CompSci 94 A game with two levels November 17, 2022



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CompSci 94 Fall 2022

Announcements

- Assignment 5 is due tonight
- Assignment 6 (Final project) is out see deadlines on Assignment page

- Exam 3 is Nov 29
 - See exam 3 study materials on Nov 29 date on our calendar page
 - Some review today, some next time

Exam 3 Logistics

- Exam 3 is on Tuesday, Nov 29
- Covers topics through today, Nov 17 lecture
- Old tests are on the calendar web page
- Will put up old Sakai quizzes
- 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

Events 1

(this) add SceneActivationListener					
declare procedure sceneActivated					
do in order					
this myFirstMethod					
Image: Strategy of the strate					
declare procedure timeElapsed Ecevent getTimeSinceLastFire					
do in order					
drop statement here					
this addKeyPressListener add detail					
declare procedure keyPressed [[Event] isLetter] [[Event] isDigit] [[Event] getKey] [[Event] isKey key: [
do in order					
if Cevent isKey ST is true then					
drop statement here					
else					
Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here Image: Section of the statement here					

Events 2

1.0				
	(this.panda), (this.panda2), (this.panda3) add detail add detail add detail add detail add detail (this.panda2), (this.panda3)			
	declare procedure mouseClicked Event getScreenDistanceFromLeft Event getScreenDistanceFromBottom			
	do in order			
	if [(<u>Cevent</u> getModelAtMouseLocation T == (this.panda) T is true then			
	drop statement here			
	else			
	drop statement here			
	(this.panda), (this.panda2), (this.panda3) add detail			
declare procedure collisionStarted Cevent getSThingFromSetA Cevent getSThingFromSetB				
	do in order			
	drop statement here			
	This addDefaultModelManipulation			
	addboldalahodolmanipulation			

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

• sceneActivated

addTimeListener

• keyPressed

Events – when does it start, how does it work? (part 2)

addMouseClickOnObjectListener

addCollisionStartListener

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: 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

