

Instructor

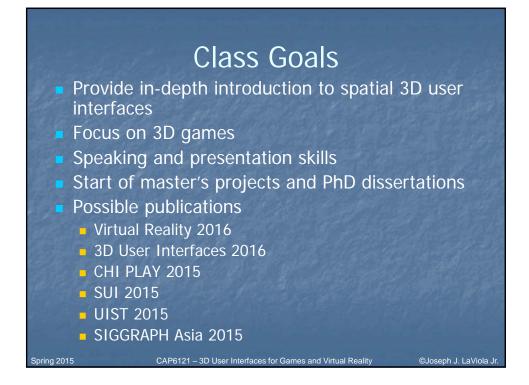
Professor – Joseph J. LaViola Jr. Email – jjl@eecs.ucf.edu Office Hours – Tues. 4:00pm – 5:30pm Wed. 6:00pm – 7:00pm Office is Harris 321

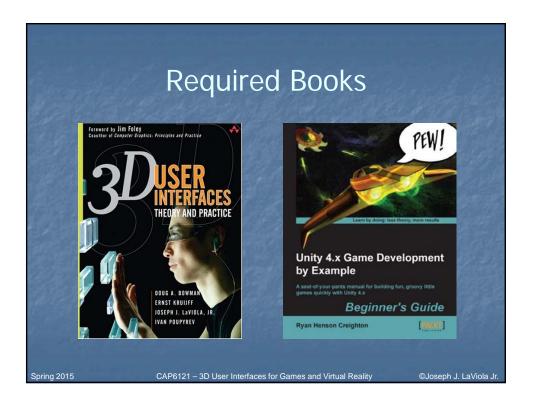
CAP6121 - 3D User Interfaces for Games and Virtual Reality

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Website will have all required info www.eecs.ucf.edu/courses/cap6121/spr15

orina 2015



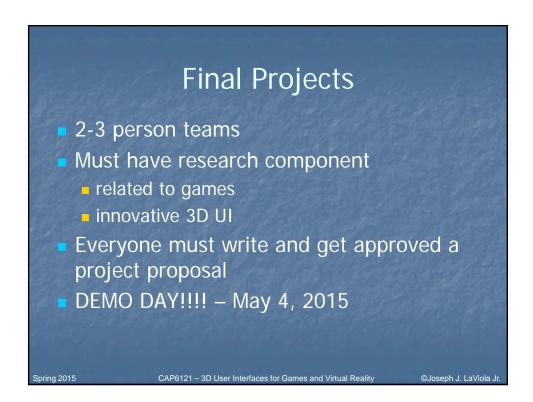


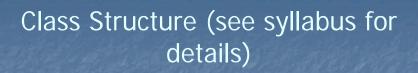
Grading

Assignment 1 (group)	15%
Assignment 2 (group)	15%
Survey Paper (individual)	15%
Paper presentation (individual)	5%
Final Project (group)	50%

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Spring 2015





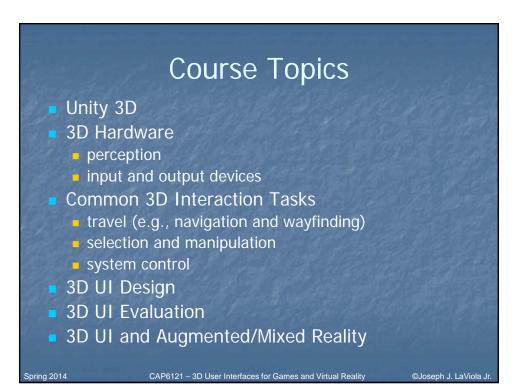
Lectures

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- Fundamentals of 3D user interfaces
 - hardware
 - common interaction tasks
 - user evaluation
- Student paper presentation
 - 20 minute presentation
- Final project update sessions
- Work done in ISUE Lab Harris 208 (laptops also)

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code access required



Collaboration and Late Policy

Collaboration encouraged

- do your own work on assignments
- cheating = BAD!!!

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All assignments must be handed in on time

Assignments – by 11:59pm on due date

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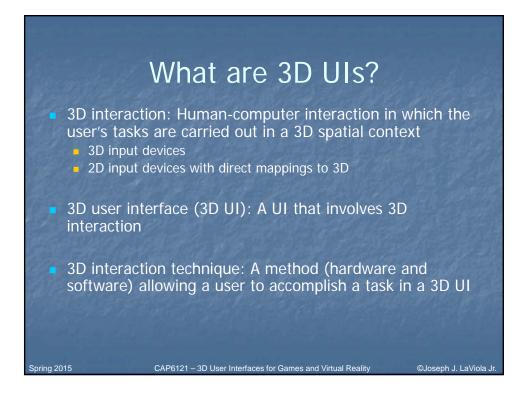












Why 3D Interfaces?

- 3D applications should be useful
 - immersion
 - natural skills
 - immediacy of visualization
- But, applications in common use have low complexity of interaction
- More complex applications have serious usability problems

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Technology alone is not the solution!

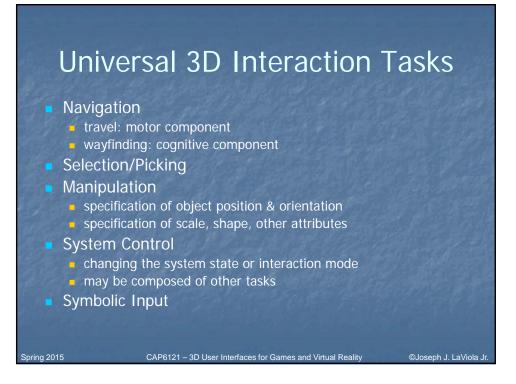
What makes 3D interaction difficult? Spatial input Lack of constraints Lack of standards Lack of tools Lack of tools Lack of tools

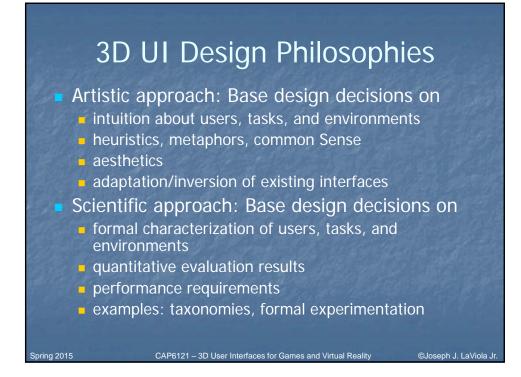
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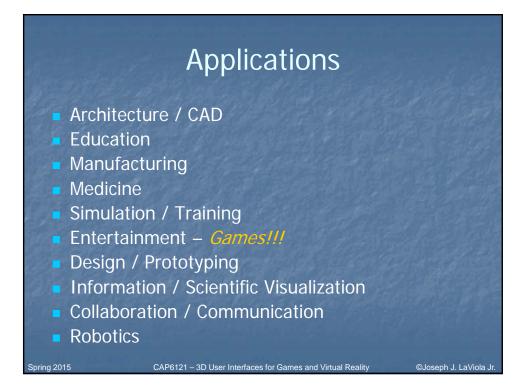
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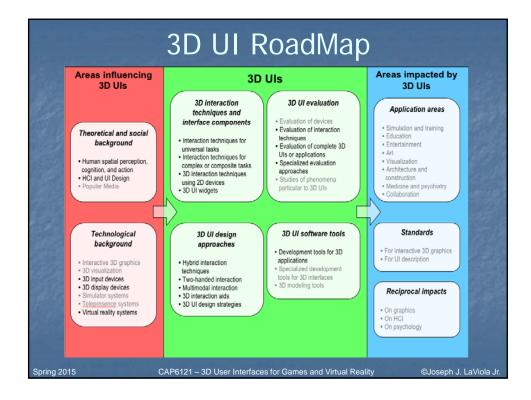
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Next Class	
Games and 3DUIs	
Readings	
 Bowman – Chapters 1 and 2 Bowman, D., Chen, J., Wingrave, C., Lucas, J., Ray, A., Polys, N., Li, Q., Haciahmetoglu, Y., Kim, J., Kim, S., Boehringer, R., and Ni, T. "New Directions in 3D User Interfaces", <i>International Journal of Virtual Reality</i>, vol. 5, no. 2, 2006, pp. 3-14. LaViola, J. "Bringing VR and Spatial 3D Interaction to the Masses through Video Games", <i>IEEE Computer Graphics and Applications</i>, 28(5):10-15, September/October 2008. Doug A. Bowman, Sabine Coquillart, Bernd Froehlich, Michitaka Hirose, Yoshifumi Kitamura, Kiyoshi Kiyokawa, Wolfgang Stuerzlinger, "3D User Interfaces: New Directions and Perspectives," <i>IEEE Computer Graphics and Applications</i>, vol. 28, no. 6, pp. 20-36, Nov/Dec, 2008 	
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