

NAME: _____

Character Design

BUILD A SIMULATED VERSION OF A CHARACTER FROM YOUR STORY



Self expression is an important way we navigate and understand the world around us. When animators and illustrators design characters, they consider the unique personality and characteristics each character must have. Your challenge is to design a character from your story with the iRobot Coding App that will capture and model the character's qualities and mannerisms.

STEP 1: GET TO KNOW YOUR CHARACTER

Choose a character in your book that you'd like to recreate. On a separate piece of paper, answer the following questions:

- Character's name?
- Why this character?
- How would you describe this character?
- What are some examples of how they express emotion in the story?

STEP 2: OPEN YOUR CODING PLATFORM & BRAINSTORM

Navigate to **code.irobot.com** or open the **iRobot Coding App**. Create a blank project.

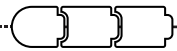
You can start in Learning Level 1 with the simulated robot to design your character. On a separate paper, brainstorm different types of emotions and how they can be communicated with colors, movement, or sound.

Exmaple: What could the color red represent? Or shaking from side to side? Or making high pitched sounds?

STEP 3: DECIDE ON EXPRESSIONS

On a separate paper, write some important details about your character that you'd like to include. Decide on four that you would like to expression with code. Some example prompts include:

- When _____ is feeling _____, they _____. One way to express this is _____.
NAME OF CHARACTER
- One unique characteristic about _____ is _____. This could look like _____.
NAME OF CHARACTER



STEP 4: CODE YOUR CHARACTER

Use **code.irobot.com** or the **iRobot Coding App** to code your character. When finished, upload it to the cloud and write the 5-character project ID on a separate paper **AND** here below to save it.

Completed Project ID:

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STEP 5: CHARACTER SHOWCASE

Once you have finished coding, share your simulated character with others! Reflect on the following questions:

- Which emotion or characteristic was easiest to express?
- Which was the most challenging?
- After sharing with others, were there any expressions that were interpreted differently?

Reference Projects

You can use the code projects here for ideas on how to express your character's emotions and qualities in iRobot Coding.

E X A K 4

COMMUNICATION COLORS

In this project, tap the top touch sensors to glow a color that expresses an emotion.

Top Right: blue (sadness)

Top Left: green (jealousy)

Bottom Right: yellow (joy)

Bottom Left: purple and orange (creative)

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RANDOM EXPRESSIONS

Tap the top touch sensors to express a random emotion with sound, movement, and color. How many times can Root express feeling happy, sad, or scared? Then, use variables to create your own expressions.

Going Further

Host an interview with your simulated character. Invite others to design questions to "ask" your character. Think about how your character would respond and tap one of the top touch sensors to communicate an answer!

