

Build a Platform Game

Part 1

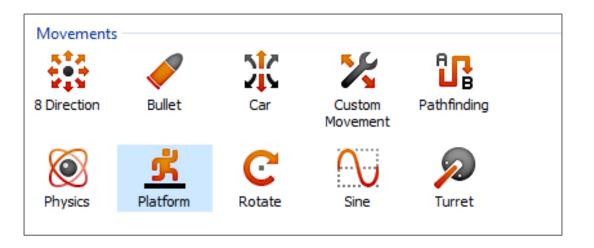


Play the game we are building: click

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New Behavior

 Platform - A sprite will run, jump and fall on any "solid" object. This is games like Super Mario Brothers and tend to have large layouts.



Today's Game

Challenge: Create your first platform game that matches the sample game played earlier.

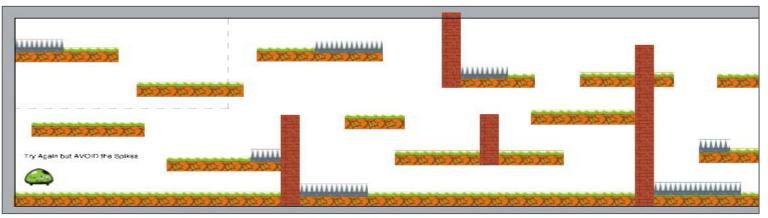
Goal: Avoid the spikes and get to the end of the game

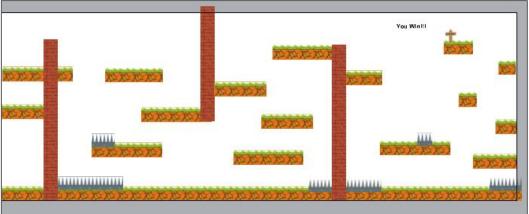
Features:

- Add Tiled Background for your ground, spikes & walls
- Add hero and add Platform behavior
- Add Keyboard behavior so your hero faces the right direction
- Add a restart if your hero dies
- Add reward at the end

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Final Game





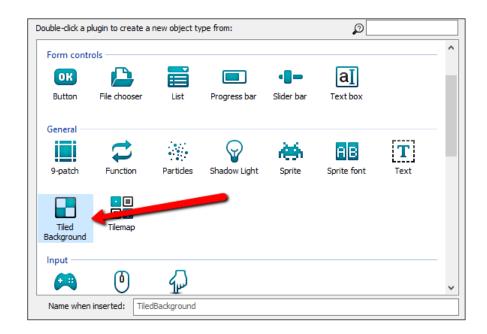
Setup Layout

- Large layout leave the "Window Size" the default
 - Set Layout to "5000, 1000"

▼≣ A↓		
☐ Layout properties		
	Name	Layout 1
	Event sheet	Event sheet 1
	Active layer	Layer 0
	Unbounded scro	No
+	Layout Size	5000, 1000
+	Margins	500, 500
	Effects	
	Add / edit	Effects
Project Properties		<u>View</u>
More information		<u>Help</u>

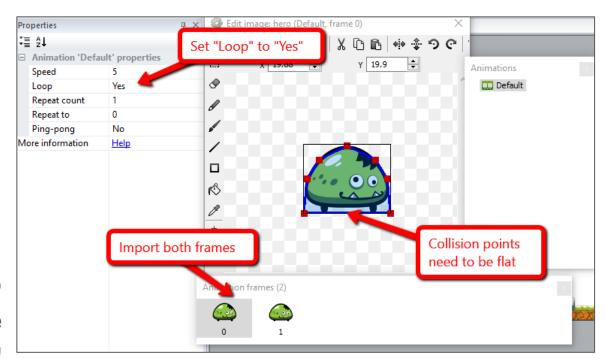
Create Tited Background

- Tiled Background is similar to a sprite but it automatically repeats
- Perfect for ground, background, and walls
- Images MUST be the right size when editing
- Use for our "ground", "wall", and "spikes"



Add Hero

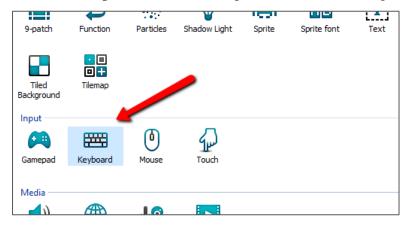
- Add our hero using the two images provided
- You MUST adjust the collision points, or he will not walk correctly
- ADJUST hero's "jump strength" to 800 or he won't make the jumps!





Hero Faces the Right Direction

Add "Keyboard" object to the layout (does not show up on the layout)



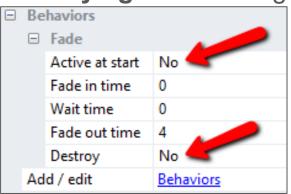
Set the hero's "Mirror" property, based on which arrow key is pressed





Add Try Again Message

- Add new Text, adjust text and set initial visibility to "invisible"
- Add "Fade" behavior to the "try again" message.
- Adjust properties:



Restart event





Add "Win" Prize & Message

- Add "finish" sprite, place on the layout
- Add a "coin" sprite, place off the layout
 - Add "Physics" and "Destroy Outside of Layout" behaviors
- Add "Text" for "You Win", set initial visibility to "invisible"
- Event when reaching the "finish"

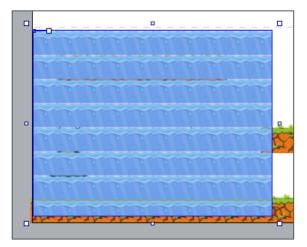


What is a Z Order

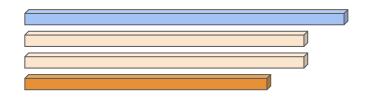
All objects are layered, new objects go on top.

Versus

- Right-click & select "Z Order"
 - Either "Send to top of layer" or
 - "Send to bottom of layer"



Top of layer



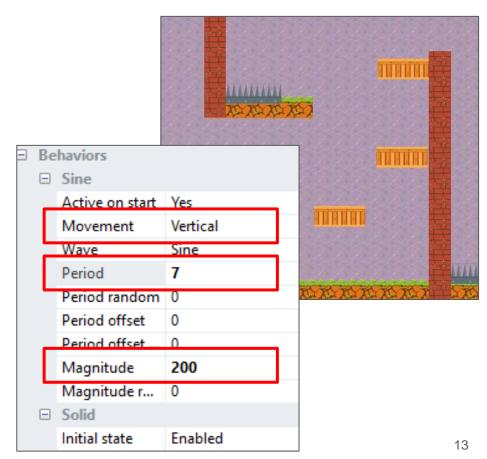
Bottom of layer



Add an "Elevator"

- Use the "sine" and "solid" behaviors
- Adjust "Movement" property to "vertical"
- Adjust "Period" property change how long each cycle takes
- Adjust "Magnitude" property to cover more distance







Additional Challenges

- Add a secret area
- Add a portal