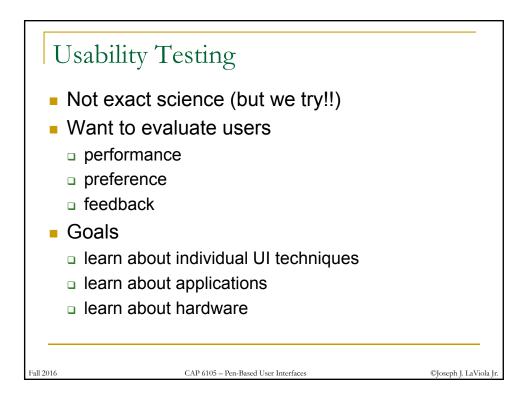
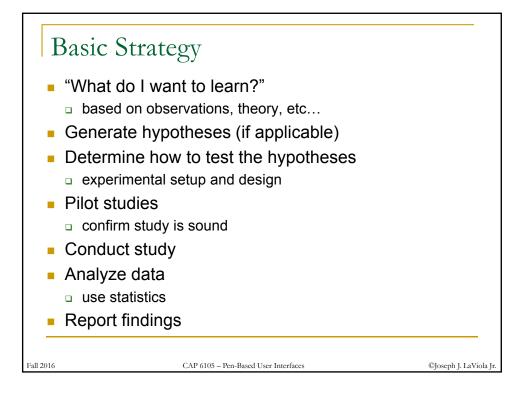
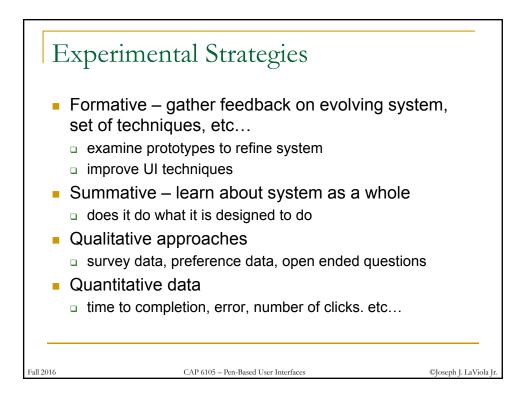
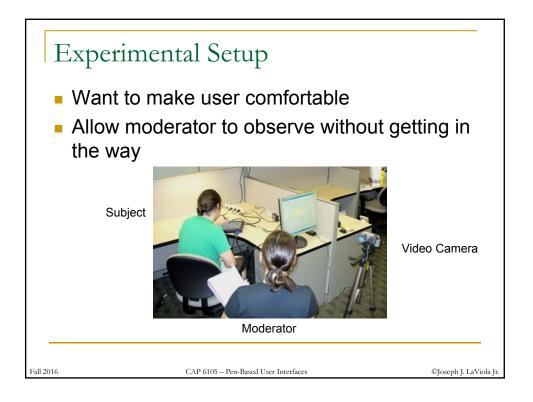
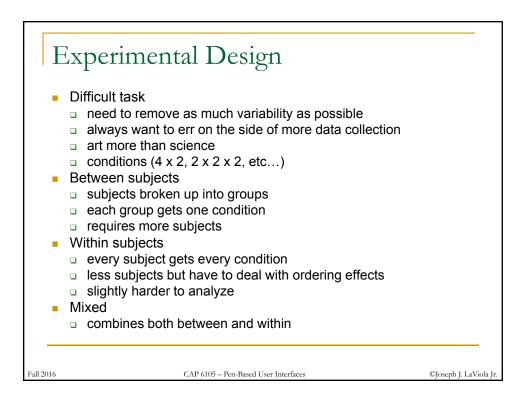
Tec	hniques for User Evalua	tion
	1	
	Lecture #12: User Evaluation	
	Joseph J. LaViola Jr.	
	Fall 2016	
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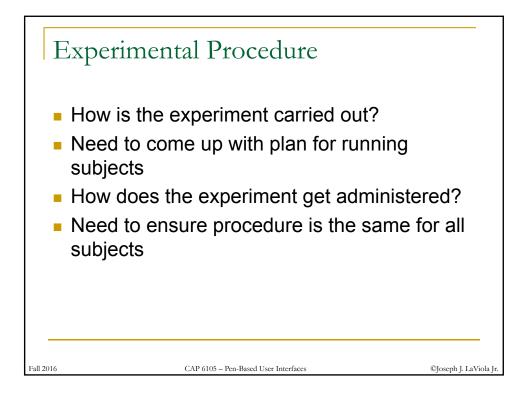


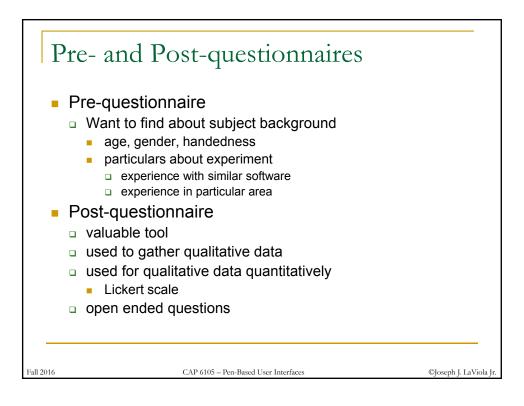


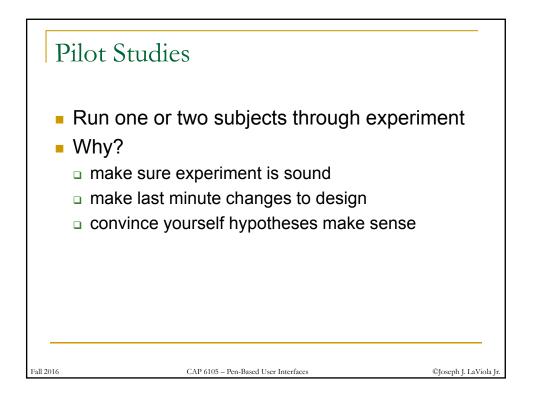


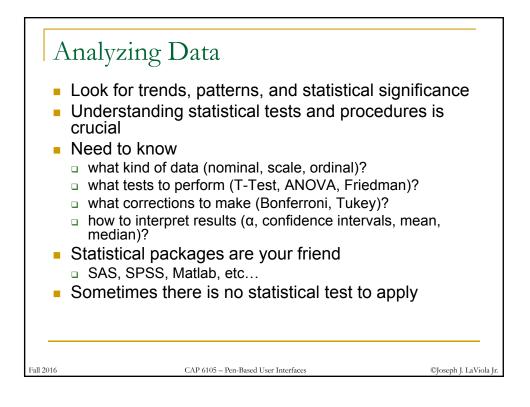








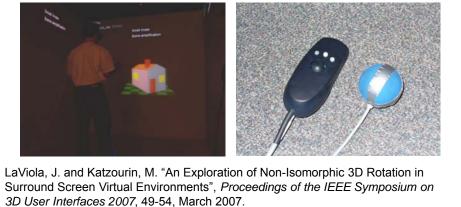




Example Experiment

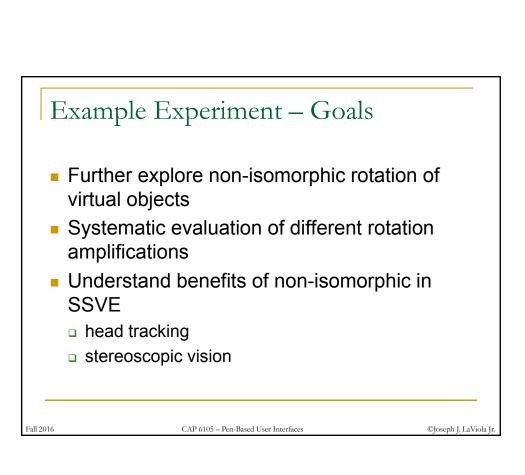
Fall 2016

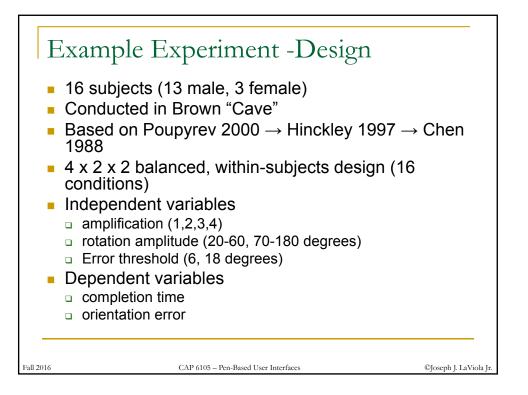
- Not pen-UI related but techniques still apply
- Exploration of non-isomorphic rotation in VE

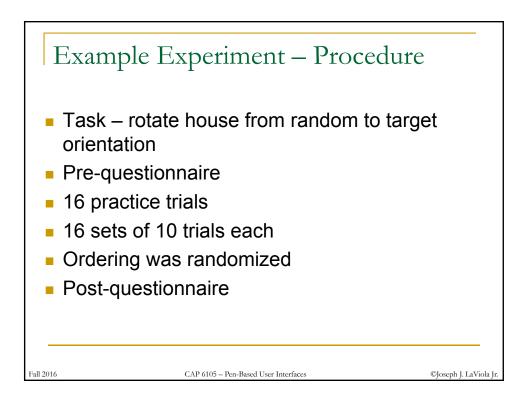


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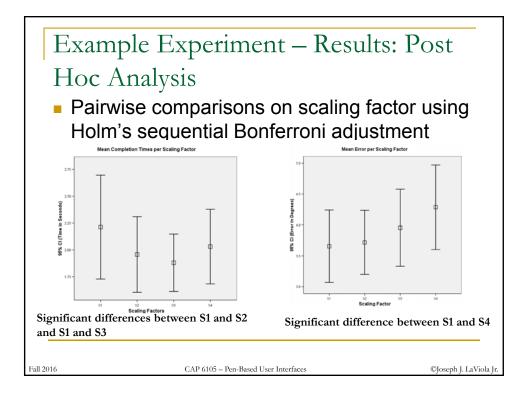
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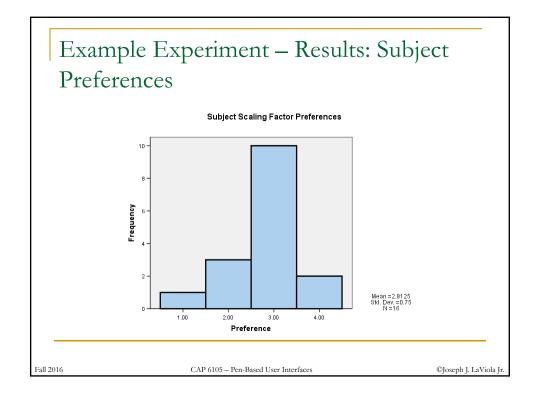


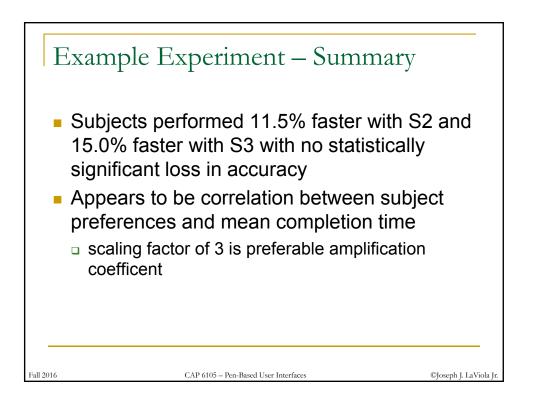




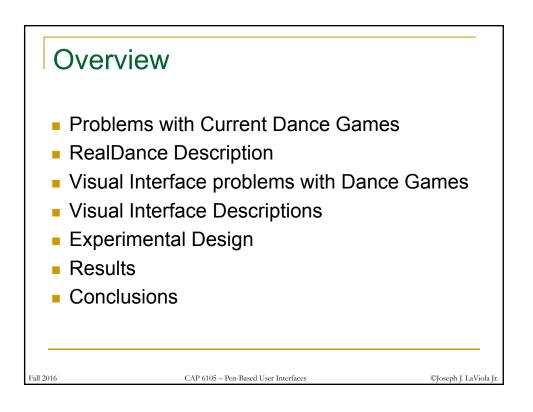
ures, three way $\frac{1}{1000}$ Time $\frac{1}{1000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1$	ANOVA Error $F_{3,13}=4.8, p<0.05$ $F_{1,15}=22.96, p<0.05$ $F_{1,15}=0.001, p=0.98$ $F_{3,13}=1.575, p=0.243$				
a,13=3.26, p=0.056 ,15=13.66, p<0.05 ,15=55.46, p<0.05 a,13=0.29, p=0.83	F _{3,13} =4.8, p<0.05 F _{1,15} =22.96, p<0.05 F _{1,15} =0.001, p=0.98				
, ₁₅ =13.66, p<0.05 , ₁₅ =55.46, p<0.05 _{3,13} =0.29, p=0.83	F _{1,15} =22.96, p<0.05 F _{1,15} =0.001, p=0.98				
_{,15} =55.46, p<0.05 _{3,13} =0.29, p=0.83	F _{1,15} =0.001, p=0.98				
_{3,13} =0.29, p=0.83	.,				
	F _{3,13} =1.575, p=0.243				
_{9,13} =0.87, p=0.523	F _{3,13} =0.562, p=0.649				
_{1,15} =5.03,p<0.05	F _{1,15} =0.573, p=0.46				
_{3,13} =0.73, p=0.55	F _{3,13} =0.97, p=0.436				
S = scaling factor T = error threshold A = angle					
	_{3,13} =0.73, p=0.55				

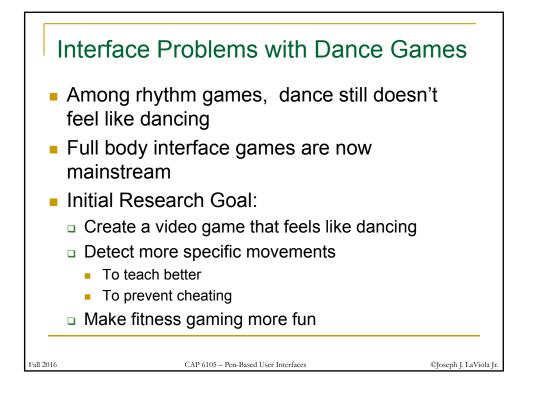




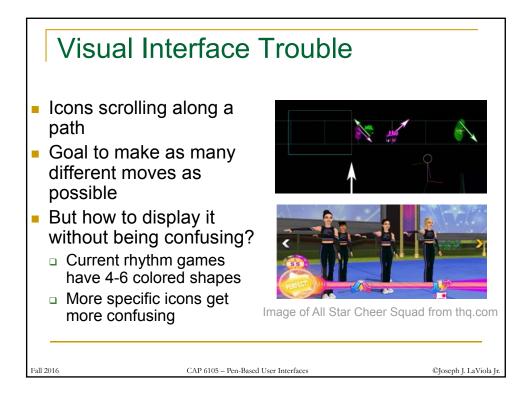


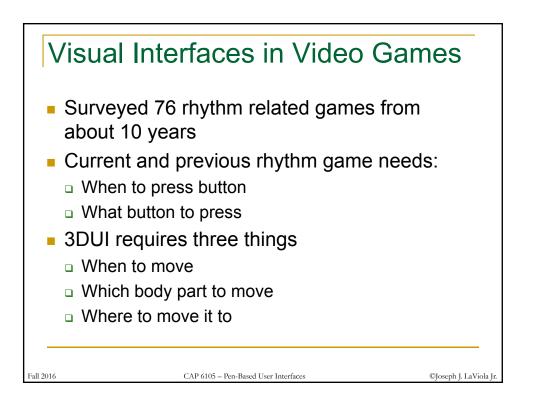
Understanding Visual Interfaces for the Next Generation of Dance- Based Rhythm Video Games					
	Emiko Charbonneau	Andrew Miller	_		
	Chadwick Wingrave	Joseph J. LaViola Jr.			
University of Central Florida					
Fall 2016	CAP 6105 – Pen-Based Use	r Interfaces ©Joseph J. La	Viola Jr.		

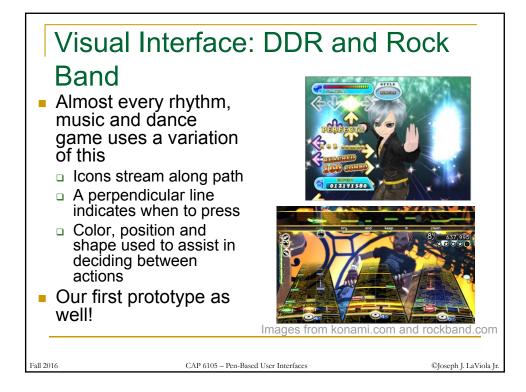


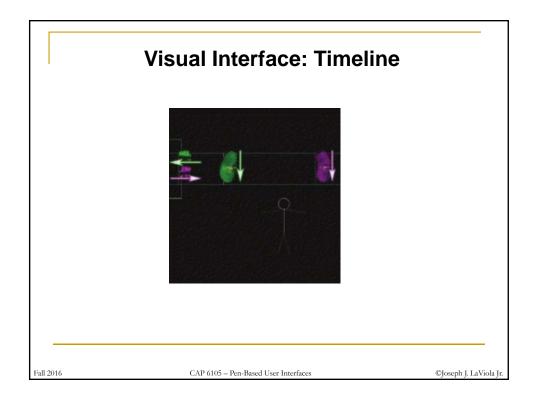


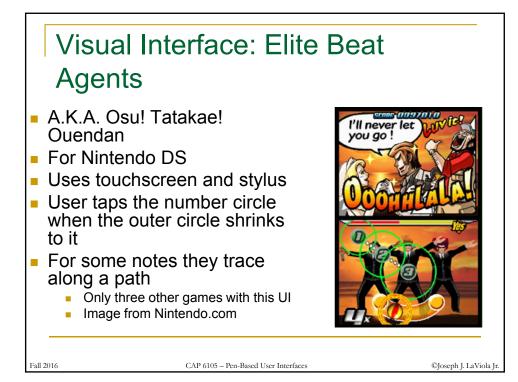


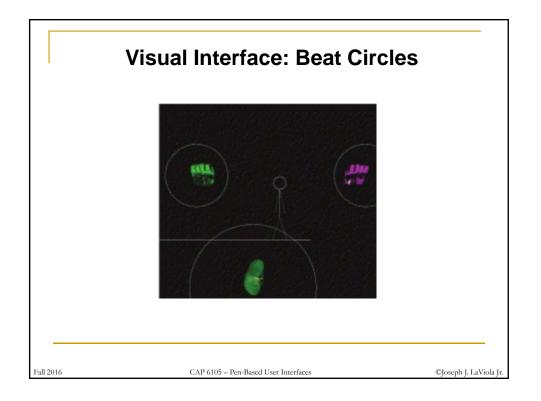




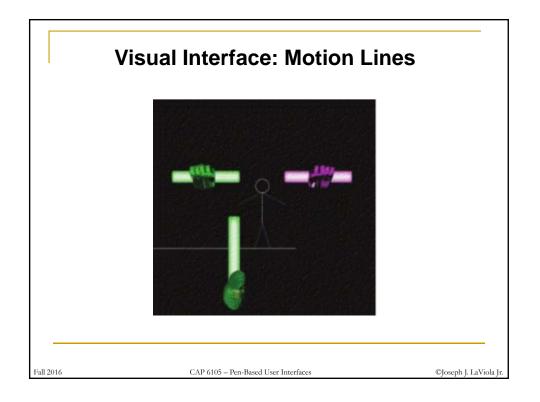


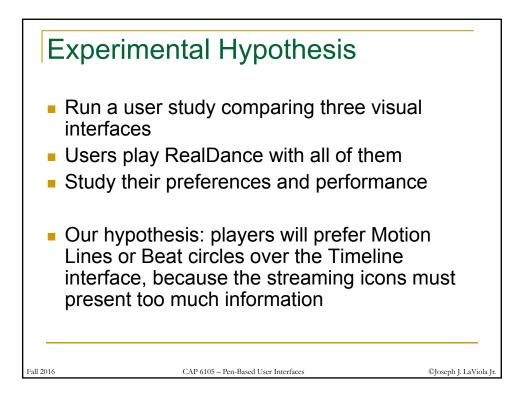


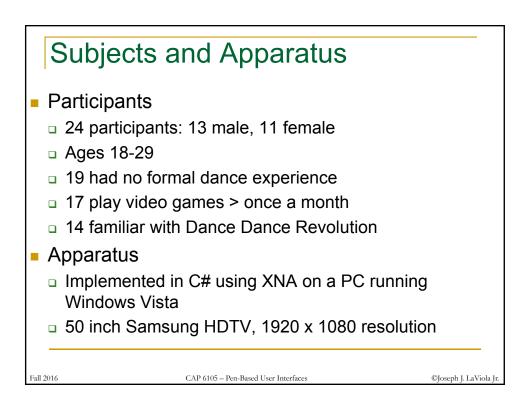


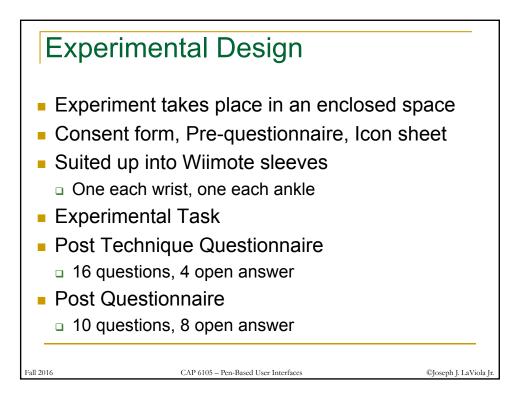


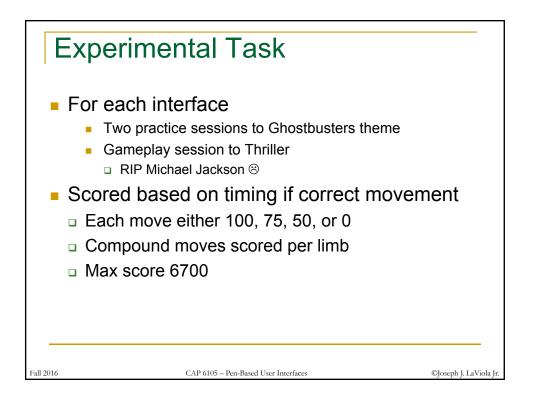


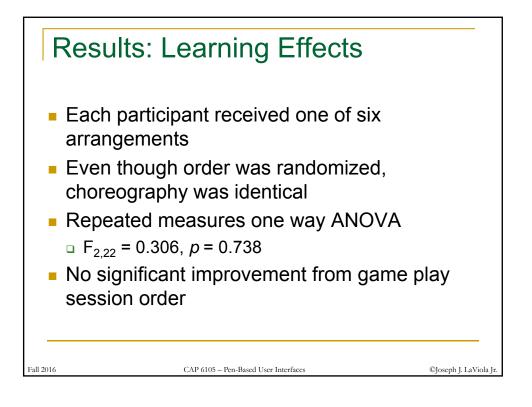


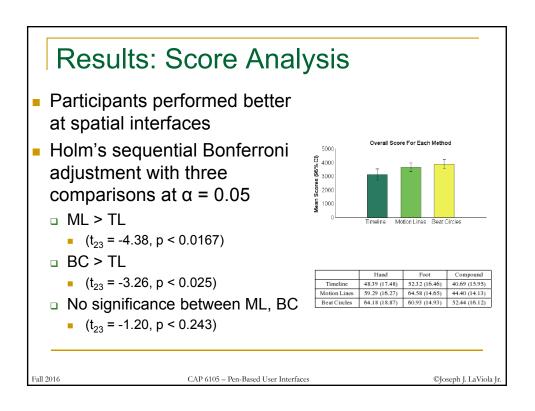


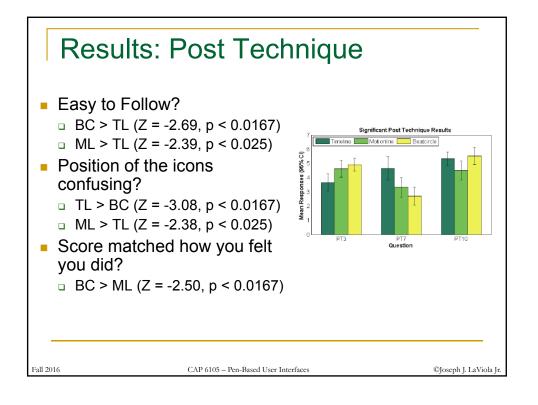


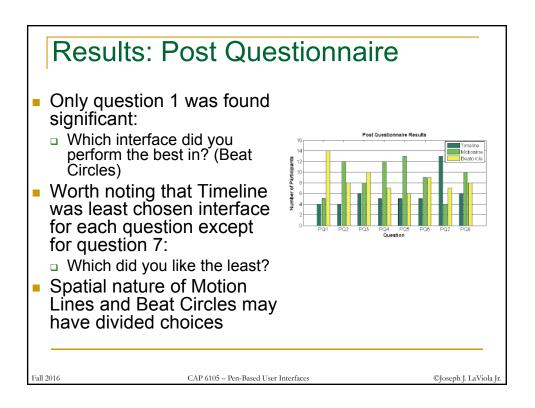


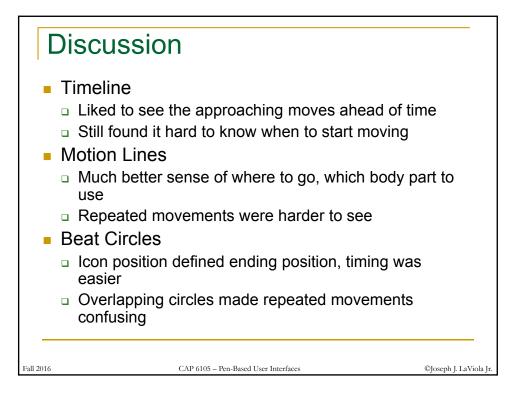


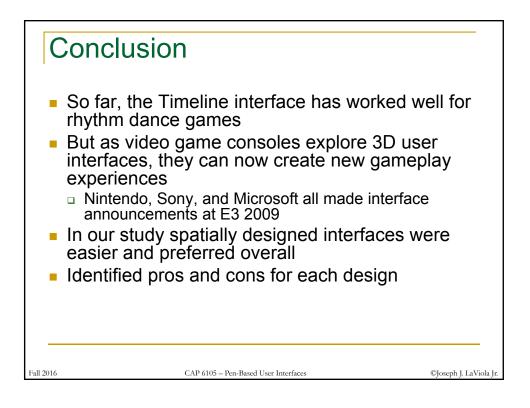












Readings

- LaViola, J. "An Initial Evaluation of a Pen-Based Tool for Creating Dynamic Mathematical Illustrations", In the proceedings of the Eurographics Workshop on Sketch-Based Interfaces and Modeling 2006, 157-164, September 2006.
- Bragdon, A., Zeleznik, R., Williamson, B., Miller, T., and LaViola, J. "GestureBar: Improving the Approachability of Gesture-based Interfaces", Proceedings of ACM CHI 2009, 2269-2278, April 2009.
- LaViola, J., Leal, A., Miller, T., and Zeleznik, R. "Evaluation of Techniques for Visualizing Mathematical Expression Recognition Results", *Proceedings of Graphics Interface 2008*, 131-138, May 2008.

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