

IFRN– Instituto Federal de Educação, Ciência e Tecnologia do RN English for Computing Professor: Sandro Luis de Sousa.



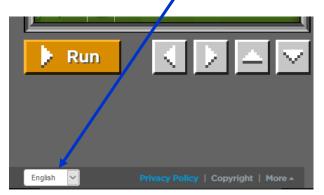
TUTORIAL (adapted by Sandro Sousa)

Minecraft is a sandbox (game level editor) video game created and designed by Swedish game designer Markus "Notch" Persson, and later fully developed and published by Mojang. The creative and building aspects of Minecraft enable players to build constructions out of textured cubes in a 3D procedurally generated world (source: https://en.wikipedia.org/wiki/Minecraft).

01. Let's read in English and code using Minecraft: hero's journey!

02. Go to https://studio.code.org/s/hero/stage/1/puzzle/1

03. The page must be in English. So, **Set the language** to **English** on the bottom left corner of your browser.



04. To complete the Hour of Code challenge, you'll need to write code to program The Agent. You'll work together with **The Agent (a digital assistant)** to clear any obstacles in your path, so you can pick up the items you'll need for your journey. Only **The Agent can** place and break blocks, and only you (in fact, the character you choose) can collect items.

05. **Minecraft screen** has three main parts. On the left is **Minecraft**. The middle area is the **Toolbox** with commands that The Agent can understand; and on the right is the **Workspace**. That's where you stack the commands to build your program to control <u>The Agent</u>.

Code the Agent	t on the adventure and needs the compass \gtrsim to prepare for the stoppen the gate.
	Workspace



06. The agent **agent agent a**



07. When it places the blocks like these minecart rails, it places underneath itself.

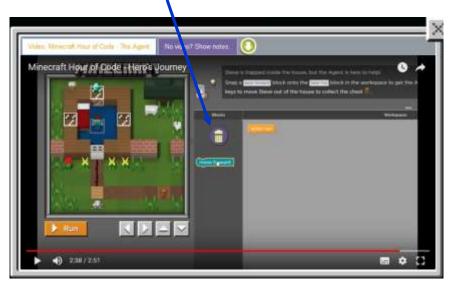


08. If you forget what to do, the instructions for each level are $\underline{at the top}$.

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09. If you want to try again, you can hit the blue Reset button to reset everything from where it started.

10. And if you need to delete a block of code, drag it from your Workspace to the Toolbox. When you do this, a <u>trashcan</u> appears.



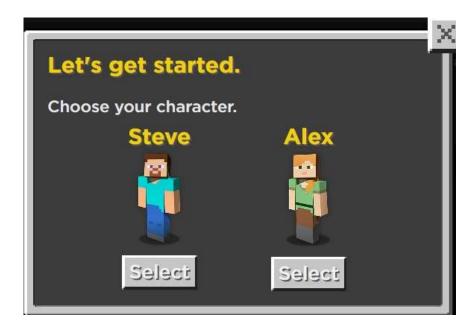
11. Remember to hit Run button



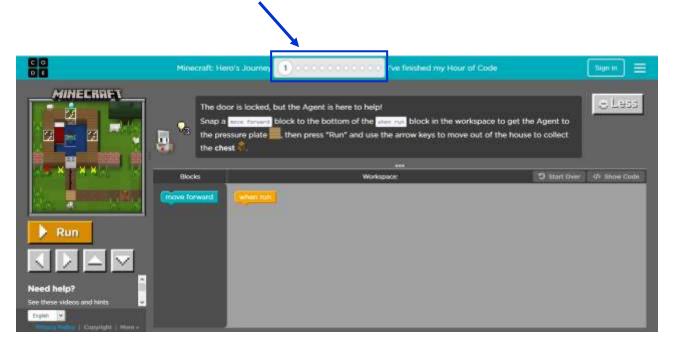
to make The Agent moving.

12. Choose a character to play.

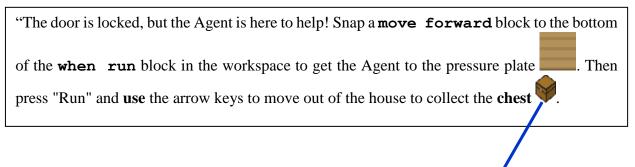
Remember: only The Agent can place and break blocks, and only you can collect items. The Agent can also hover over lava, but Steve and Alex can't!



13. Observe that you have <u>12 (twelve) steps</u> to complete your code.



14. Read the instructions that contextualize the game inside the box. Here's the transcript:





15. Once the Agent has run all of its code, you can move the player with the arrow keys!

16. By dragging and placing blocks in this puzzle, you've created a set of instructions in a computer language called Javascript. This code tells computers what to display on the screen. Everything you see and do in Minecraft also starts with lines of computer code like these: moveForward();

17. Ok. Now Continue reading and coding. Good luck!

18. When you finish your code, check out these words that appeared in the game. Do you know their meanings in Portuguese?

Vocabulary:.
Axe:
Birch: bétula.
Bucket: balde.
Compass: bússola.
Enchanted book:
Flint: rocha (pedra de isqueiro).
Ghast: criatura fantasmagórica.
Minecart:
Oax: carvalho.
Parkour: prática de transpor obstáculos em qualquer ambiente.
Pickaxe:
Plank: prancha.
Shovel:
Spruce: type of tree (pícea).
Steel:
The Nether: nome de uma dimensão diabólica no Minecraft.
Torch: