

## Love Bug Color Coding

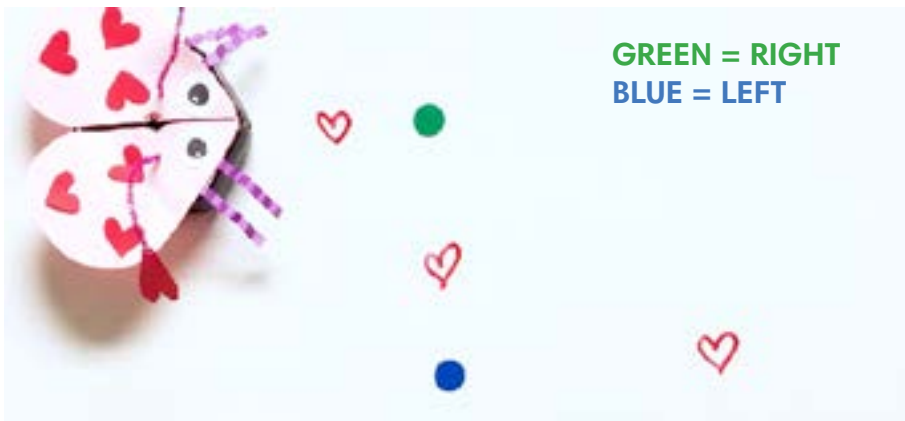
Challenge students to solve a maze with unplugged, visual coding.

### Teacher Prep

- Download the project “Love Bug Code” ([NCTYR](#)) and connect to Root. Press Play and set Root aside.
- With the project running in the background, students will be able to make Root start moving by touching its top and pause its movements by tapping its bumpers.
- On your whiteboard, draw a few hearts with your RED MARKER. The hearts should be smaller than 6 cm.

### With the Class

- Demonstrate to students that when they touch Root’s top, Root will drive forward until it sees one of the three marker colors.
  - When Root sees BLUE, it will turn LEFT.
  - When Root sees GREEN, it will turn RIGHT.
  - When Root sees RED, it will ERASE.
- Distribute a Root and BLUE and GREEN markers to students. Challenge them to give Root instructions to make it through the whiteboard course to erase (or “eat”) all the hearts.



Code Level(s):

0-1

Subject(s):  
Computer Science

Time:  
15 mins.

Grade Level(s):  
k-2

# Students:  
Groups of  
1-3

### Supplies:

- Root Robot
- Device with iRobot Coding App
- Blue, Green and Red Dry-Erase Markers
- Magnetic Dry-Erase Surface, like a Whiteboard

### Educational Standards:

CSTA Computer Literacy

- 1A-AP-10
- 1A-AP-11
- 1A-AP-12
- 1A-AP-14

