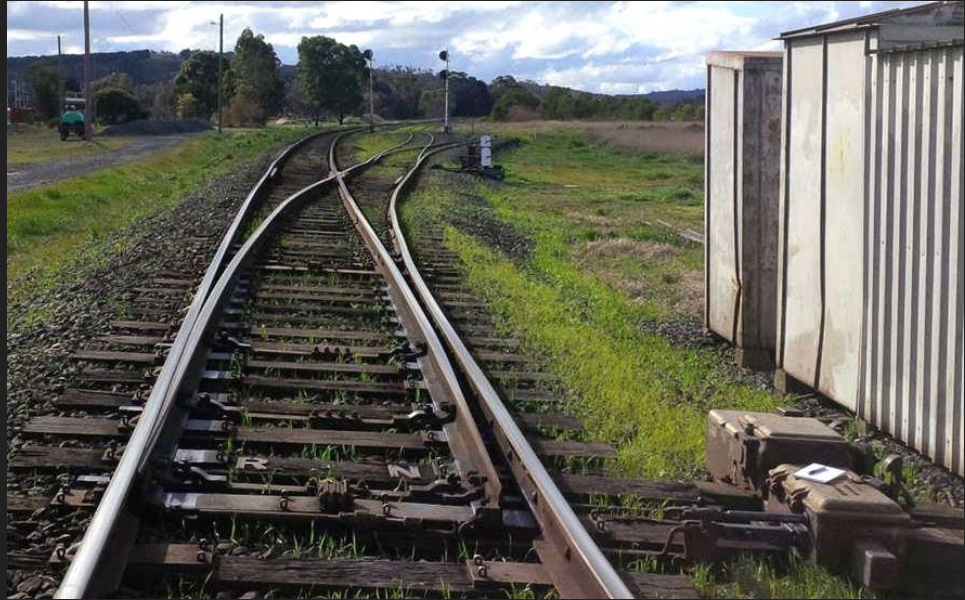


Variables & Conditions


Conditions

Conditions are like branches in a train track. They direct the flow of a program.


Action is made based on the truthfulness or falseness of the condition.



→  Player

On collision with  Laser

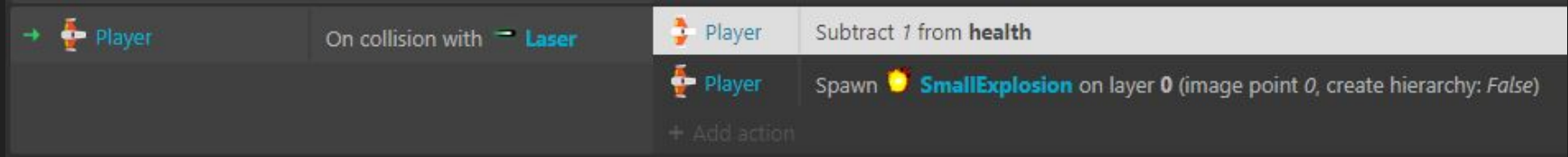
 Player

Spawn  **SmallExplosion** on layer 0 (image point 0, create hierarchy: *False*)

+ Add action





Variables

1. Variables store information for scripts to access and change
2. Have a name, eg: health
3. Have a type; number, boolean or string
4. Store only that type of data
5. Change variables in Actions








Variables & Conditions

Conditions can check variables for truthfulness and falseness too.

 Player	health \leq 0	 Player	Spawn  Explosion on layer 0 (image point <i>0</i> , create hierarchy: <i>False</i>)
		 Player	Destroy
		+ Add action	

Conditions can be chained together to check multiple conditions.

 Player	Is thrustOn	+ Add action	
 Audio	 Tag "thruster" is playing	 Audio	Play engine-thrust looping at volume 0 dB (stereo pan <i>0</i> , tag <i>"thruster"</i>)
		 Afterburner	Set visibility Visible
		+ Add action	

Challenge - Small Explosions on Enemy

When the Enemy is hit with a laser but not destroyed, make a smaller explosion and sound happen.

1. Find a smaller explosion effect and sound online and add them to the game.
2. Make them happen when a laser hits the enemy.

Challenge - Shield

Add a shield to the Player so that it can bump into enemies with a shield and explode when the shield is depleted:

1. Find a shield sprite online and add it to your game.
2. Make the Player bounce off enemies when the shield is equipped by adding an **Action->Player Reverse 8 Direction** to your code.
3. Give the shield health so that it depletes when it hits an enemy.
Hint: See the **Enemy->On Collision with Laser** and **Enemy->health <= 0** blocks.