

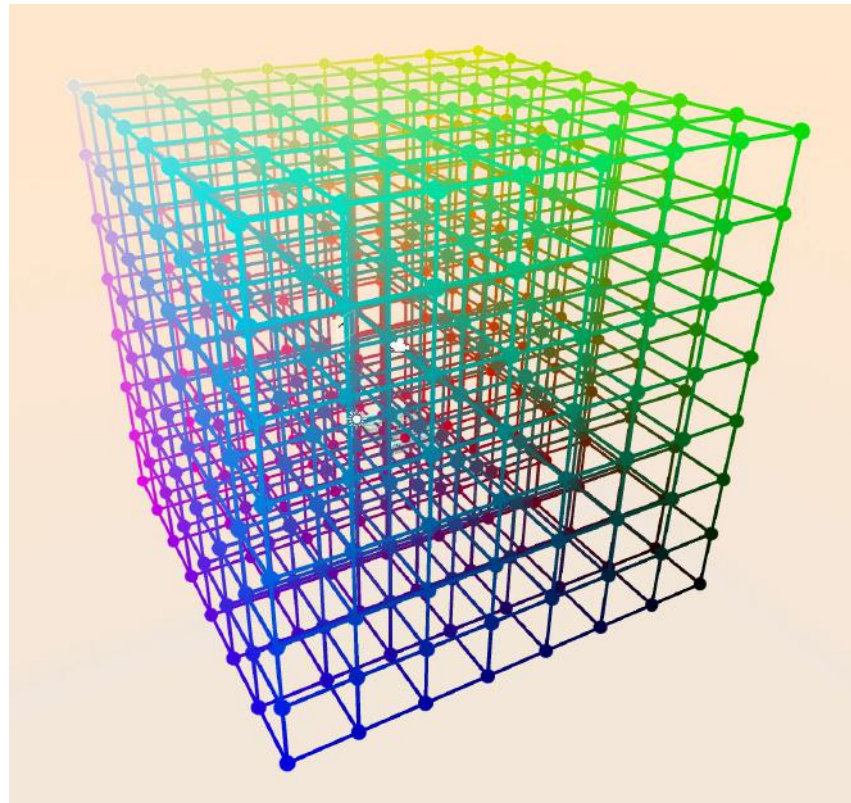
Color Cube

Binary Search

Guest Walkthrough

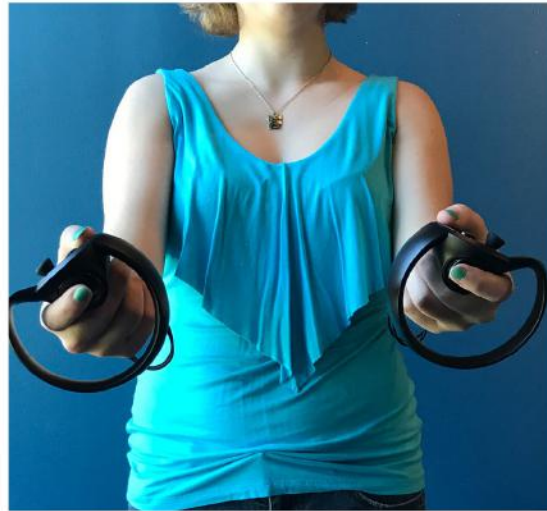
Goal

- ▶ The guest is supposed to find a target color from a color cube by splitting the color cube in half and keeping only the half that contains the target color.



Gesture - Flip

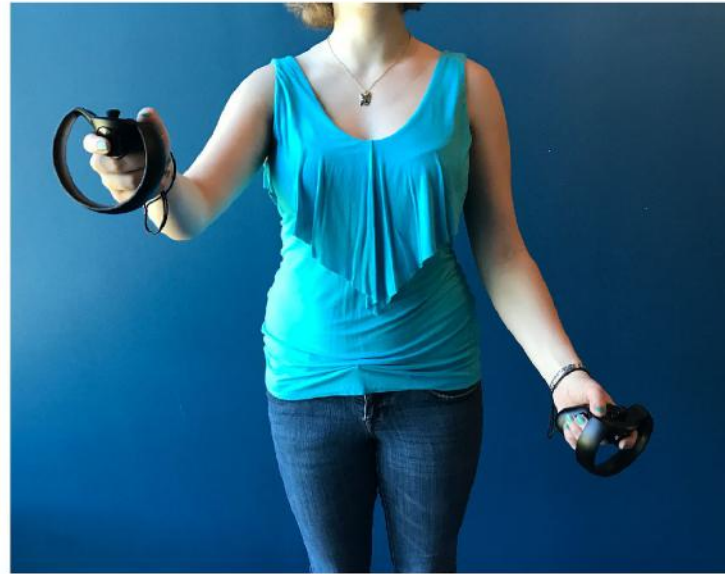
- ▶ In this game you can flip your hands to check color. If you flip your left hand, you can check your target color, and if you flip your right hand you can check your average color right now.



Flip hands

Gesture - Open up arms

- ▶ In this game you can press both index fingers (there is a button under each) at the same time and then open up your arms to bring up a blue circle indication where the cube will be split. Release your pointer fingers to split the cube. By opening your arms in different directions you can split the cube in different dimensions.



Open up arms

Gesture - Others

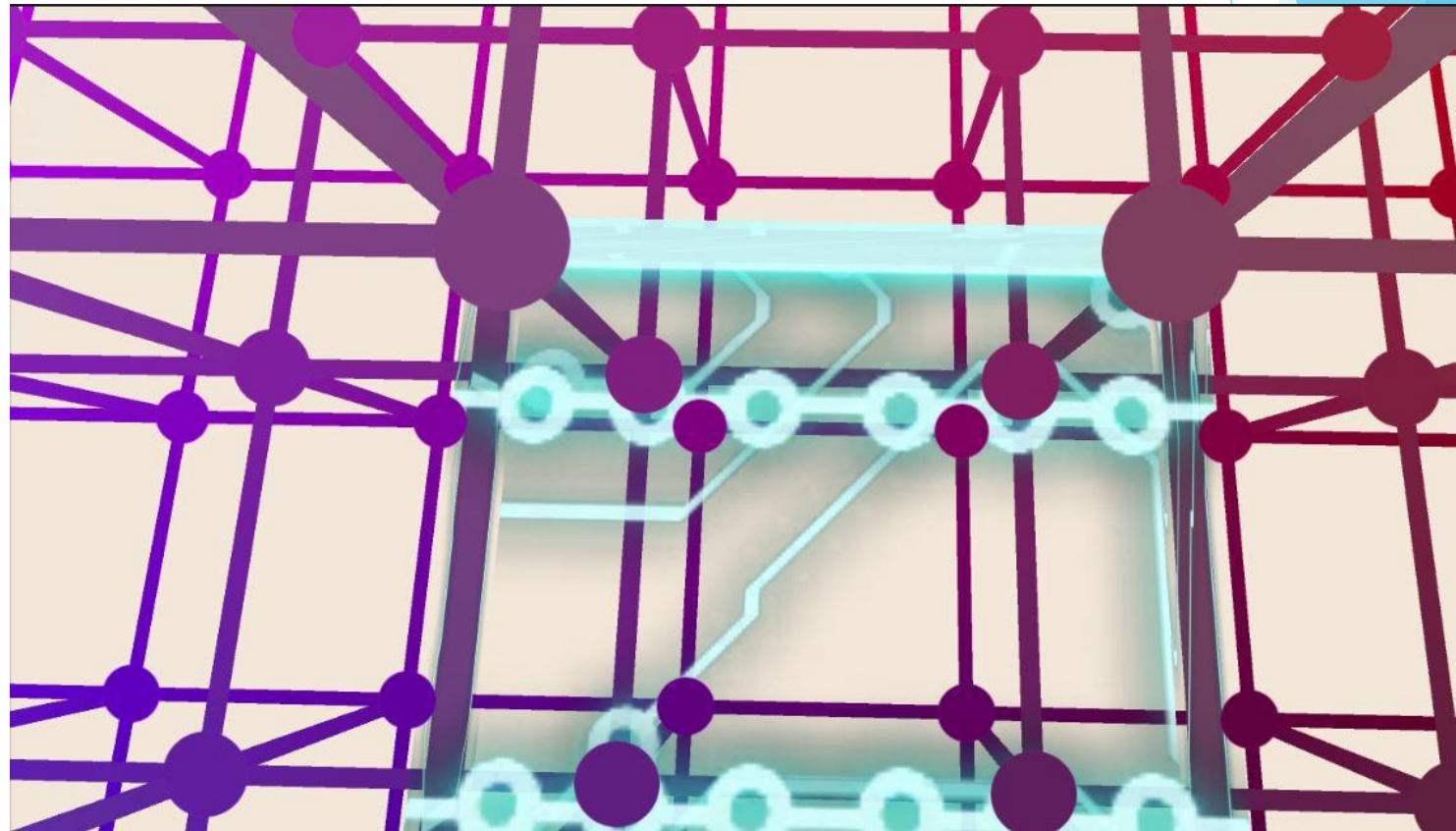
- ▶ Select: After you split the cube, you can select the half you want by **pressing the “A” button** on the controller in your right hand.
- ▶ Cancel: You can cancel one step by **pressing the “X” button** on the controller in your left hand. This cannot be done while the cube is still in two pieces, you must select on side and then press X.
- ▶ Restart: You can **press your left joystick** to restart a level.
- ▶ Start: You can select a new target color and restart by **pressing your right joystick**.

Walkthrough - Step 1.1

- ▶ Set up your Oculus headset and Oculus touch.

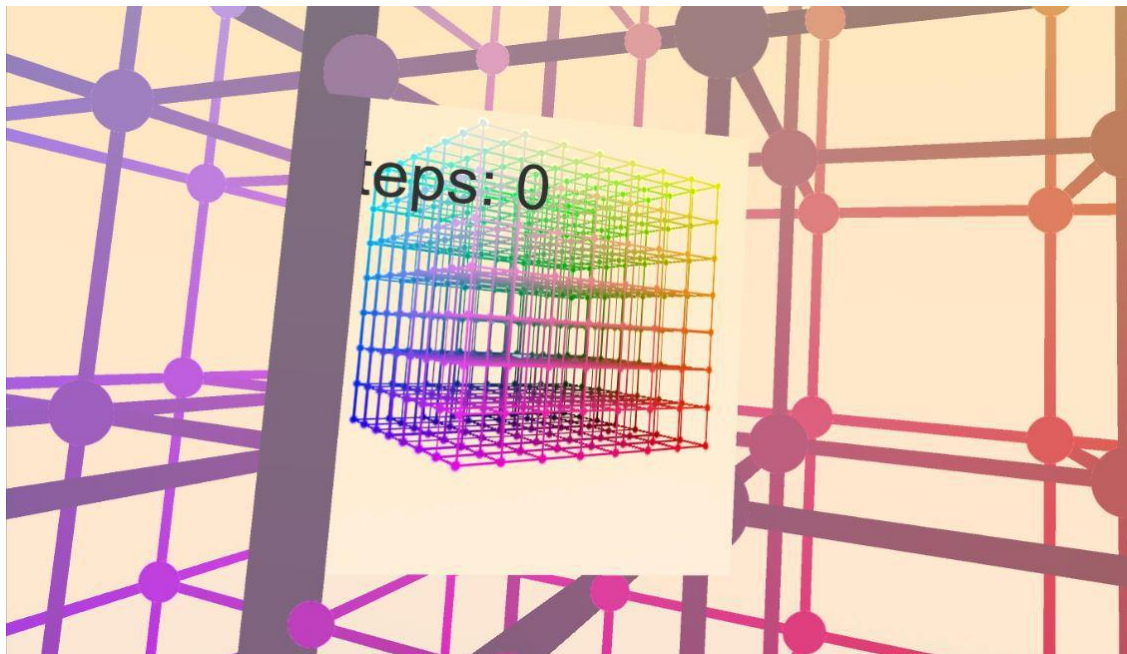
Note: Hold both touches while playing! Oculus does not work unless both controllers are in view of the sensors.

- ▶ Start the prototype.
- ▶ Look down and stand on the blue little platform (shown here) to start.



Walkthrough - Step1.2

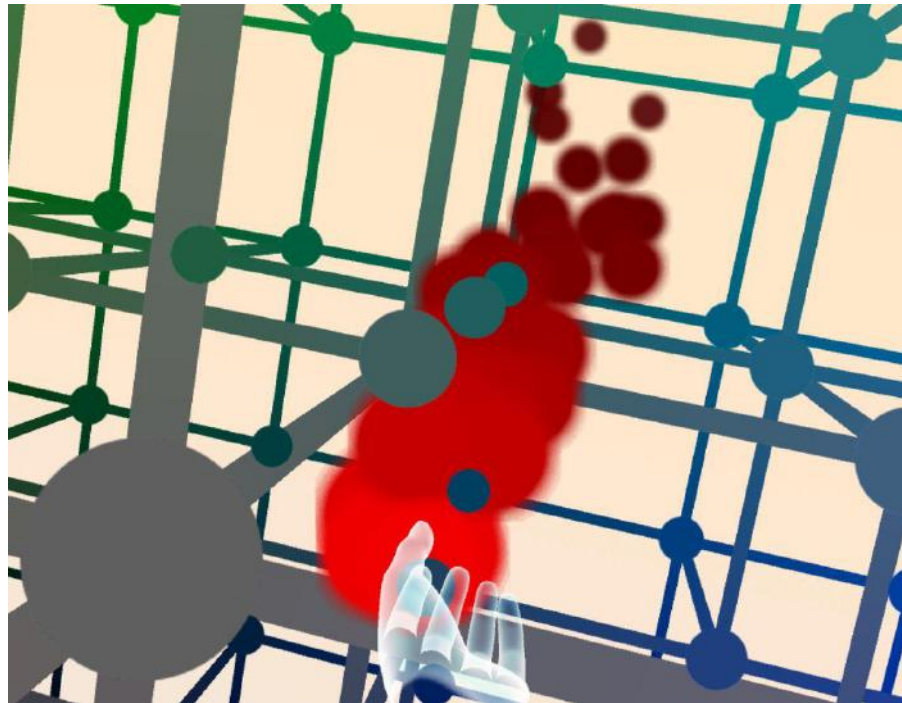
- ▶ Now look around, you should be in a huge color cube.
- ▶ Also, you should see a screen slightly to the right showing the whole cube from the outside (shown below) and how many steps you have taken.
- ▶ To challenge yourself, try to use as few steps as possible!



Walkthrough - Step2.1

Now let's try to flip your hands to check colors.

- ▶ 1. Turn your left hand 180 degree down and flip it back up quickly as shown in the gesture section. This should create smoke on your hand. The color of the smoke is your target color. The fire will follow your hand and last for 5 seconds.



Walkthrough - Step2.2

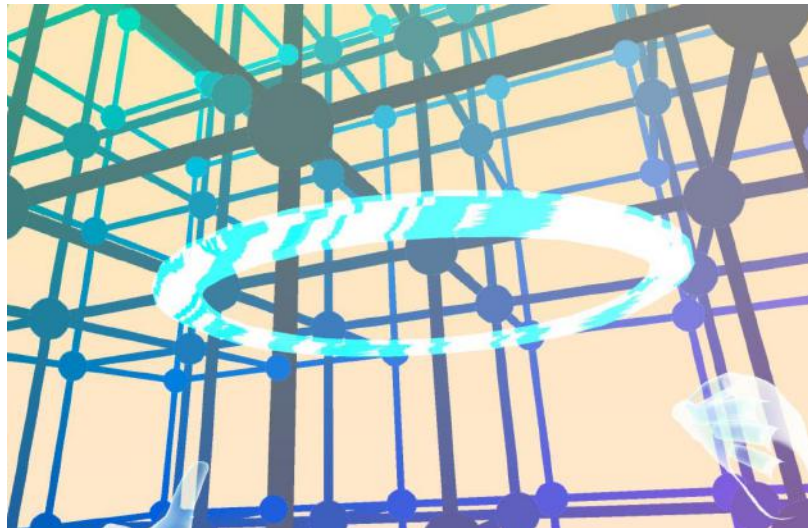
- ▶ 2. Try the same gesture on your right hand. This should create a similar smoke and the color of this smoke shows the average color of the entire cube right now. Your target is to make this average color (your right hand) close to your target color (your left hand).



Walkthrough - Step3.1

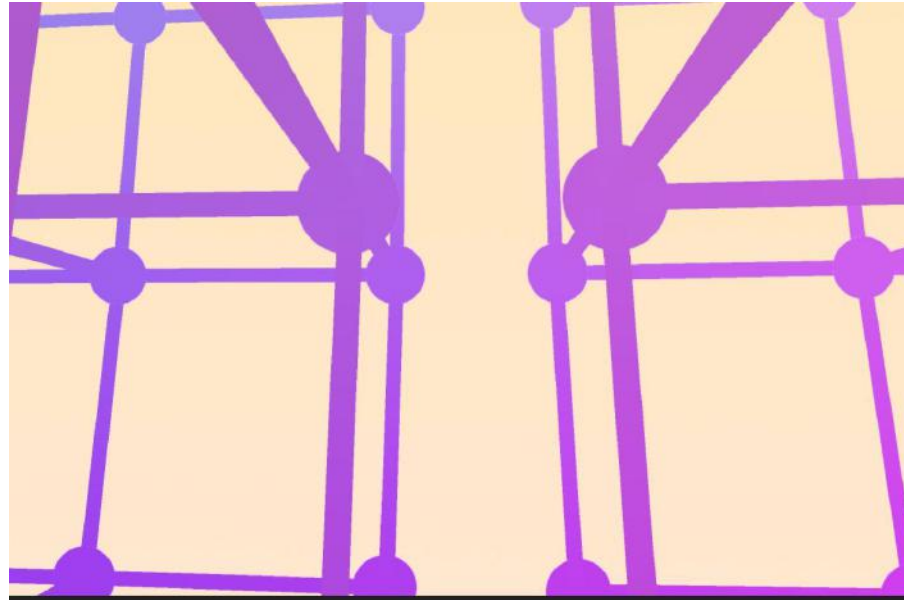
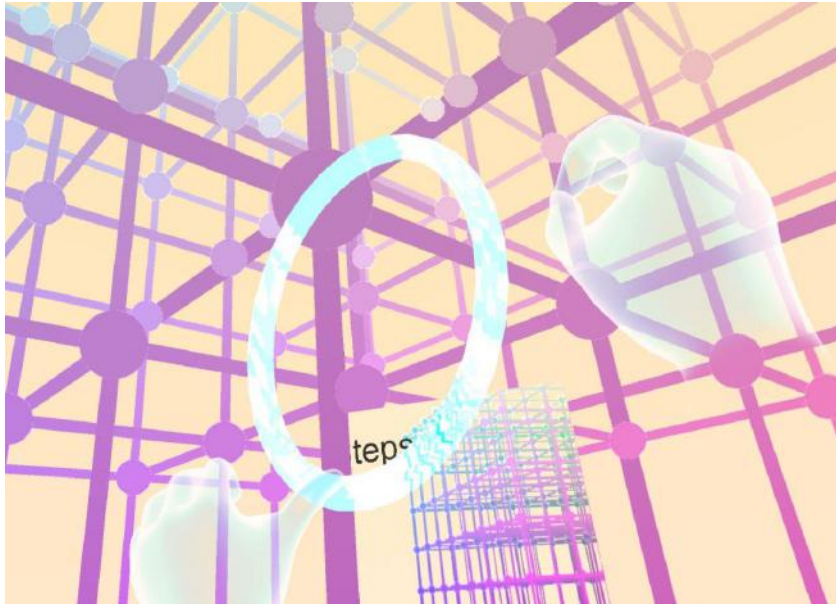
Now let's try to split the cube.

- ▶ 1. Press and hold with your two index fingers. Then you should be able to see a ring appear between your hands. Without releasing your fingers, you can open up your arms in different directions to adjust the dimension you want to split. The direction the ring is expanding when you move your arms indicates the direction it will split the cube.



Walkthrough - Step3.2

- ▶ 2. When you decide on your direction, release both of your fingers. You should see the ring extend and split the cube.



Walkthrough - Step4

Now let's select the half you want.

- ▶ Look at the two halves you have right now. Maybe flip your hand and recheck your target color. Then decide which half is the one closer to your target color (on your left hand); this is the half you want. Now put your right hand near the half you want and press A on your right touch controller.

Walkthrough - Step5

Now you've finished one complete 'operation'.

- ▶ Keep repeating what you just did - split and select to get closer and closer to your target color.
- ▶ If you want to cancel one move, press X on your left touch controller.
- ▶ If you want to challenge yourself, try to get the target color with fewer steps.

Common Problems

- ▶ Q: Why button pressing has no reaction?
- ▶ A: Make sure the sensor can track both touches.

- ▶ Q: What does the size of the ring mean?
- ▶ A: Nothing, the ring just shows the direction it is going to cut.

- ▶ Q: How to control the direction to split?
- ▶ A: Hold your hands level to split horizontally or move one above the other to split vertically. Change the direction you are facing or move one hand farther from your body than the other to change the vertical direction of the split.