

Getting cereal about coding!

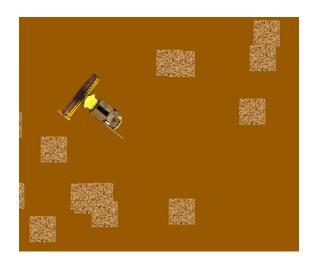


Wheat is Australia's most widely grown crop. In this project, we'll make a wheat harvest simulator in Scratch!

INTRODUCTION

What you will make

You will make a game where you control a combine harvester to harvest wheat.



What you will learn

- You'll learn how to create clones in random positions.
- You'll learn how to move the sprite using the keyboard.

What you will need

HARDWARE

A computer capable of running Scratch 3

SOFTWARE

Scratch 3:
either online
http://rpf.io/scratchon
or offline
http://rpf.io/scratchoff

DOWNLOADS

Offline starter project bit.ly/ccawheat

Additional notes for educators

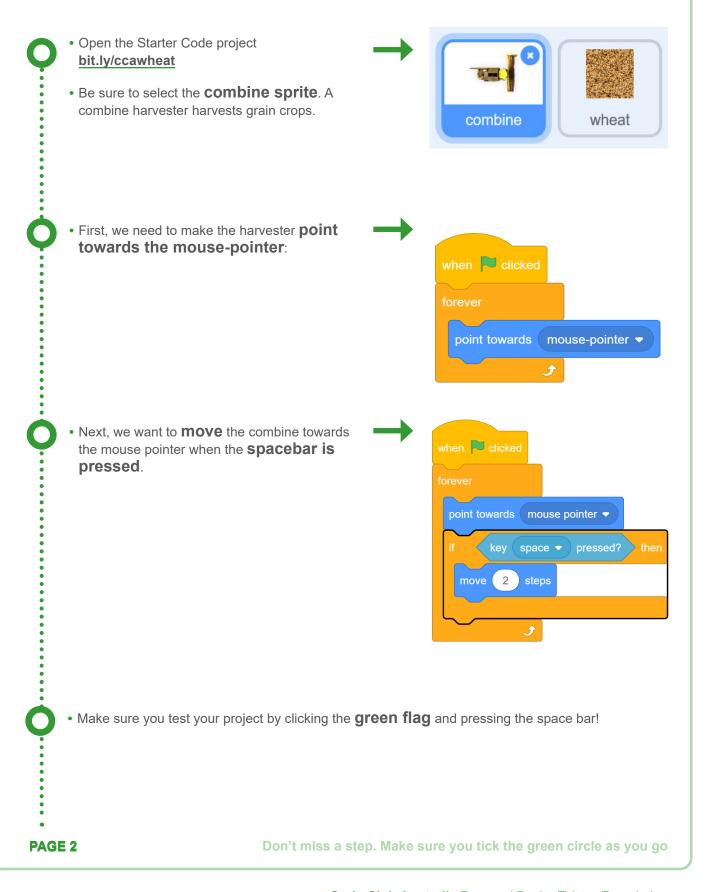
Here is a link to the completed project https://scratch.mit.edu/projects/407268934/

Code Club Australia recognises the Traditional Custodians of the land across Australia and their continuing connection to land, cultures, and communities. Australia's traditional owners are the world's first innovators.

PAGE 1

1. MAKE THE HARVESTER MOVE

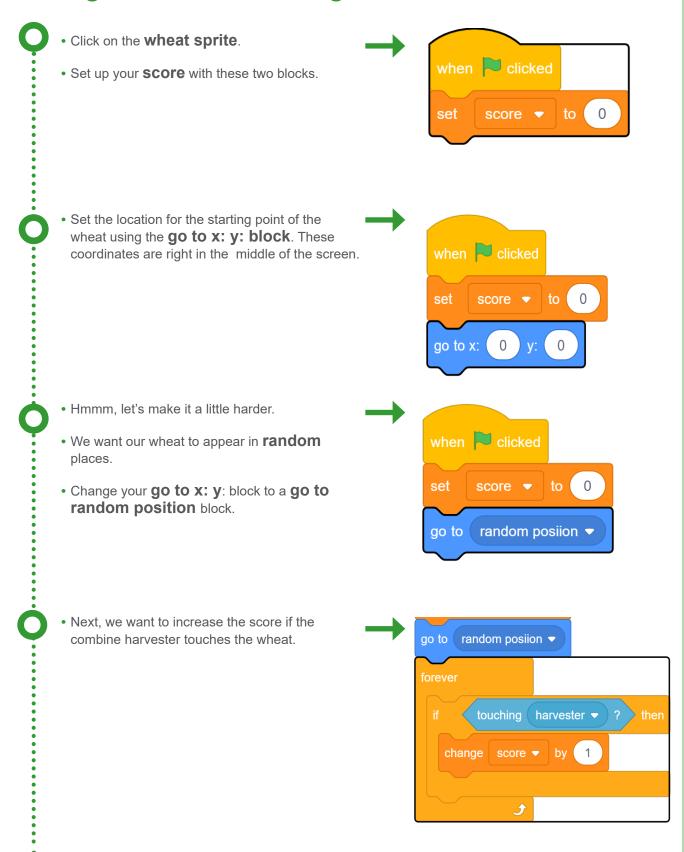
If we want to harvest wheat, first we need a harvester that can move.



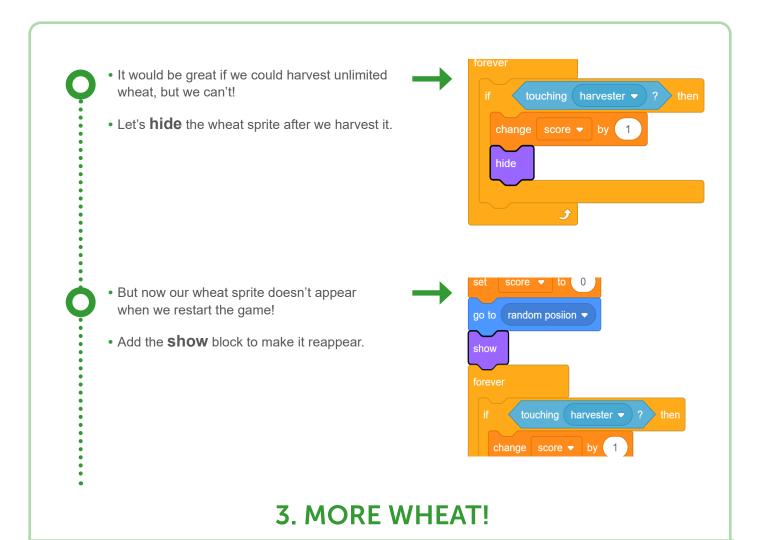
2. HARVEST THE WHEAT

Let's get to the harvesting!

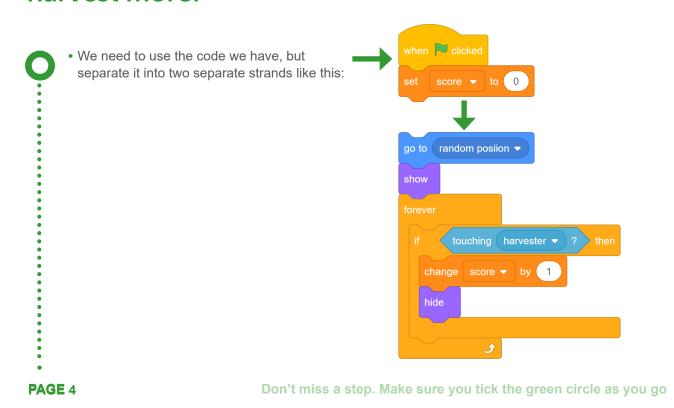
PAGE 3

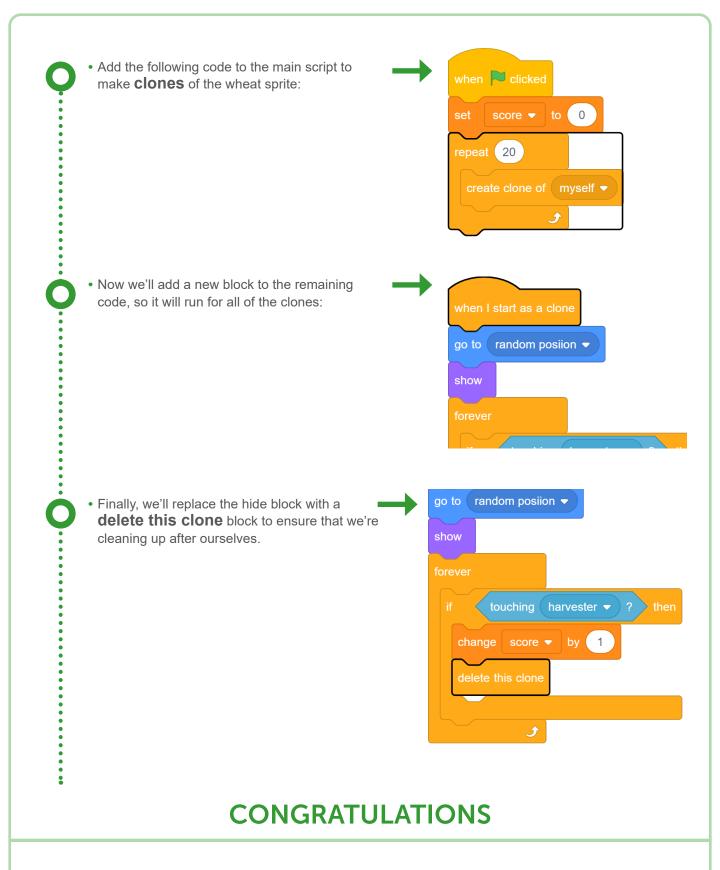


Don't miss a step. Make sure you tick the green circle as you go



We made one square of wheat, but we want to harvest more!





You've finished this project! Try one of the challenges below, or maybe add your own?

PAGE 5

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Challenges:

Even more wheat?

Currently, we only have 20 squares of wheat. Can you make 100 squares of wheat?

End game

Can you let the player know that they've finished the harvest?

Fix the harvester?

When the harvester gets too close to the mouse pointer it doesn't know which way to point and gets confused. Can you solve this problem?

Find out more...

Wheat is one of the most popular Australian crops. Farmers grow wheat on their farms and then it is turned into flour at a flour mill. Flour is used in all sorts of food; like bread, pizza and cake!

Farmers use big tractors, called combine harvesters to harvest their crops, including wheat, barley and other grains. It has a big comb that travels along the rows of wheat. A cutter bar inside cuts the ends off the wheat and then a sifter separates the grain. The stalks are left behind on the ground.

We've written a blog post, all about wheat and how it is farmed. Head to our blog for more info-medium.com/code-club-australia

And don't miss the other coding resources available on our website. There are videos, interview and more lessons all about Agriculture and other topics!

codeclubau.org/projects/topics/agriculture/



PAGE 6

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