CompSci 94 A game with two levels November 12, 2024



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CompSci 94 Fall 2024

Announcements

- Assignment 6 (Final project) is out see deadlines on Assignment page
- TODAY, Nov 12: deadline to request an assigned partner
- Added 4th free extension!
- Exam 3 is Nov 19
 - See exam 3 study materials on Nov 19 date on our calendar page
 - Some review today, some next time

Exam 3 Logistics

- Exam 3 is on Tuesday, Nov 19
- Covers topics through Thursday, Nov 14 lecture
- Old tests are on the calendar web page
- Exam 3 is on paper
- See Exam 3 reference sheet part of the exam
- Exam 3 is your own work
- Bring only a pen of pencil

Exam 3 topics

- Topics from last time (loops, arrays, ifs, procedures, parameters, etc)
- Array index loops (see penguin classwork)
- Writing functions
- Event programming
- Changing Scenes (we do on Thursday)

Events 1

(this) add SceneActivationListener				
declare procedure sceneActivated				
do in order				
this myFirstMethod				
Image: Stellar Stella				
declare procedure timeElapsed Event getTimeSinceLastFire				
do in order				
drop statement here				
this addKeyPressListener add detail				
declare procedure keyPressed I Levent isLetter I Levent isDigit Levent getKey I Levent isKey key:				
do in order				
if Cevent isKey CST is true then				
drop statement here				
else				
this addKeyPressListener add detail declare procedure keyPressed [event isLetter [event isDigitevent getKey [event isKey key do in order ifevent isKey [S] is true then drop statement here else drop statement here compSci 94 Fall 2024 5				

Events 2

	(this.panda), (this.panda2), (this.panda3) add detail			
	declare procedure mouseClicked			
	do in order			
	if Cevent getModelAtMouseLocation T == Chis.panda T is true then			
	drop statement here			
	else			
	drop statement here			
2				
(this addCollisionStartListener [new SThing]] { (this.bunny } 7 , [new SThing]] { (this.panda), (this.panda2), (this.panda3) } add detail 7 declare procedure collisionStarted ([event] getSThingFromSetA) ([event] getSThingFromSetB)				
	drop statement here			
	(this) addDefaultModelManipulation			

Events – when does it start, how does it work?

• sceneActivated

addTimeListener

• keyPressed

Events – when does it start, how does it work? (part 3)

defaultModelManipulation

How do you create a Scorer (or counter)

• A scorer/counter

How do you create A Countdown Timer

Looping in Array – when and how to use each one

• For each in

• Each in together

• Indexing loop

Q1) Given an array of pandas, how do I create an array of objectMarkers that match the pandas in the same order



🛓 Custom Array >				
prev	iew:	[new Panda]] { (this.panda), (this.panda2), (this.p		
type:	type: <a>Panda]			
value:	[0]	(this.panda)		
	[1]	(this.panda2)		
	[2]	(this.panda3)		
	add			

Q2) Given pandas moved, what type of loop do you use to get them all back to their objectMarkers?







Q3) Given pandas moved, explain in words how to get them all back to their objectMarkers?







Q4: If we want to play a two level game, what might be the best game flow?

Class Today

• Build game with two levels

