

Minecraft Christmas Tree By Joshua Lowe

Original Code By Spencer Organ



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Getting Started

- Start by going into the Raspberry Pi menu and clicking on games, then Minecraft Pi. Select Start Game then Create New. Press ESC on your keyboard and minimise the window.
- 2. To load up EduBlocks, go to the Raspberry Pi menu in the top left hand corner of your screen. Go to Programming and select EduBlocks.

Let's Code

Now its time to build our code. We can drag our code blocks from the EduBlocks toolbar which is on the left hand side of the screen. The purple blocks in our code can be found in the Minecraft >> General tab and the pink ones in the BASIC tab. Take a look, they are colour co-ordinated. Drag the blocks onto the workspace as shown in the diagram.

from mcpi.minecraft import Minecraft mc = Minecraft.create() import mcpi.block as block import random import time edublocks.org

INFO:

This section of code will import the Minecraft & Time libraries. Also, the last block will connect to the Minecraft Server.



are green and Basic if they are pink. x, y, z = mc.player.getPos() x+ = 2

mc.setBlocks(-10 , 0 , -10 , 60 , 50 , 50 , block.AlR.id , 0)

mc.setBlock(x+3 , y , z , block.WOOD.id)

mc.setBlock(x+3 , y+1 , z , block.WOOD.id)

INFO: The first 2 blocks will get the players position and the first green block will clear the area and the next 2 blocks after that will create the tree trunk.

Our next 4 blocks can be found in the Minecraft>>Commands section of the toolbar.



INFO: These 4 blocks will create the leaves of the Christmas tree. The X, Y, Z coordinates correspond to the players position in the game



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If you want to change these colours, go to:

http://woolcolours.edublocks.org



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Save Your Code

Here is the full code:

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Page 4	
Save Your Code	Joshu
Here is the full code: from mcpi.minecraft import Minecraft	Lowe
mc = Minecraft.create() import mcpi.block as block import random	2 INFO: Your
import time x, y, z = mc.player.getPos()	program should look lik
mc.setBlocks(=10 , 0 , =10 , 60 , 50 , 50 , block.AlR.id , 0) mc.setBlock(x+3 , y , z , block.WOOD.id)	the one on the
mc.setBlock(x +3 , y +1 , z , block.WOOD.id) mc.setBlocks(x , y +2 , z , x +6 , y +2 , z , block.LEAVES.id , 0)	BOX. Go back
mc.setBlocks(x+1, y+3, z, x+5, y+3, z, block.LEAVES.id, 0) mc.setBlocks(x+2, y+4, z, x+4, y+4, z, block.LEAVES.id, 0)	and check through all of
(ist) = ([1,3,5,7,10,13]) while True:	your code to
C = random.choice(list) mc.setBlocks(x+3 , y+6 , z , x+3 , y+6 , z , block.WOOL.id , c)	have not made
time.sleep(0.5)	any mistakes.

INFO: Your program should look like the one on the left of this INFO **BOX.** Go back and check through all of your code to make sure you have not made any mistakes.

Before we run our code, lets save it. Click on the save button in the top right hand corner of the EduBlocks window. Name the file Christmas.xml

localhost:8081 says: Enter filename. Cancel OK Now select which folder you would like the save the file. The default folder 'Pi' will do.

Save in 10 day.			
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Recently Used	Diockly		21/01/17
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	III Desktop		17/02/17
Cesktop	(A) Documenta		23/09/16
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	38 Music		23/09/16
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			Ed-Blocks 355

EduBlocks.org @edu blocks



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Now it's time to run our code. Click on the run button in the top right hand corner of the EduBlocks window. Then click on the Minecraft tab to return to our Minecraft world. Now turn around and you should see your working Christmas Tree



Outcomes

In this tutorial we have learnt how we can use the EduBlocks program to interact with Minecraft to create a Christmas Tree.

Challenge: Add some more lights to the tree and make the lights flash more colours



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