

Aalborg Universitet

Cybergogy as a framework for teaching design students in virtual worlds

Chase, Scott Curland; Scopes, Lesley

Published in: Digital Physicality

Publication date: 2012

Document Version Accepted author manuscript, peer reviewed version

Link to publication from Aalborg University

Citation for published version (APA):
Chase, S. C., & Scopes, L. (2012). Cybergogy as a framework for teaching design students in virtual worlds. In
H. Achten, J. Pavlíček, J. Hulín, & D. Matějovská (Eds.), Digital Physicality: Proceedings of the 30th International
Conference on Education and research in Computer Aided Architectural Design in Europe (Vol. 1, pp. 125-133). eCAADe. http://ecaade2012.molab.eu/

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
 You may freely distribute the URL identifying the publication in the public portal -

Take down policy

If you believe that this document breaches copyright please contact us at vbn@aub.aau.dk providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from vbn.aau.dk on: November 13, 2024

Cybergogy as a framework for teaching design students in virtual worlds

Scott Chase



Lesley Scopes











Project themes

- (Architectural) Design T&L
- Virtual environments (design & learning)
- Content and Language Integrated Learning
- Fragility of environments

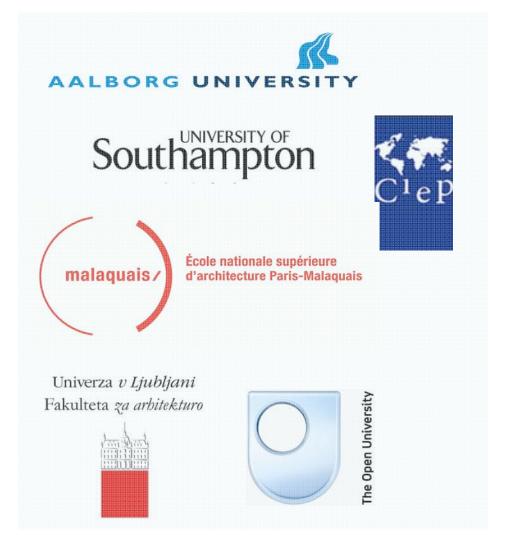








Partners



Associated partners & subcontractors



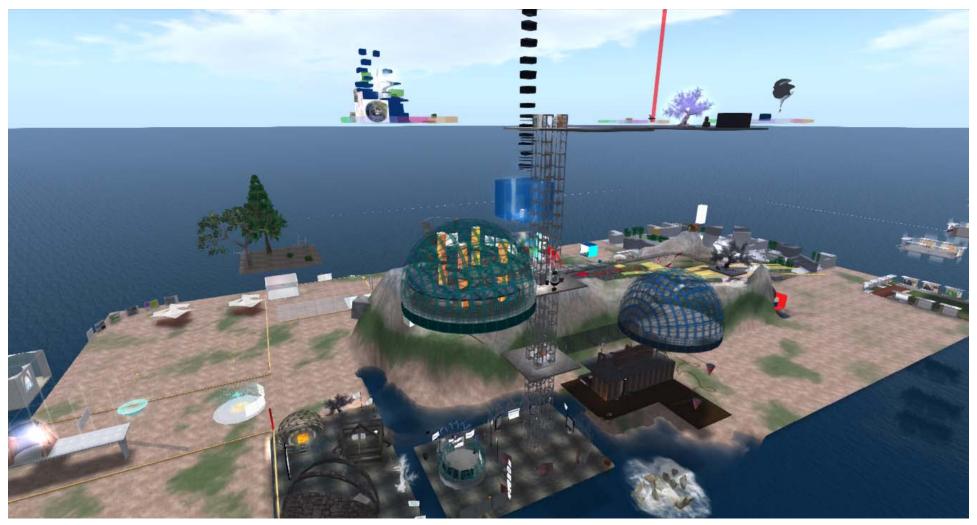








Second Life islands



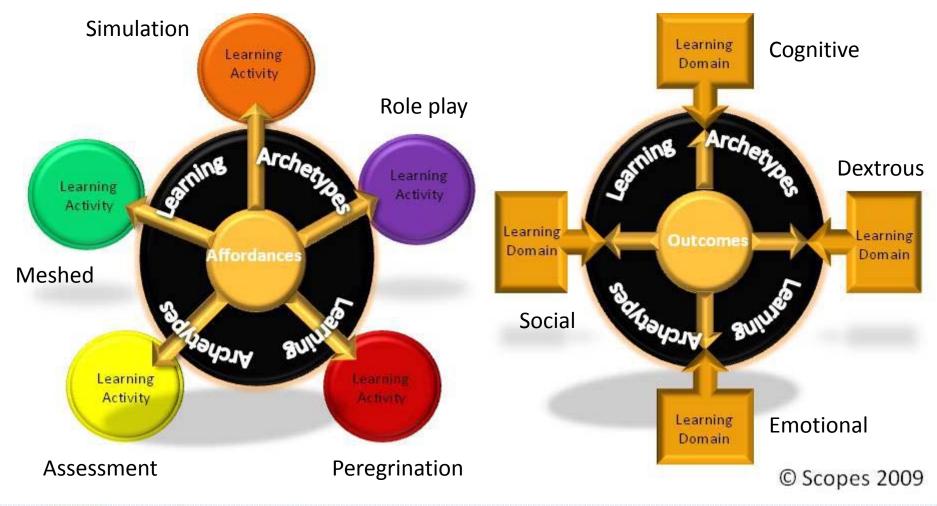








Cybergogy components











Taxonomy of Learning Domains

Cognitive Social Level of **Emotional** Dextrous **Implementation Domain** Domain Domain Domain Level 6 Mastering Creating Influencing Channelling Level 5 **Evaluating Empathising Naturalising** Networking Level 4 Analysing Articulating **Affiliating** Engaging Self Developing Level 3 **Applying** Communicating Regulating Precision Level 2 Understanding Attending Manipulating Contextualising Personalising Level 1 Remembering Perceiving **Imitating**









Second Life classes

- 1 hour induction class (teachers)
- 10 hour building class (teachers)
- 4 hour building/presentation class (studio students, Slovenia)
- 2 hour class on lighting techniques, linked to lighting design course (Slovenia)

instructor, students, mediators, observers









Lesson plans

Topic	SL Activity/Learning Archetype/ Additional Resources	Learning Domains Addressed	Learners RL Activity	Assessment Archetype
	(details omit	ted)		
	(actails office	1		
Building Techniques:	Simulation Archetype Language Mediators support students during the following tasks			
Prim Linking	Leader demonstrates linking/unlinking prims. Learners imitate tutor.	Cognitive Lv1&2	Attend to following 5	Formative Q&A to check fo remembering and
	2 22		demonstrations	understanding (Cognitive)
10m • Permissions				and Imitation (Dextrous)
			- 1	0
		Social Lv3	Tune Hotel Tel	Observation of practical
				output
	Learners (in pairs) imitate leader.		required	Daniel in the Faretional
520 W_030A_033A_03	Looder in world assessment in	Doutes		Based in the Emotional
			Carmentata	Domain, Learners are
	demonstration. Learners imitate Leader.	LVI		questioned regarding their feelings of the activity and
	Leader presentation: Avatar size	Cognitive	The second secon	perception of their
Building to Scale		8		abilities/satisfaction. Grou
	carriera issues, iviouseiook	LVZ		forum is encouraged for
• Presentations in SL	Leader Presentation: 3D objects	Cognitive	QQA	peer feedback
				peer reedback
				Formative Q&A
	Prim Linking Permissions Textures Building to Scale	Additional Resources (details omits Building Techniques: Simulation Archetype Language Mediators support students during the following tasks • Prim Linking Leader demonstrates linking/unlinking prims. Learners imitate tutor. • Permissions Leader demonstrates object permissions. Leader advises Learners how setting permissions over objects can limit or permit users interaction. Learners (in pairs) imitate leader. • Textures Leader in-world presentation, demonstration. Learners imitate Leader. Leader presentation: Avatar size, camera issues, Mouselook	Topic SL Activity/Learning Archetype/Additional Resources (details omitted) Building Techniques: Simulation Archetype Language Mediators support students during the following tasks Prim Linking Leader demonstrates linking/unlinking prims. Learners imitate tutor. Permissions Leader demonstrates object permissions. Leader advises Learners how setting permissions over objects can limit or permit users interaction. Learners (in pairs) imitate leader. Textures Leader in-world presentation, demonstration. Learners imitate Leader. Building to Scale Leader presentation: Avatar size, camera issues, Mouselook Presentations in SL Leader Presentation: 3D objects, slideshows, Uploading images, media on	Topic St. Activity/Learning Archetype Domains Addressed Activity

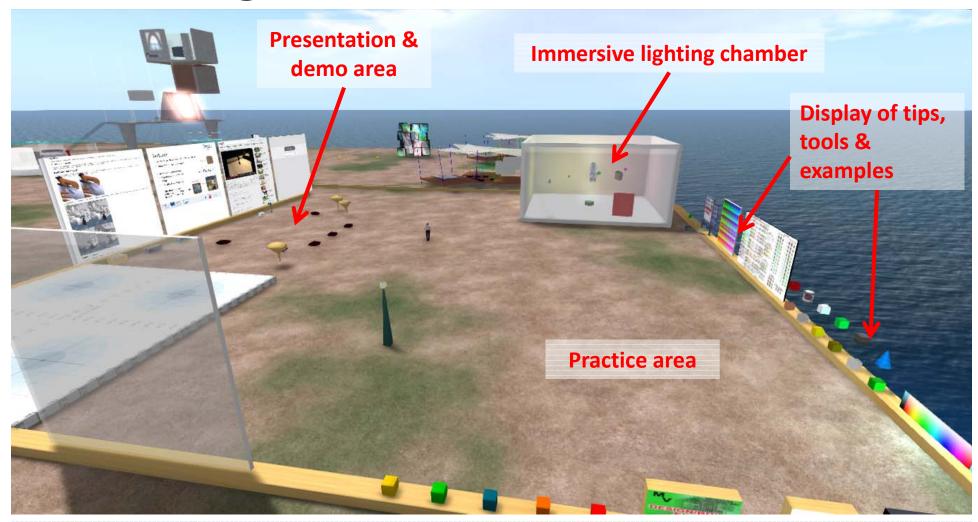








Building class area











Building class











Building practice











Immersive lighting chamber











Lighting Q&A











Issues

- Mixed student cohorts, many with inadequate SL experience, caused delays
- Weak use of emotional and social domains in learning outcomes
- No evident (English) language comprehension problems
- Lack of body language as feedback
- Difficult avatar identification in unstructured virtual space









Conclusions

- Which technologies work best
- 'Belt and braces' approach to teaching with technology
- Learning curve for SL and similar 3DiVWs higher than novices anticipate
- More time required for induction and building classes
- Use of 3DiVW environment best integrated into curriculum and supported
- Detailed, adaptable lesson plans mapping Learning Archetypes & Learning Domains to learning activities

Outcomes

- Packaged content for course delivery in Second Life and similar 3DiVWs
- 'Learning Objects' for Cybergogy and architectural lighting design
- Best practice guidelines for design students and practitioners in 3DiVWs





