Alice Dance Challenge

Objectives

- Understand how to setup a scene in Alice.
- Understand how to create a procedure (method) in Alice
- Understand the purpose of looping.

Outcomes

Task 1	<u>Setup a scene</u>
Task 2	Setup camera angles
Task 3	Create Dance procedure using loops.

Procedures can generally be described as methods that perform an action. Only needs to be created once and can be inherited by many objects.

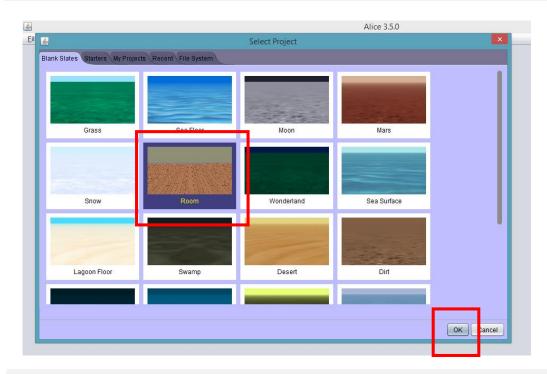


Same dance routine will be applied to all of the characters.

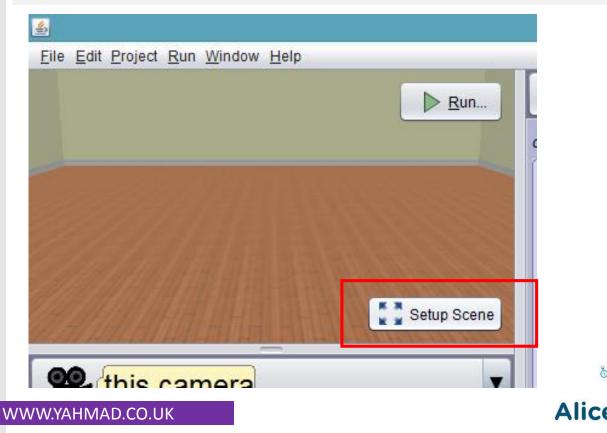


Task 1: Setup a scene in Alice.

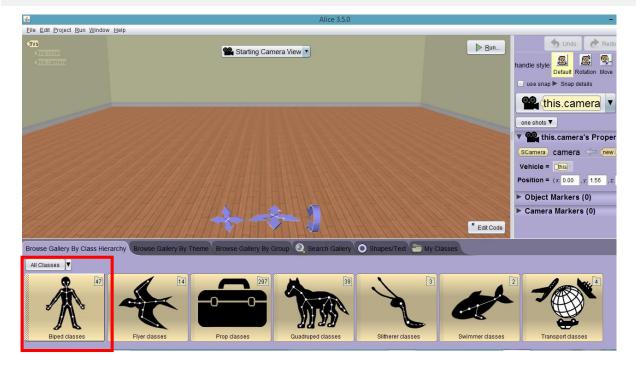
1) Select a background and then click on OK.



2) Click on Setup Scene.



3) Click on Biped classes.



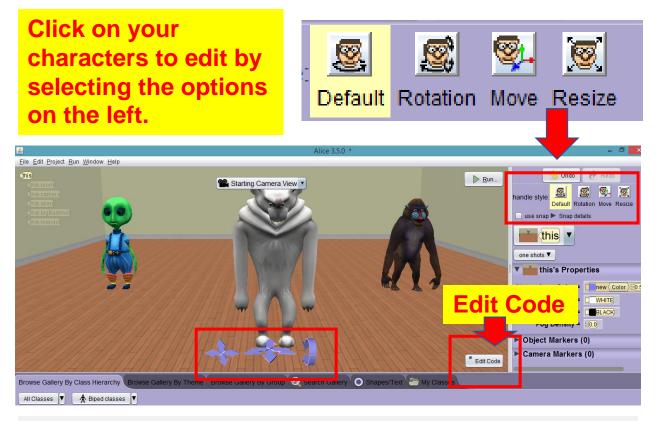
4) Click on Biped classes and select your first character.



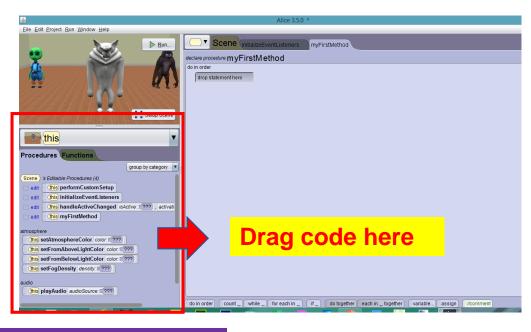


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6) Add up to three characters. You can include more characters if you like. Then click on edit code.



7. Position the central character at the front of the stage.





Alice 3

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Object Markers (0)

Add Object Marker...

Add Camera Marker...

initial property values

RED

value type:

name:

initializer:

color id: 🗌

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Camera Markers (0)

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Task 2: Setup camera angles.

8. Click on Setup Scene and set the camera angle.

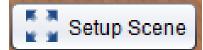


-

SCameraMarker

(new (SCameraMarker)

closeup



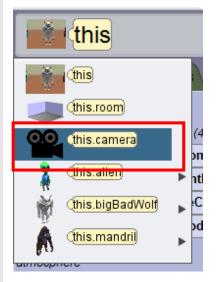
Tip: Set the camera angle before you click on camera marker. Use the arrows below to position the camera.



9. Click on Camera Marker and then Add Camera Marker for the starting position. Then reposition the camera and create another camera angle for a close up.



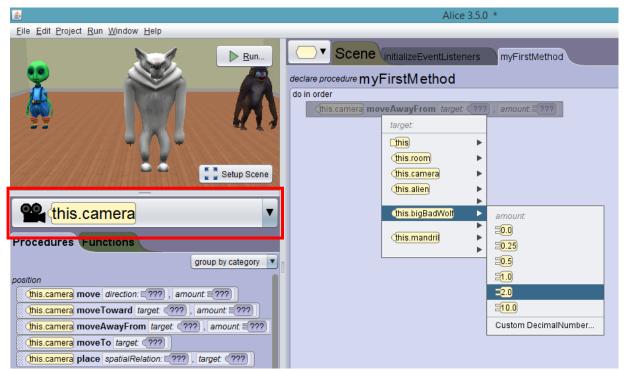
Alice 3

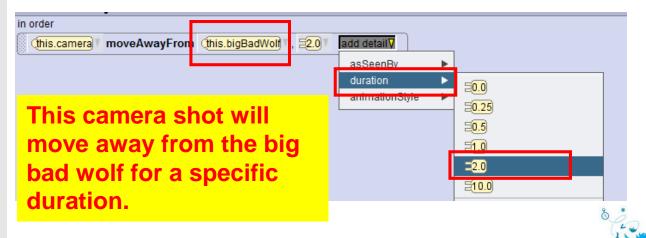


10. Go back to code view and then select the camera option.

11. Drag in the camera scripts onto the code window.

Experiment with different options





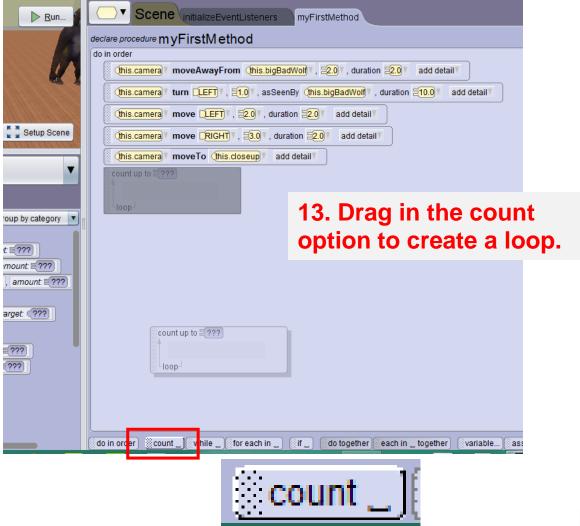
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12. Camera angles have now been set. You can set your own options.

declare procedure myFirstMethod

do in order
(this.camera) moveAwayFrom (this.bigBadWolf), 52.07, duration 52.07 add detail)
(this.camera) turn [LEFT] , =1.0 , asSeenBy (this.bigBadWolf) , duration =10.0 add detail
(this.camera) move [LEFT], 20, duration 20, add detail
(this.camera) move CRIGHT , 53.0 , duration 52.0 add detail
(this.camera) moveTo (this.closeup) add detail





Alice 3

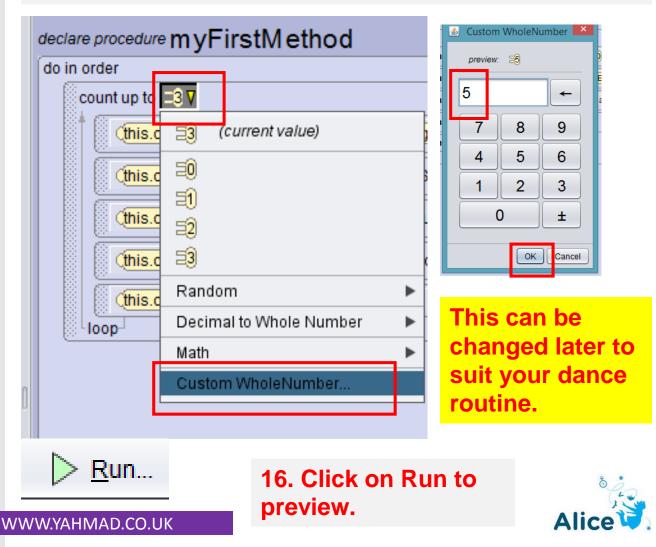
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14. Drag all camera codes in the count loop.

declare procedure myFirstMethod

ount up to 🗐 T (this.camera) T moveAwayFrom (this.bigBadWolf T, 20, T, duration 20, T) add detail T
(this.camera) turn [LEFT], E1.07, asSeenBy (this.bigBadWolf), duration E10.07 add detail)
(this.camera) move [LEFT], 2.0, duration 2.0, add detail
(this.camera) move CRIGHT , E3.0 , duration E2.0 add detail
(this.camera) moveTo (this.closeup) add detail

15. You can set a custom number of times for the cameras angles to loop.



Task 3: Create dance procedure (method)

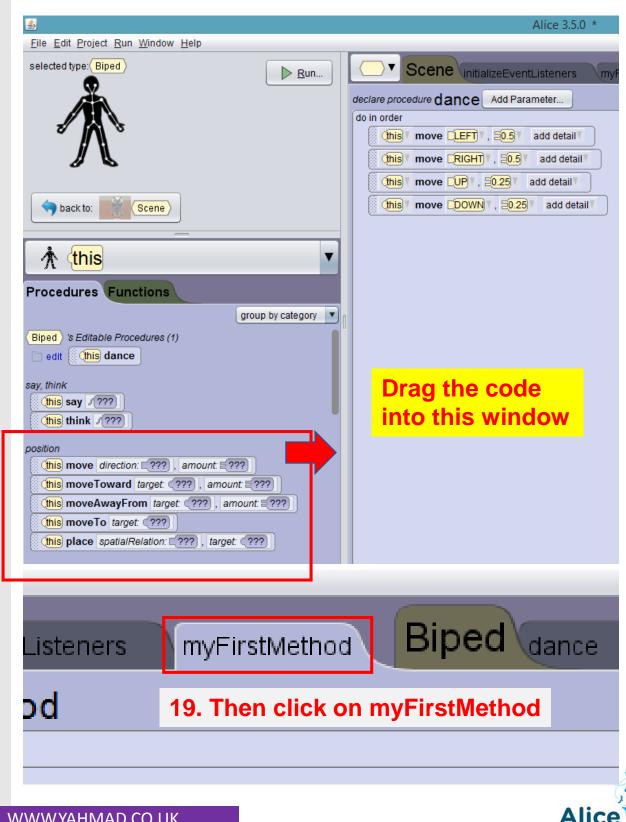
17. Click the ICON to left of Scene >> Biped >> Add Biped Procedure

	Scene initia	lizeEventListeners myFirstMethod
	classes	/lethod
	(Scene) (9)	•
	Biped	Biped
10 M	Alien	Add Biped Procedure
ne	BigBadWolf Mandril	Add Biped Function Add Biped Property Add Biped Property
<u></u>	(this.camera)▼ mo	ve CRIGHT) 7, 23.0 7, duration 22.0 7 a
<u>E</u> il 🔮	Add Bi	ped Procedure X
	preview: declare procedure da	ance
	name: dance	

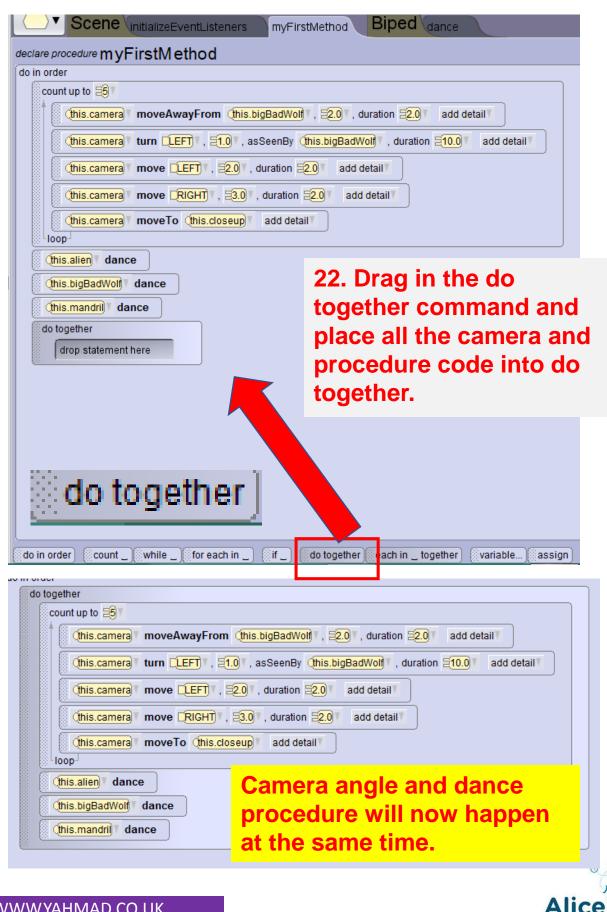
Cancel



18. Add some codes for basic movements (left, right, up and down)

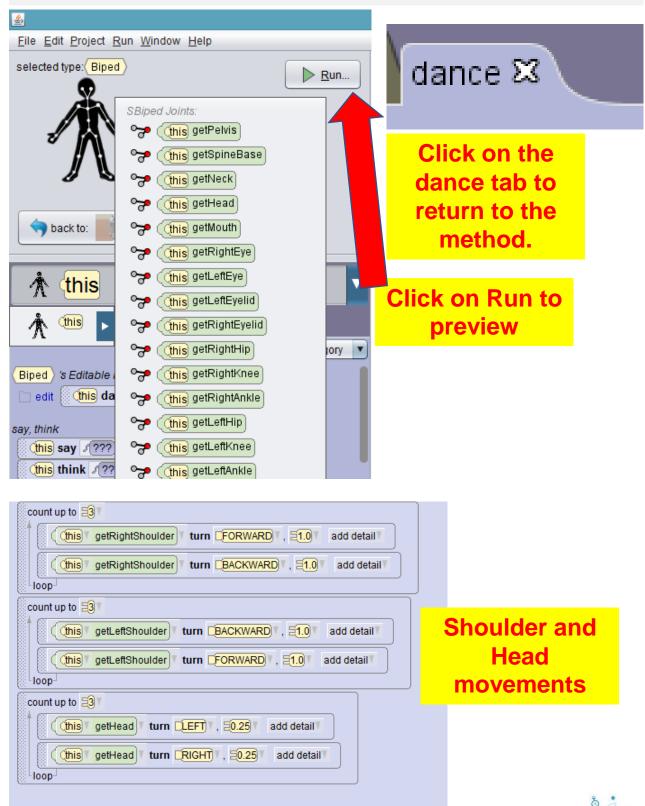






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23. Code can be applied to move certain parts of the body. This can then be looped.

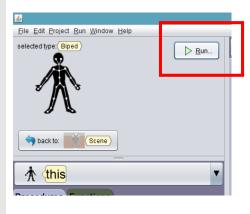


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24. Movements can be placed in do together and can then happen at the same time.

CO	unt up to 🗐
	(this getRightShoulder) turn [FORWARD], 51.01 add detail
	(this getRightShoulder) turn CBACKWARD T, E1.0 add detail
L	oop
со	unt up to 🗐
	(this getLeftShoulder) turn CBACKWARD (, 21.0) add detail
	(this getLeftShoulder) turn [FORWARD], =1.0 add detail
L	oop_
со	unt up to 🗐 🛛
	(this getHead) turn [LEFT], 20.25 add detail
	(this getHead turn CRIGHT , 20.25 add detail)
L <mark>ا</mark>	DOD



preview





Click on Run to

25. Add additional movements to your dance method.

(this getSpineBase ~ Procedures Functions

count up to 🗐
(this getSpineBase) turn [FORWARD], 20.25] add detail
(this getSpineBase) turn CBACKWARD (, 20.25) add detail
§ └loop┘
count up to 🗐 🛛
turn FORWARD , 20.25 add detail
(this] getRightKnee] turn [BACKWARD] , 20.25] add detail]
(this getLeftKnee) turn CBACKWARD , 20.25 add detail
(this getLeftKnee) turn CFORWARD (, 20.25) add detail

