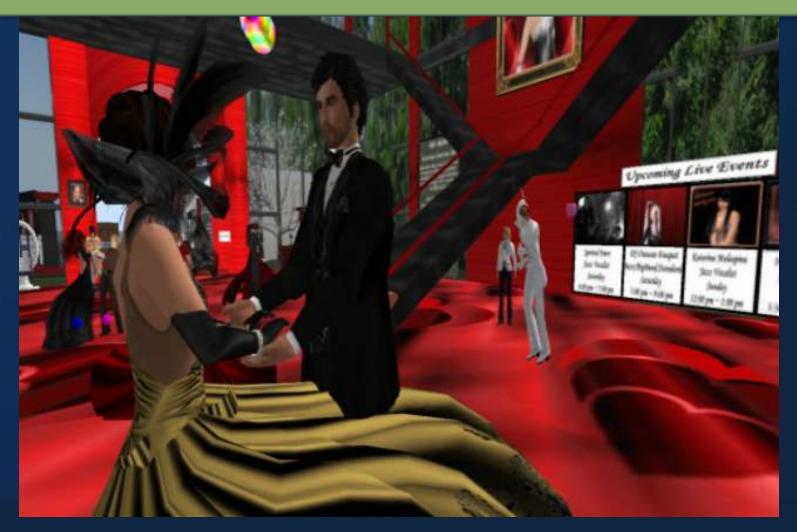






explore sims





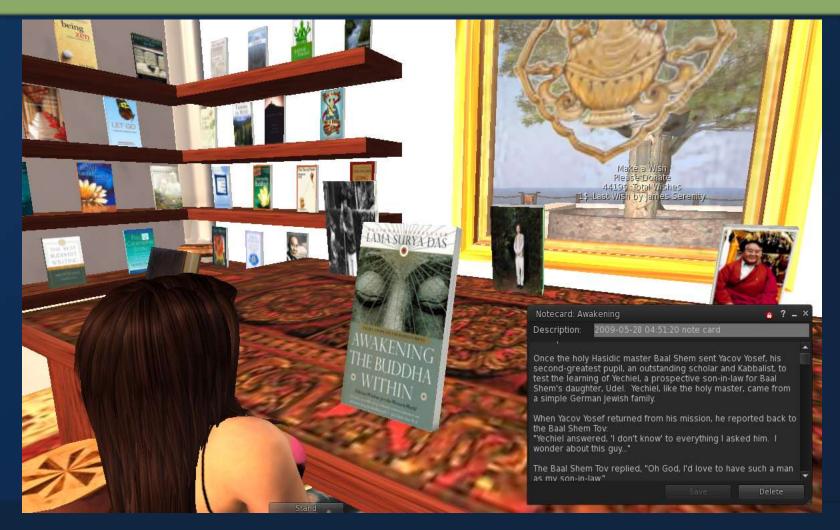
dance





shop





read









sail





scuba dive





tell, read, listen to stories

Going In-World: MUVEs

QuickTime™ and a H.264 decompressor are needed to see this picture.







practice religion





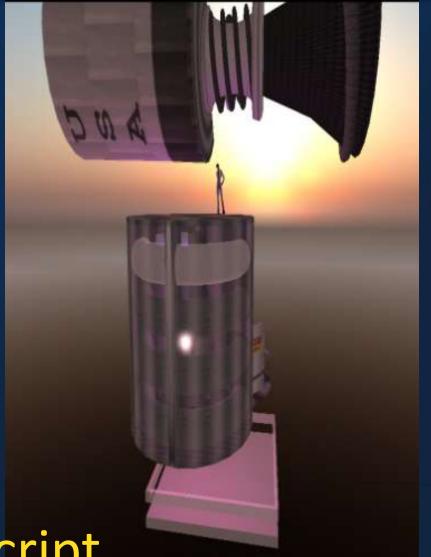




attend conferences







build and script





make friends





virtual campus





online class





simulation





service learning





virtual field trip





exhibit student work





network





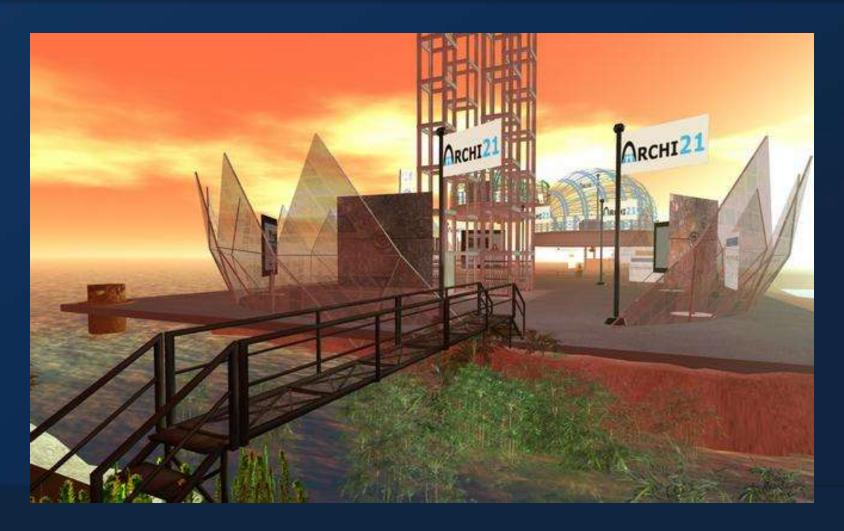
professional development





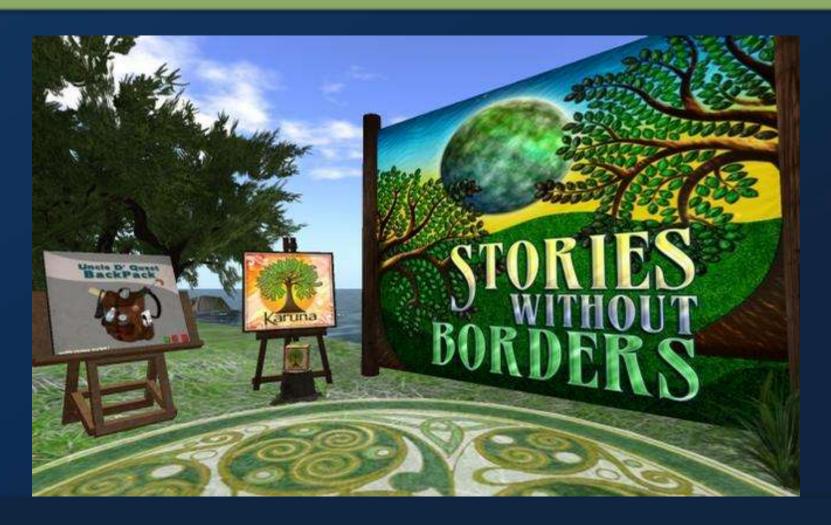
Shakespeare's Macbeth in Second Life





ARCHI 121





The Life and Times of Uncle D





Etopia Eco-Village





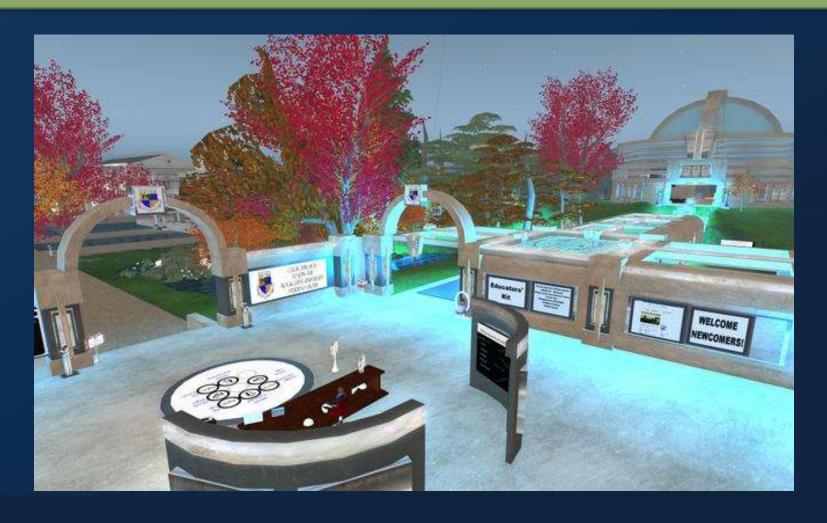
Medical Examiner's Office





Bio-Medicine Research Labs





Rockcliffe University Consortium





ISTE Island





Mayo Clinic





Post Graduate Medical School





Virtual Africa

MUVEs and LMS

Learning Management Systems (e.g., MOODLE)

- features allow for scaling to very large deployment if students
- enables course content delivery through multiple resources such as uploaded files and links to internetbased resources
- has performed well in discharging the functions of online DE learning

MUVEs and LMS

Learning Management Systems (e.g., MOODLE)

Limitations are apparent in courses with laboratory, clinical, or practicum requirements



SL + MOODLE = SLOODLE

What is SLOODLE?



Simulation Linked Object Oriented Dynamic Learning Environment Wha

What is Sloodle?

Second Life

Virtual Environment

- Avatars
- 3D construction
- Interactive scripts
- Immersive settings
- Virtual manipulatives

Moodle

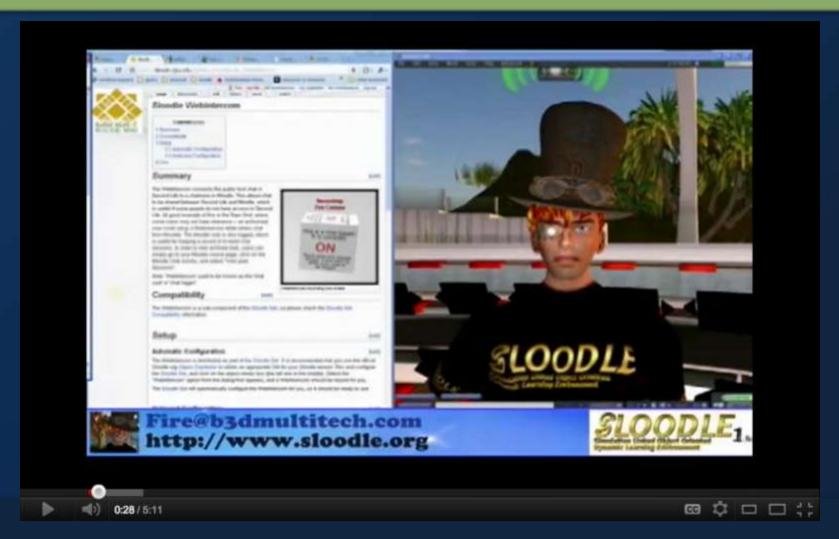
Learning System

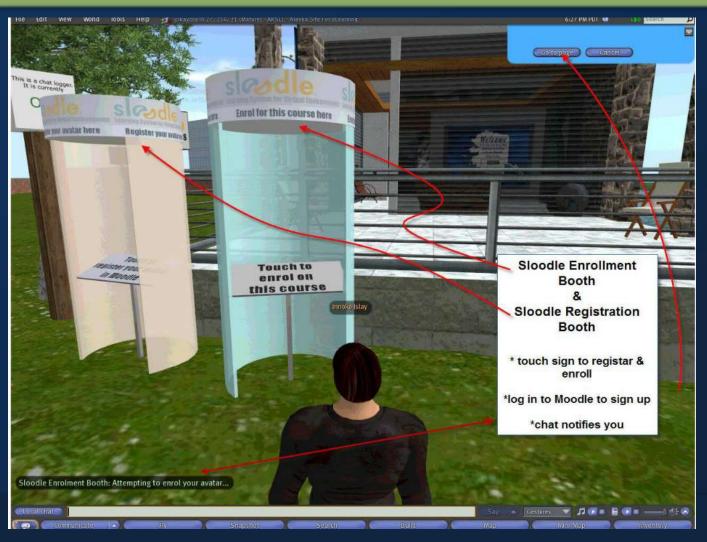
- Structured lessons
- Threaded discussion
- Assignment drop-box
- Self scoring quiz
- Roster / grade book
- Long-form documents

SLOODLE

Simulation-Linked Object Oriented Dynamic Learning Environment

Touch, walk through and fly around learning exercises mirrored on the Internet and the Metaverse. Blocks in Moodle become 3D objects in Second Life. Chat logs, objects and Second Life snapshots become contributions to the Moodle classroom. Two developer communities come together to create entirely new teaching tools that motivate while offering hands-on exploration.





Registration Booth



Quiz Tool and 3D Drop Box



SLOODLE Tool Bar

Concerns/Questions

When do we use MUVEs?

What kind of environment and artifacts are essential for teaching in a MUVE?

What learner factors influence the teaching and learning process within MUVEs?

Concerns/Questions

Requirements/challenges in setting up such a learning environment:

- instructional design
- technology, access, cost
- faculty development
- student support



Thank you from Namaste Island, SL