



Help nature regrow

Model forest regeneration after a bushfire.

What you will need:

- A computer
- Scratch

How does it work?

This project uses a free, online coding language called Scratch. It models how bushfires break out and how nature bounces back afterwards. To learn more about forest regeneration go to tinyurl.com/SN-bushfire

Bush script

- 1 Navigate to bit.ly/mhbushfires on your internet browser and open up the starter project in Scratch.
- 2 Click on the bush sprite (icon) on the right side of the screen.
- 3 Build the script (a set of instructions made from a stack of coding blocks) above, by dragging the colour-coded blocks from the list on the left-hand side of the screen.

- 4 Snap them together in the coding area. In Scratch, each project begins with the "green flag" hat block.
- 4 When you have created the first block of instructions, move on to the longer script underneath. This script places bushes randomly around the screen.
- 5 When you are done, check each line carefully.



Fire script

- 1 To add fire to the stage, click on the fire sprite and build this script.
- 2 Begin with the "green flag" hat block as usual.
- 3 Carefully copy the script above into the coding area in the middle of the screen, checking each line of code as you go.
- 4 On some of the blocks you will need to select the correct word

The Raspberry Pi Foundation is a UK-based educational charity working to put the power of computing and digital making into the hands of people all over the world. Discover more step-by-step coding projects at rpf.io/scienceandnature

