Learn to program on phone with Pocket Code

Lesson 10: Magic Panda



About CEL

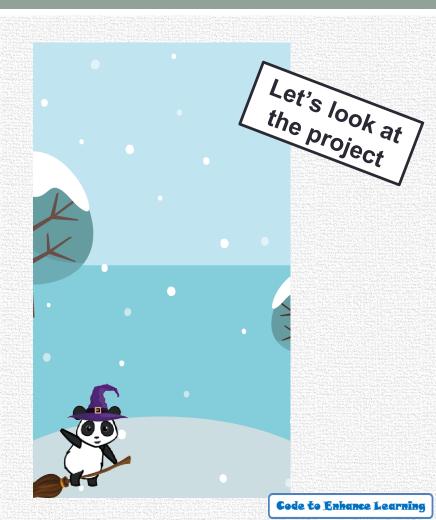
Code to Enhance Learning is nonprofit uses coding as a tool to build critical thinking, creativity, collaboration and perseverance in children in grade 4-9.



Lesson 10 Magic Panda

Objective:

We will make an application magic panda.



Let's Recall:

- 1. What is Sequence?

 A logical Order
- 2. What is Events?

 An event in an action due to which something happens.
- 3. What is Loop?

 Repeats a sequence of instructions
- 4. What is Nested Loop?

 Loop within a Loop.
- 5. What is Conditionals?

 Conditionals are expressions that evaluate to either true or false.

Let's Recall:

- 6. What is Parallelism?

 The ability of the brain to do many things (aka, processes) at once
- 7. What is Broadcasting?
 Instructions are transmitted from a sprite or backdrop to cause other things to happen.
- 8. What are Operators?

Operators are a part of an expression and allows us to operate on values i.e. operands. The expression returns a value.

9. What is Variable?

Variables are used to store information to be referenced and manipulated in a computer program.

Accelerometer

An **accelerometer** is an electromechanical device in our phone that is used to measure acceleration forces.

In our phone it helps to measure the dynamic of sense movement or vibrations



Talk to your partner:

 Any use of Accelerometer in our phone, you know?





Let's share the response.

Magic Panda: (Teacher Models)

Let's do abstraction (i.e. to identify important details) to make understand project and make it simple

1) What will happen on the stage?

➤ When Scene starts, our sprite panda is a bottom left corner as we will shake our phone, if we shake it with high intensity, our panda will go out of screen and then there will be a sound of firework.

2) What sprite and backdrop will be needed on the stage?



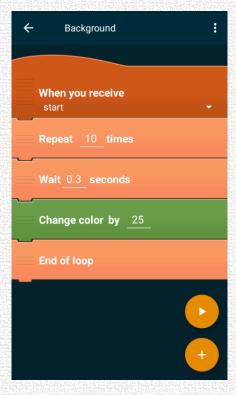


Magic Panda: (Teacher Models)

Let's make the project and write codes for the sprites...



Codes/Programs



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Magic Panda: (Teacher Models)

Let's make the project and write codes for the sprites...

Sprite



Codes/Programs



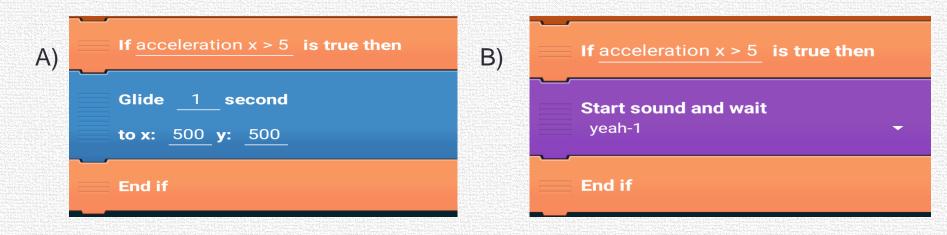


Quiz:

1. What is Accelerometer?

Quiz:

2. Which Code Block will help the panda move if x acceleration is greater than 5?



Closing:

- What did we do today?
- What is one thing that you liked in the class the most?
- What did you learn?

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Website: www.codetoenhancelearning.org