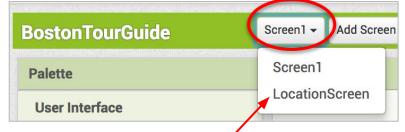
TOUR GUIDE: LOCATION SCREEN

CODING THE LOCATION SCREEN

In this lesson, you will code a second screen in your app to display and speak information about your landmarks.

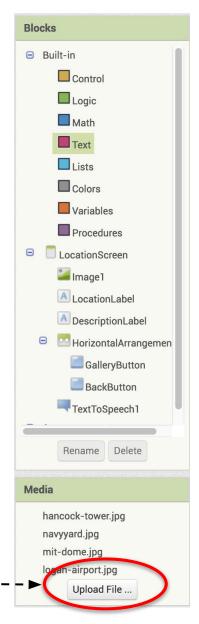
Switch to the LocationScreen.



Start by uploading the images you've selected for your four landmarks.

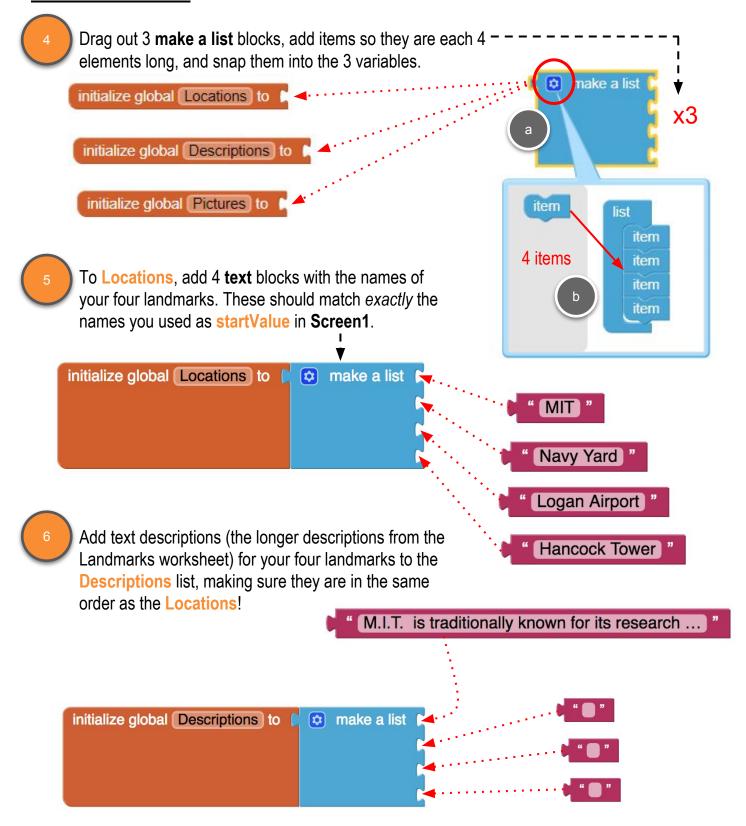
- Click on "Upload File" under Media, and upload your four image files.
- Next step is to make three variables, and name them Locations, Descriptions, and Pictures.







INITIALIZING LISTS





INITIALIZING LISTS (continued)

And to Pictures, add text blocks that contain the exact filenames for the uploaded pictures.



Now make a new variable, locationIndex, to keep track of which Location to display.
Initialize it to 0.

I to 0.

I - - - - ► initialize global locationIndex to to initialize global locationIndex to to initialize global locationIndex to initialize global locat

Set the value of locationIndex in LocationScreen.Initialize event. The event is triggered when the screen first opens. Variables .Initialize when LocationScreen LocationScreen -.Initialize Procedures LocationScreen do Image1 when LocationScreen .OtherScreen A LocationLab Control initialize global name to Logic set global locationIndex v to Math Text Lists initialize local name to Colors

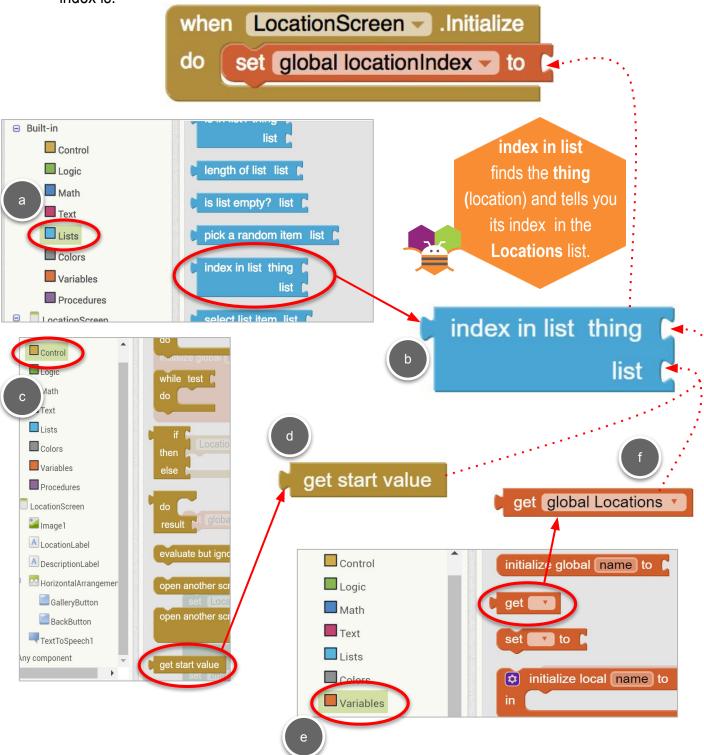


Variables

SETTING LOCATIONINDEX

Set the value o

Set the value of **locationIndex** based on the **start value** passed from **Screen1**. Look for the location passed in start value in the **Locations** list, and set **locationIndex** to whatever that index is.

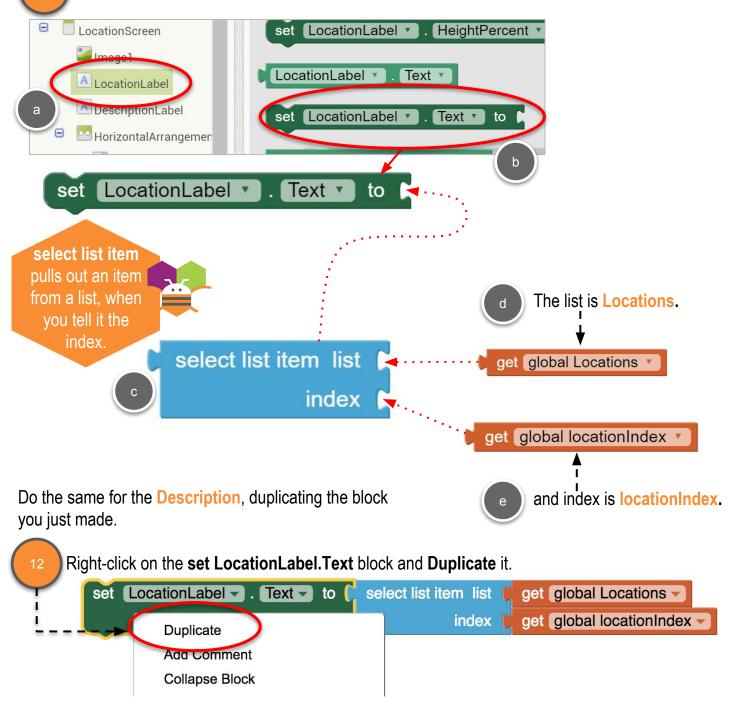




SETTING LOCATIONLABEL

You will use **locationIndex** to point to the correct Location, Description, and Picture items in your three lists! Since the lists all contain information in the same order, they are called **parallel lists**.

Start with the set LocationLabel.Text block, snapping it in below set global locationIndex.



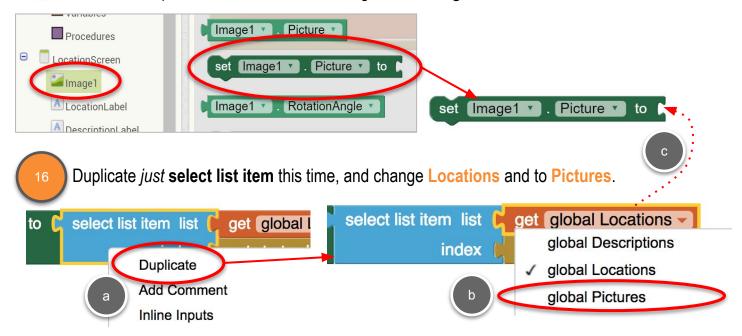


SETTING DESCRIPTION AND PICTURE

Change LocationLabel to DescriptionLabel, and Locations to Descriptions.



- And snap it into LocationScreen.Initialize event, below set LocationLabel.Text.
- Also set the **Image.Picture** to the correct Plcture.
 You can't Duplicate the entire block so drag out **set Image1.Picture**.

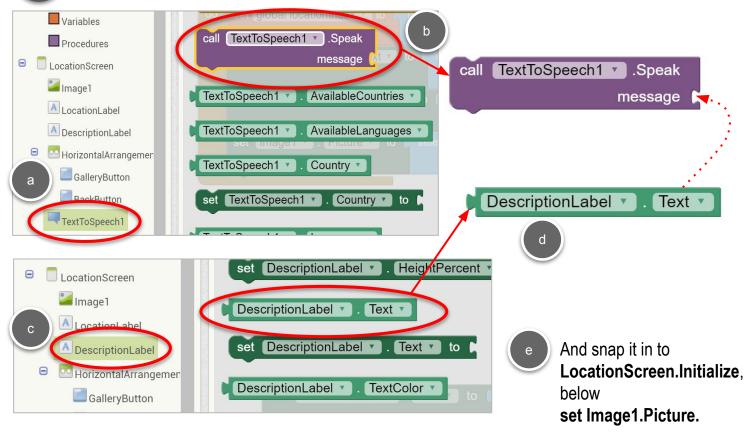


And snap the block into **LocationScreen.Initialize** event, below **set DescriptionLabel.Text**.

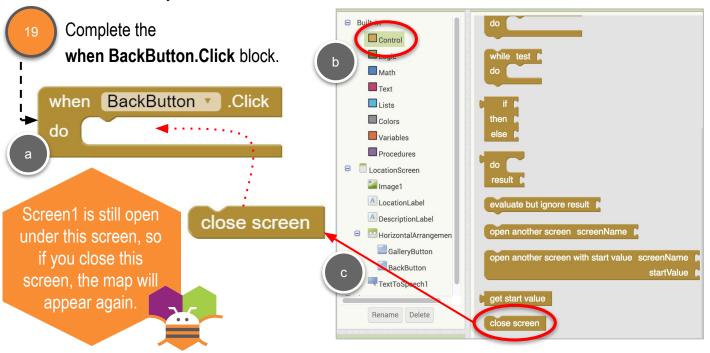


SPEAK THE DESCRIPTION

Use the **TextToSpeech** component to have the app "speak" the description.



One more button and you're finished with this screen!



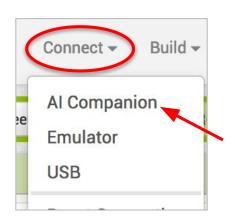


TESTING



Test your app with the MIT AI2 companion.

- Long click on each of your markers. Make sure that the **LocationScreen** opens, displays the correct description and picture, and the correct description is read aloud.
- Try the Back to Maps button to make sure you can go back and forth between the first two screens.





COMPUTATIONAL THINKING CONCEPTS

The following are the Computational Thinking Concepts used in LocationScreen.

