

9:41 AM Tue Oct 18

100%



Photo Booth



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Shortcuts



Clock



Contacts



Translate



Measure



Magnifier



Playgrounds



iTunes Store



GarageBand



Keynote



Numbers



Pages



Tips



IEP-CT



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Tips



IEP-CT



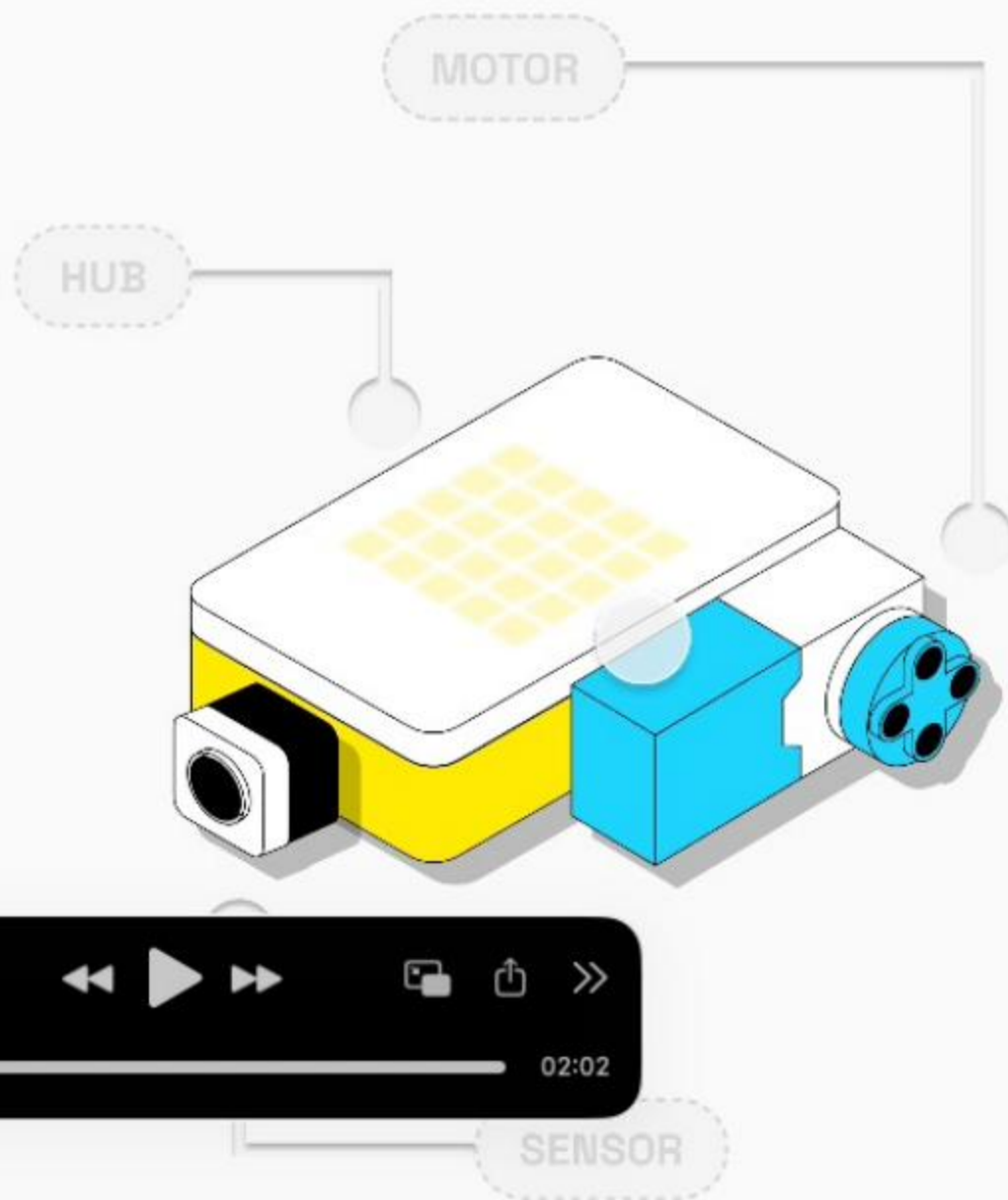




TUTORIAL

MISSION CONTROL 

CODE JOURNEY 





00:06  02:02

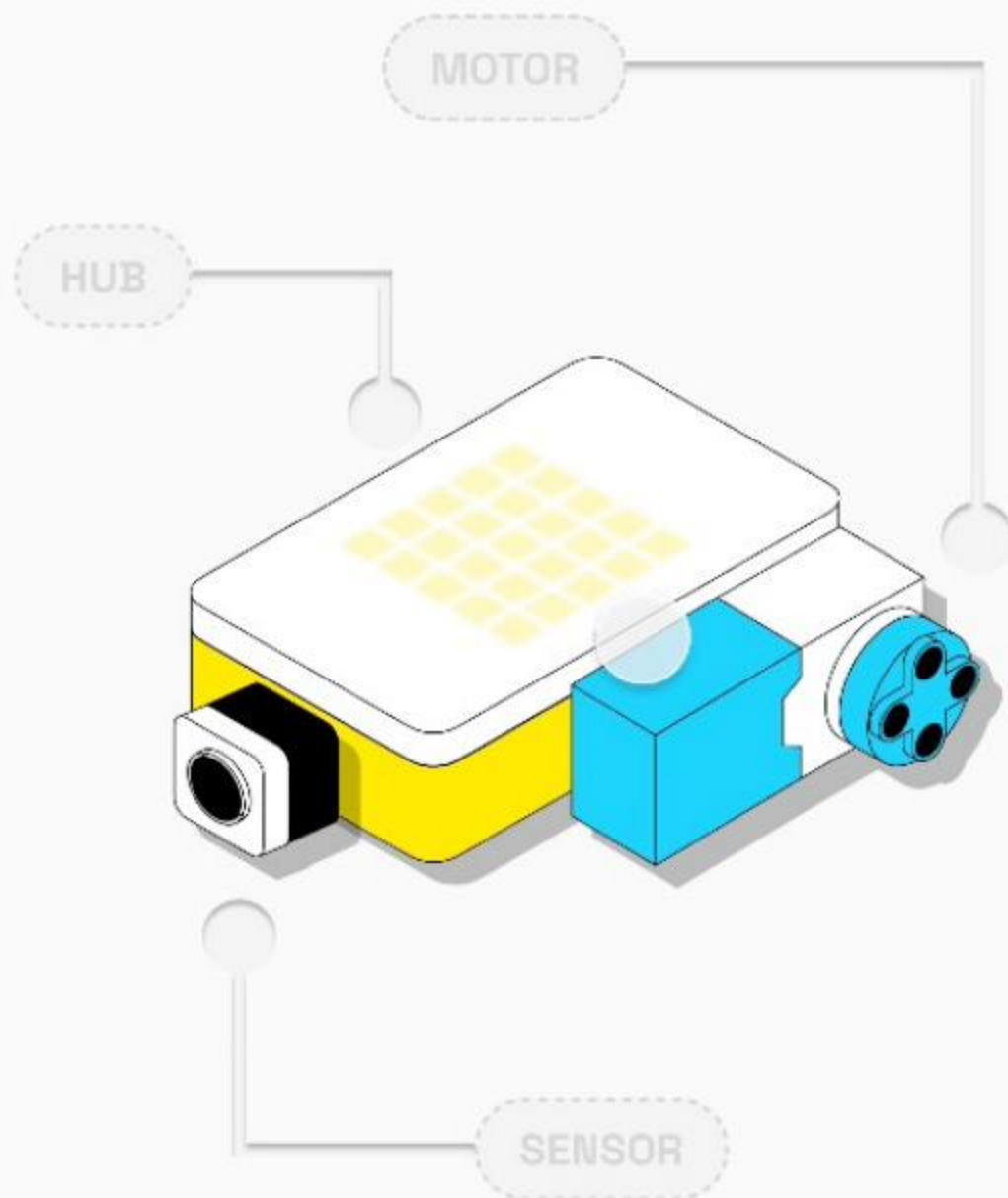




TUTORIAL

MISSION CONTROL 

CODE JOURNEY 



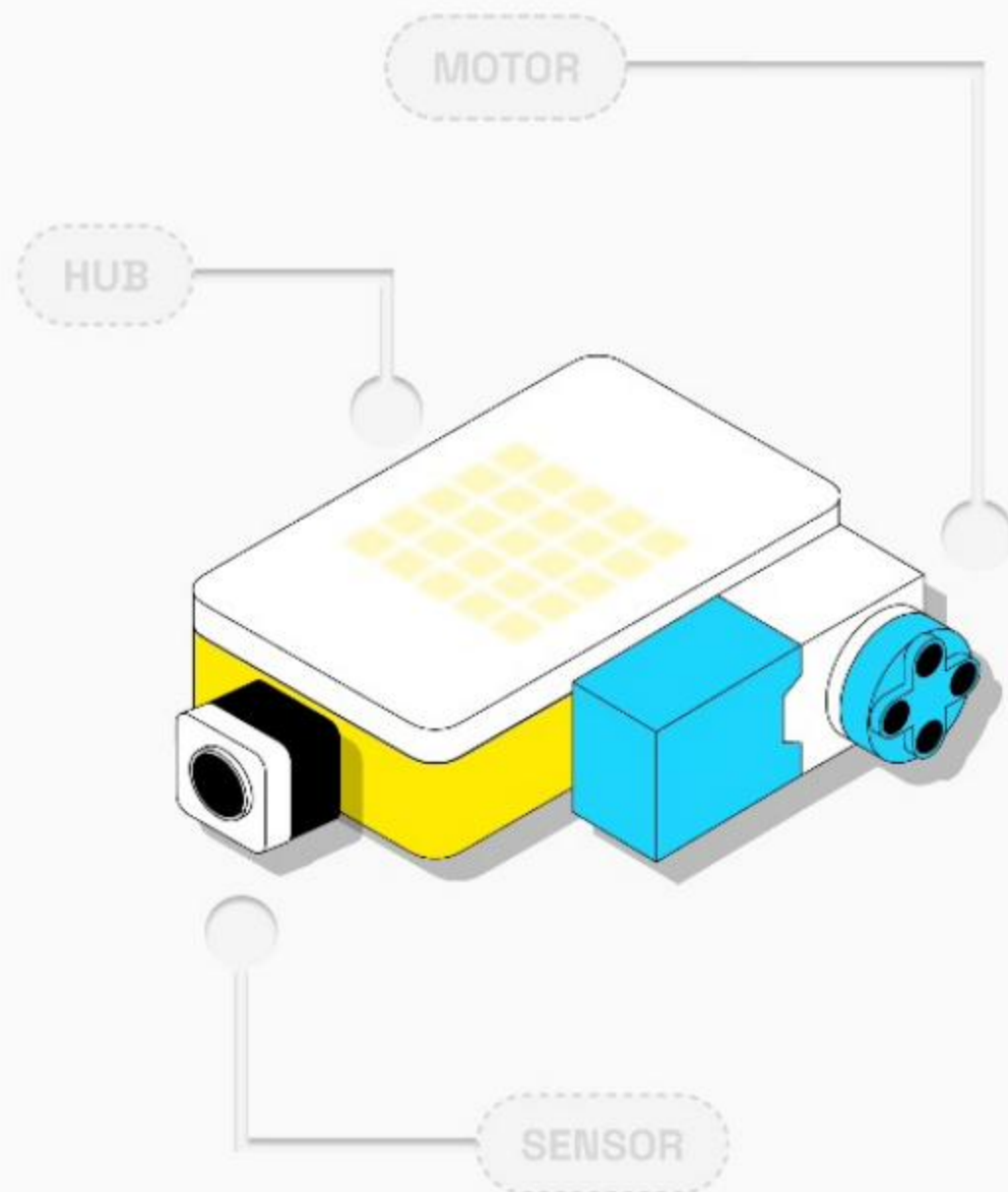




TUTORIAL

MISSION CONTROL 

CODE JOURNEY 



MISSION CONTROL

mission 1

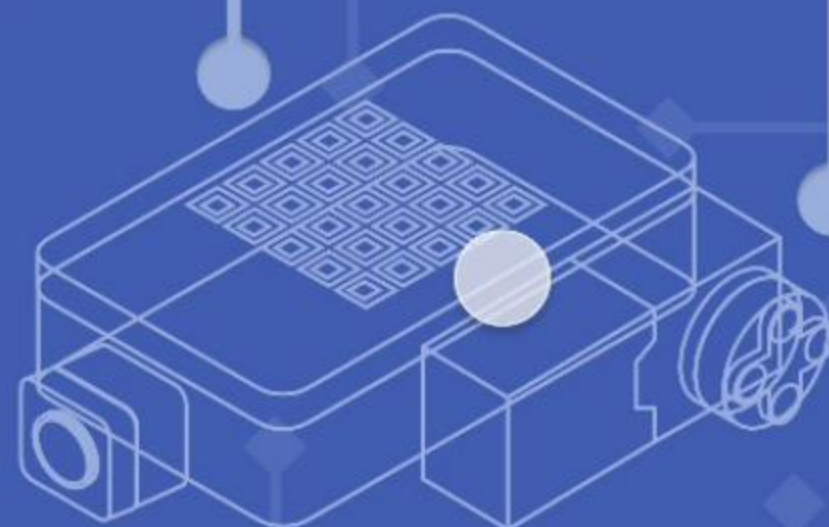
mission 2 

mission 3 

HUB

MOTOR

SENSOR



MISSION CONTROL

mission 1

mission 2 

Welcome to the **tutorial** to guide you
through the IEP-CT app!

MOTOR

HUB

SENSOR



MISSION CONTROL

mission 1

mission 2 

HUB

MOTOR

First, we will go through the module called **mission control**.

SENSOR



MISSION CONTROL

mission 1

mission 2 

mission 3 

These **missions** will guide you through
how each of the robot **components** work.

MOTOR

HUB

SENSOR



MISSION CONTROL

mission 1

mission 2 

mission 3 

HUB

MOTOR

SENSOR

You might notice that some of the missions are **locked**.

You'll need to complete the prior missions before getting to these.

MISSION CONTROL

mission 1

mission 2 

mission 3 

Let's dive in!
Tap **mission 1**.

MOTOR

SENSOR



MISSION CONTROL

mission 1

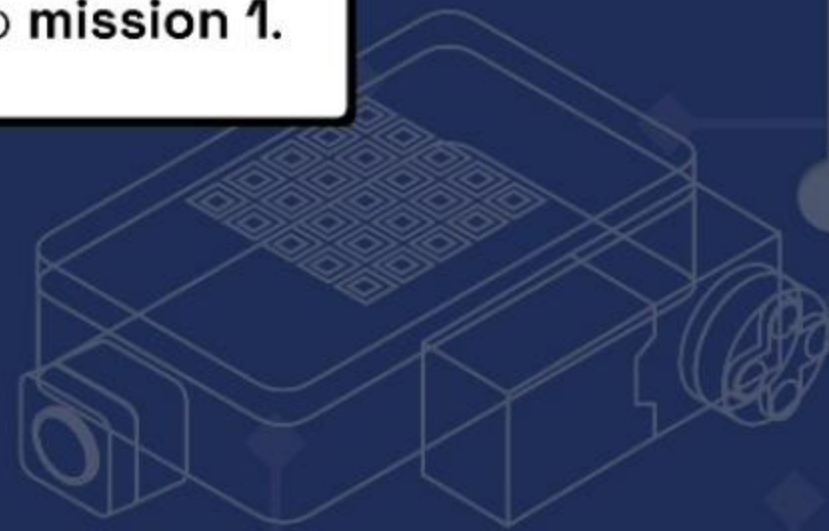
mission 2

mission 3

Let's dive in!
Tap **mission 1**.

MOTOR

SENSOR



MISSION CONTROL

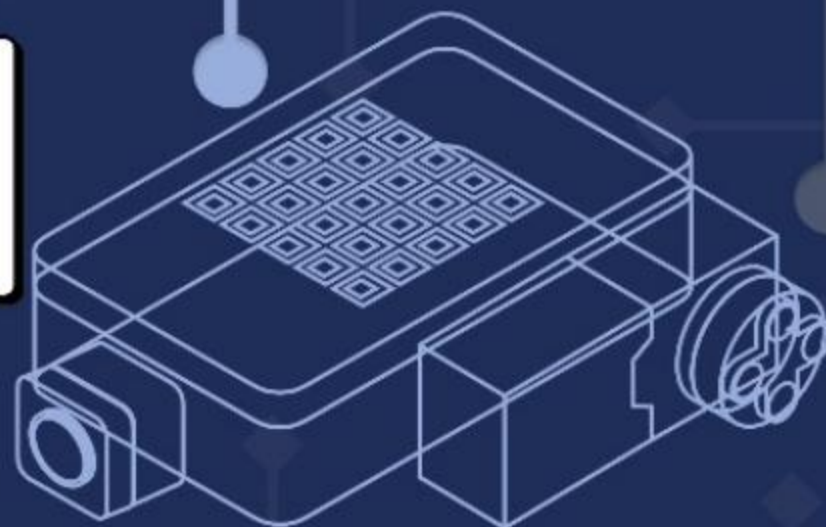
mission 1

Notice that Mission 1 corresponds to a component called the **hub**.

HUB

MOTOR

SENSOR



MISSION CONTROL

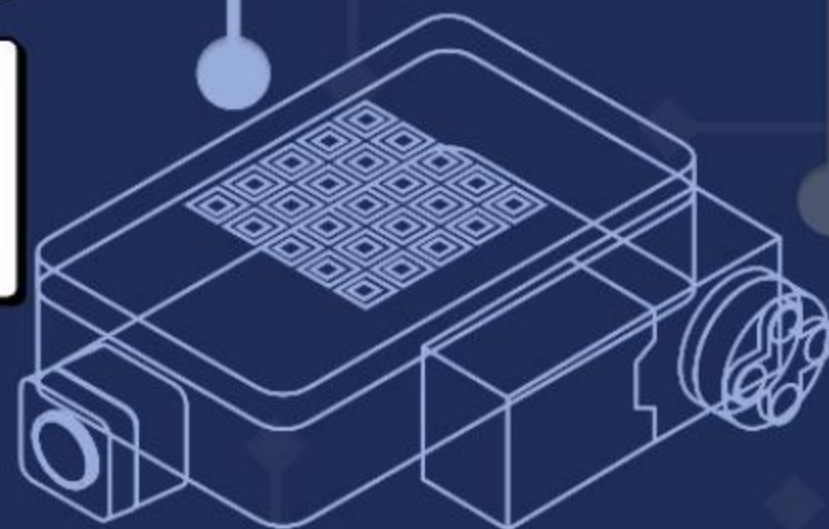
mission 1

Let's look "under the hood"!
Tap **HUB**.

HUB

MOTOR

SENSOR



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

function hub



ACTION

or

SENSE

Welcome to the coding factory! Here,
we will program code which tells the
robot what to do.



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

First, let's look at the **function hub**.

Here, you can look at the functions of the robot and modulate them.

function hub

ACTION

or

SENSE



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

STEP 1

next step

prev step

function hub



ACTION
ACTION

or

SENSE

Tap **Action** to get to the **Light Matrix** component.

Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

ST

Now **tap** Light Matrix.

function hub



ACTION

or

SENSE

Light Matrix

Motor

light matrix

next step



prev. step

Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

Let's try coding!

Tap on the square in the
center of the light matrix.

next step

prev. step

function hub



ACTION

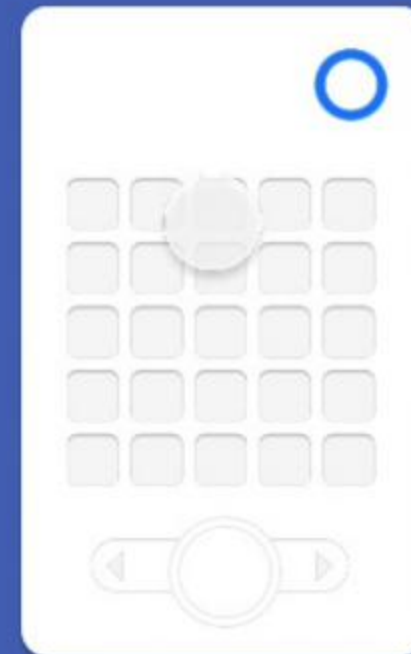
or

SENSE

Light Matrix

Motor

light matrix



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

Lit!

Now, **tap** the same square again.

next step

prev. step

function hub

ACTION

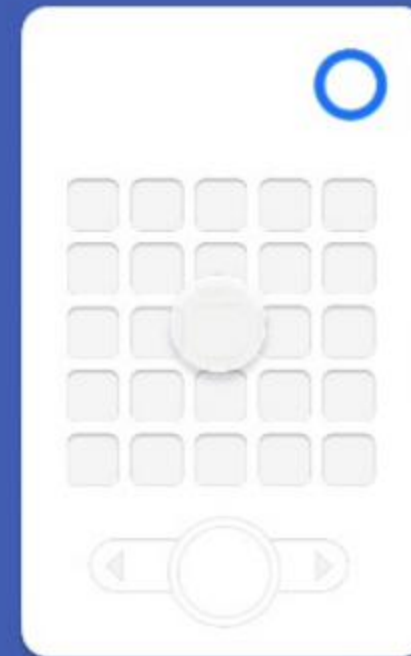
or

SENSE

Light Matrix

Motor

light matrix



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

STEP 4

Bright idea!

You can continue to light up squares
until you find a pattern you prefer.

tap anywhere to continue

next step

prev. step

function hub



ACTION

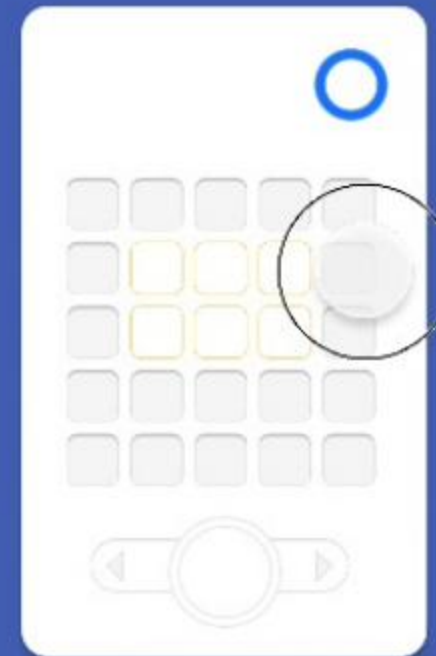
or

SENSE

Light Matrix

Motor

light matrix



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

STEP 4

When you're finished, **tap** the home
button on the bottom of the hub.

tap anywhere to continue

next step

prev. step

function hub



ACTION

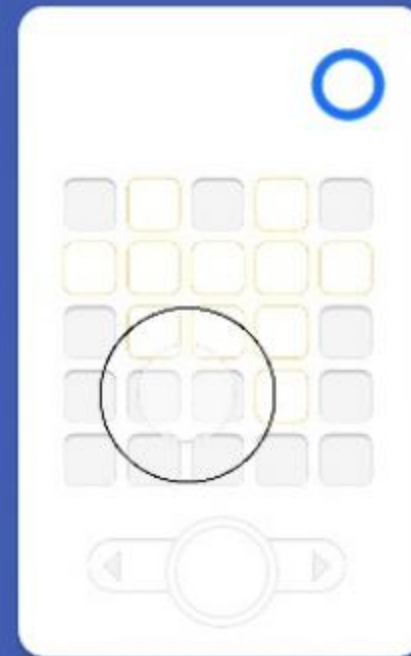
or

SENSE

Light Matrix

Motor

light matrix



Mission 1: Explore the HUB

run

all
steps

this step

drag & drop code here

STEP 4

function hub



ACTION

or

SENSE

Light Matrix

Motor

light matrix

Great! Now that your matrix is lit up,
you can drag & drop the hub into the
slot that says **drag & drop code here**.

tap anywhere to continue

next step

prev. step

Mission 1: Explore the HUB

run

all
steps

this step

STEP 1

next step

prev. step

function hub



ACTION

or

SENSE

Light Matrix

Motor

light matrix



Mission 1: Explore the HUB

run

all
steps

this step

STEP 1



next step



prev. step

function hub



ACTION

or

SENSE

Light Matrix

Motor

light matrix



Mission 1: Explore the HUB

run

all
steps

this step

ST

Congrats! You've completed **mission 1**.

tap anywhere to continue

function hub



ACTION

or

SENSE

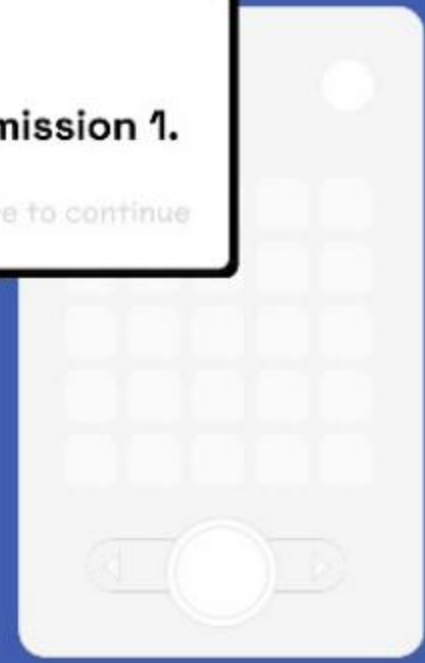
Light Matrix

Motor

light matrix



next step
prev. step



MISSION CONTROL

mission 1

mission 2

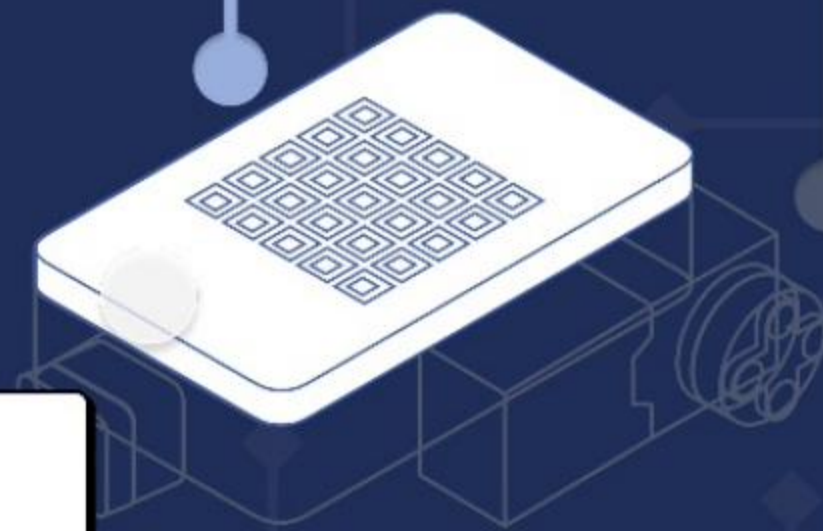
mission 3 

Woohoo!
You've unlocked the **hub**
and **mission 2**.

HUB

MOTOR

SENSOR



MISSION CONTROL

mission 1

mission 2

mission 3 

HUB

MOTOR



SENSOR

Now you can use the hub in your
code journey.

MISSION CONTROL

mission 1

mission 2

mission 3

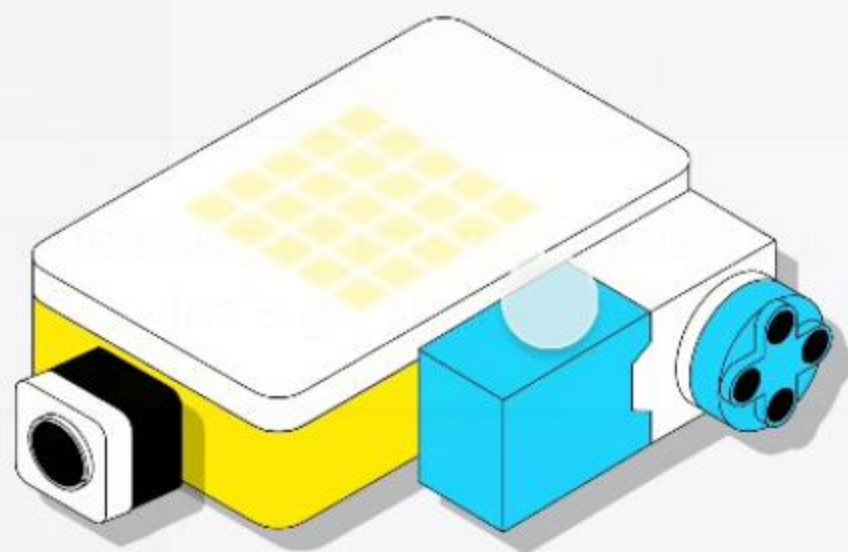
Speaking of the code journey,
let's go there now!

HUB

MOTOR

SENSOR

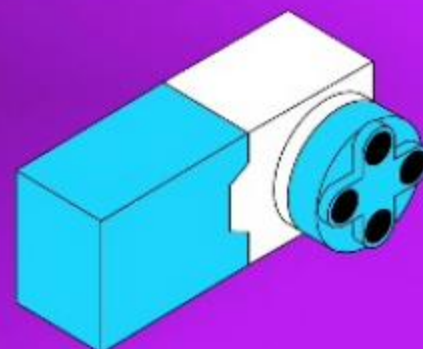




tap anywhere to continue

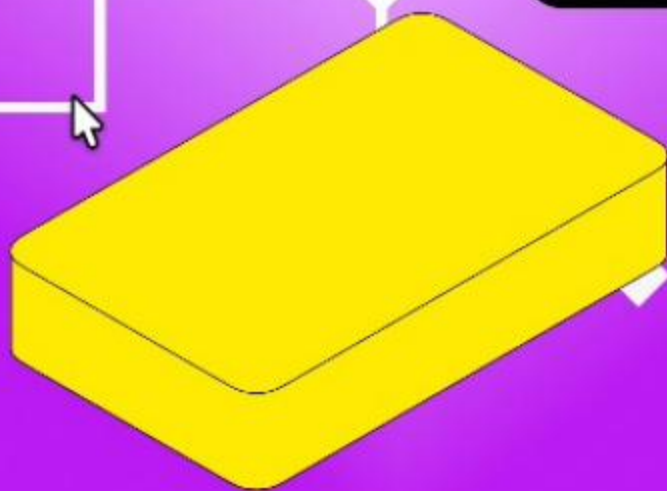
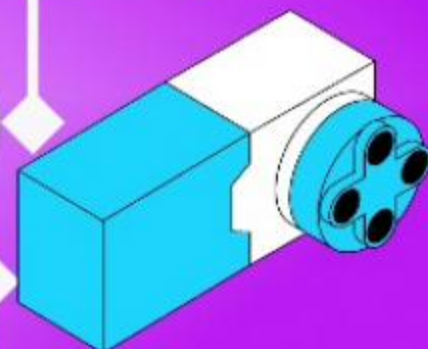


LET'S



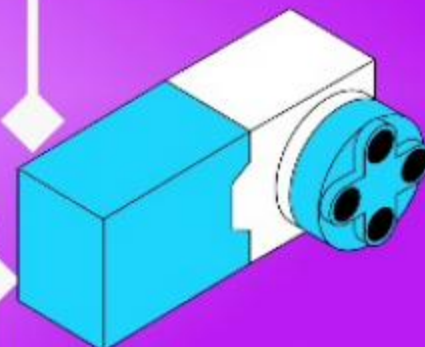
LET'S BUILD!

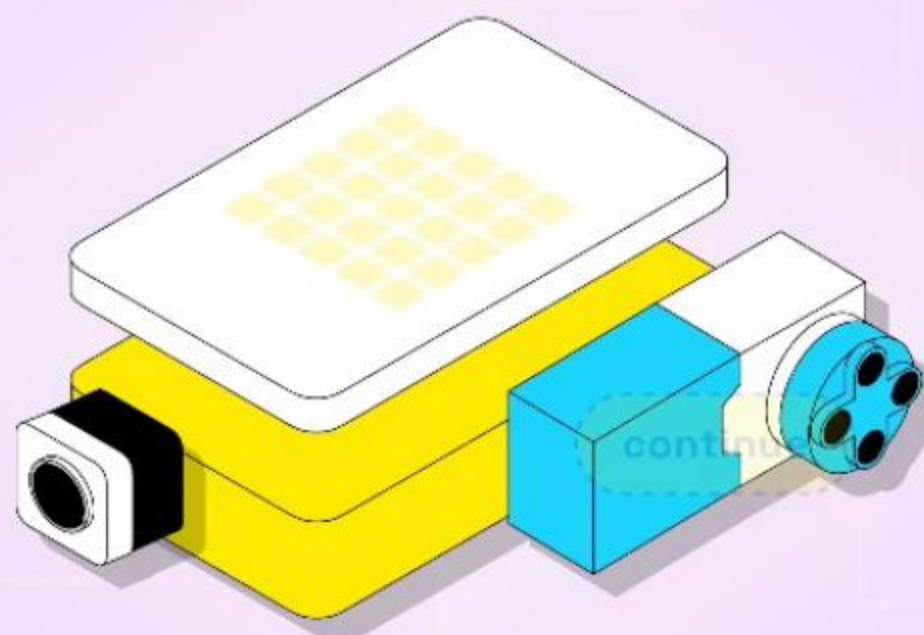
continue

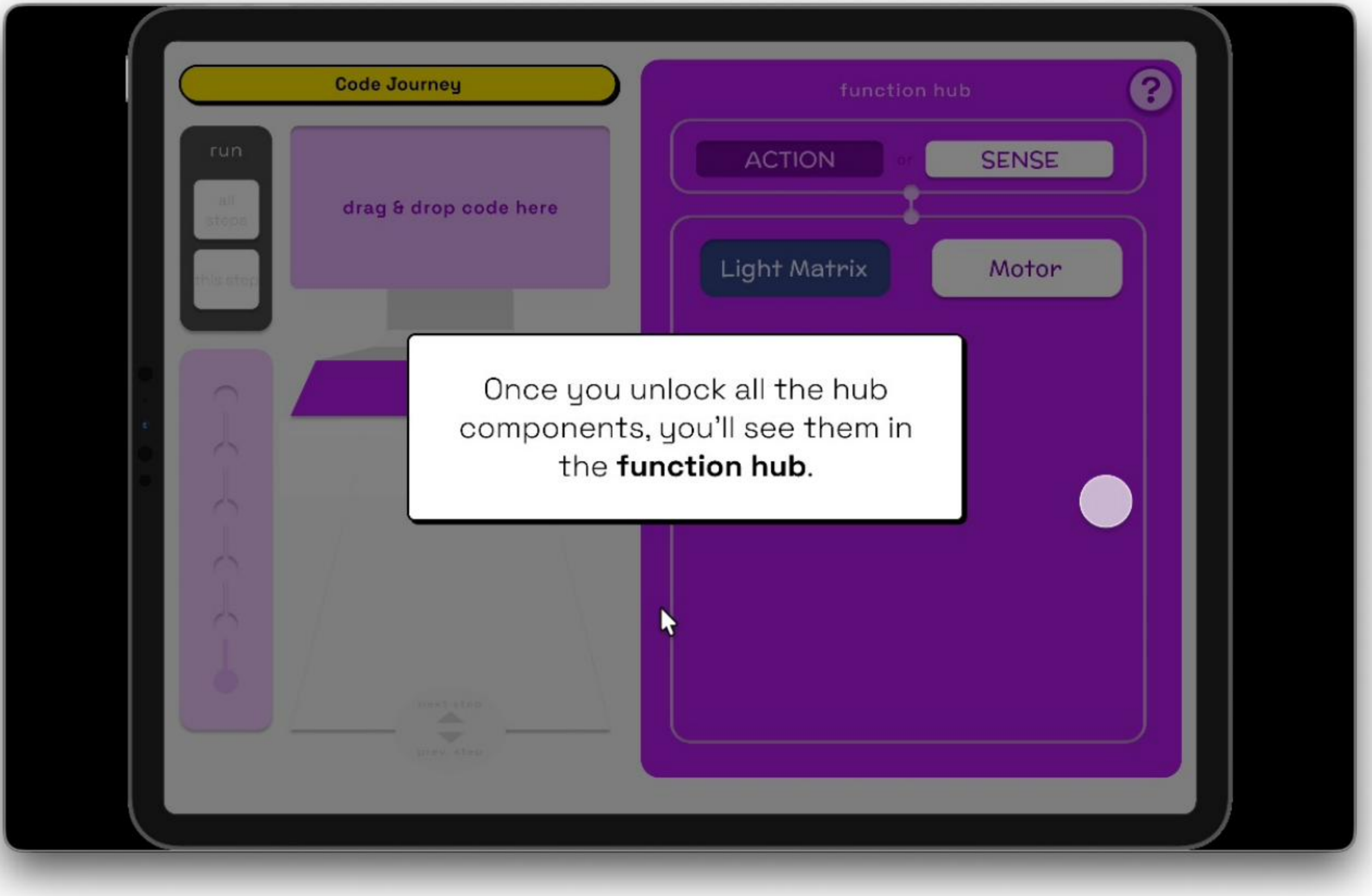


LET'S BUILD!

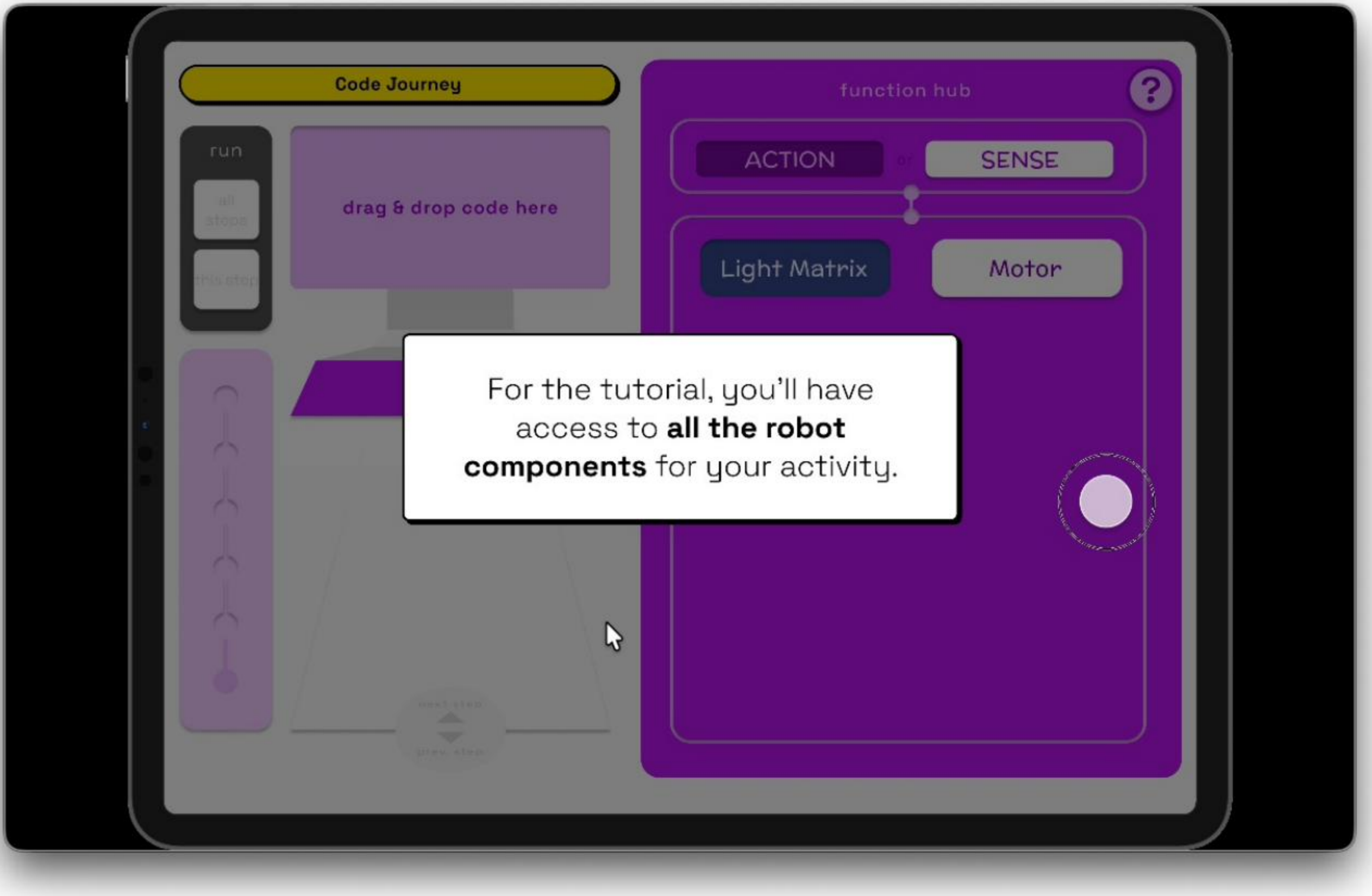
continue







Once you unlock all the hub components, you'll see them in the **function hub**.



The image shows a tablet displaying a code editor interface. At the top left is a yellow 'Code Journey' button. Below it is a 'run' button and two smaller buttons labeled 'all stops' and 'this stop'. A large purple box in the center says 'drag & drop code here'. To the right is a purple 'function hub' with a question mark icon. It contains two rows of buttons: 'ACTION' and 'SENSE' in the first row, and 'Light Matrix' and 'Motor' in the second row. A white text box is overlaid in the center, and a mouse cursor is visible at the bottom right.

For the tutorial, you'll have access to **all the robot components** for your activity.

Code Journey

run

all
steps

this
step



STEP 1



next step

prev. step

function hub

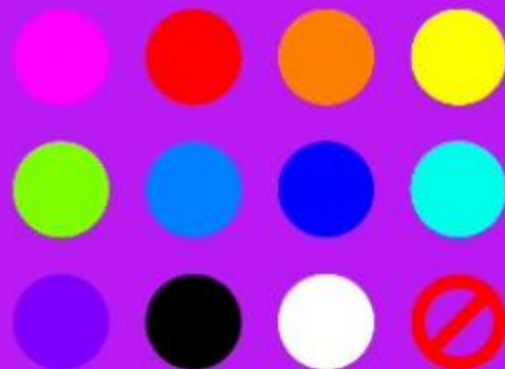


ACTION

or

SENSE

color sensor



Code Journey

run

all
steps

this
step

STEP 1

next step

prev. step

function hub

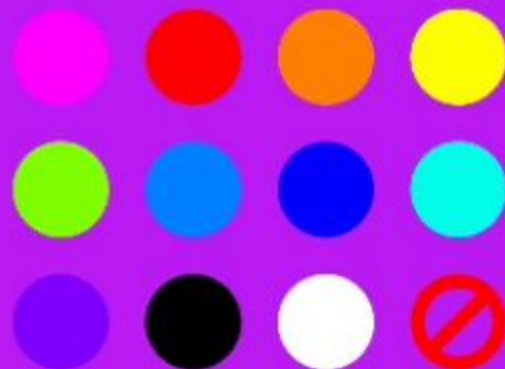


ACTION

or

SENSE

color sensor



Thanks for using the tutorial!

Credits:

Everything **Evelyn**