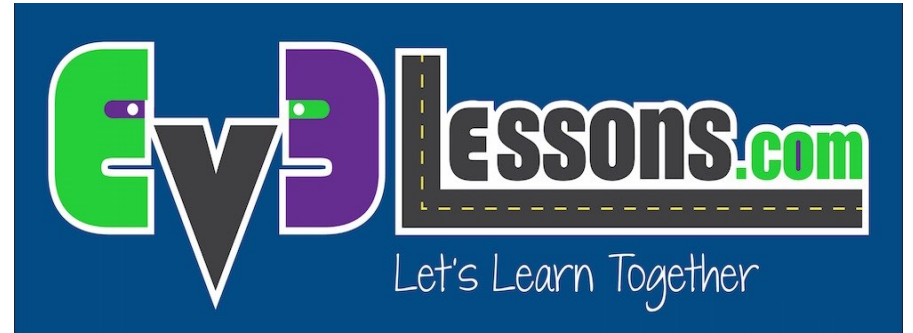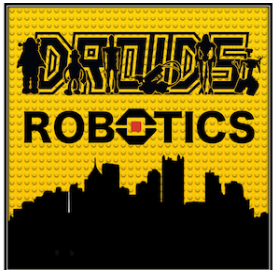# BEGINNER EV3 PROGRAMMING LESSON

Topics Covered:
Custom Images and Sounds

By: Droids Robotics
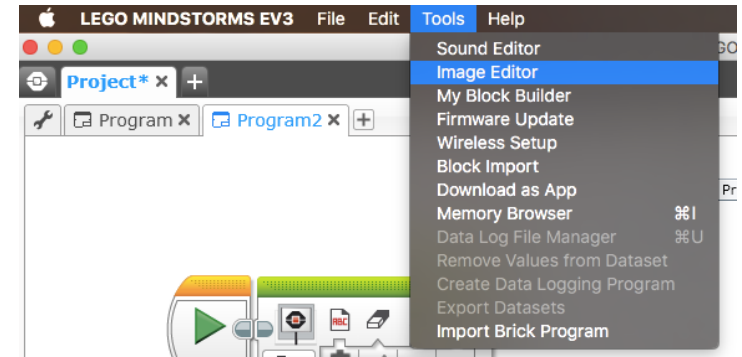
LESSON OBJECTIVES

1. **Learn to use the Display Block and Sound Block to add your custom images and sounds to the EV3**
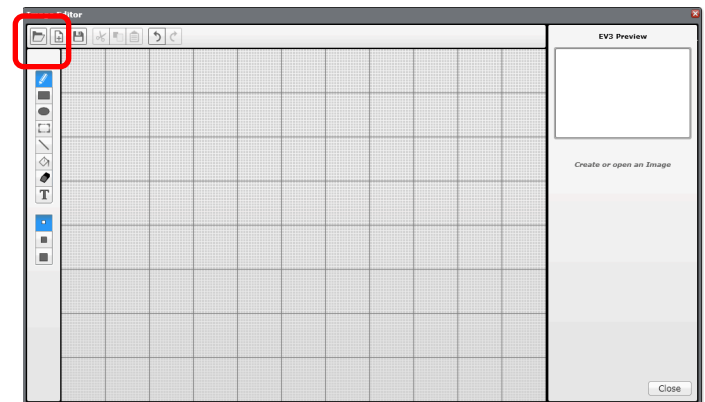
ADDING CUSTOM IMAGES

STEP 1: Select Image Editor from the EV3 Menu Note:

The Image Editor can open .rgf, .jpg, .png, and .bmp files. Color images are automatically converted to monochrome images. The .rgf file extension is what LEGO uses.
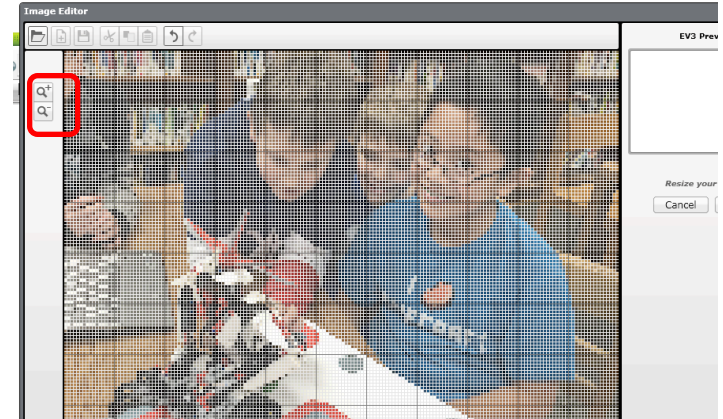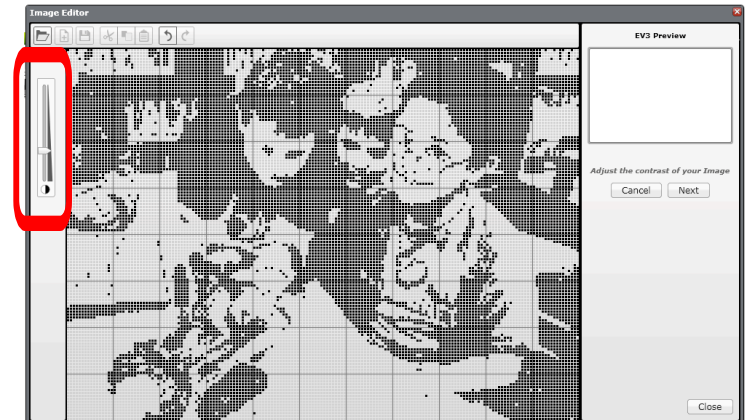
STEP 2: Open your image

ADDING CUSTOM IMAGES

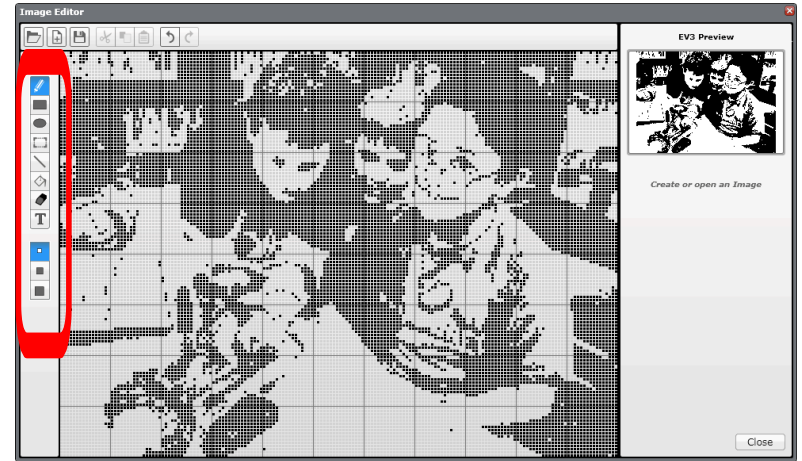**STEP 3: Change its size using the buttons and change the placement by selecting and moving the entire image around**
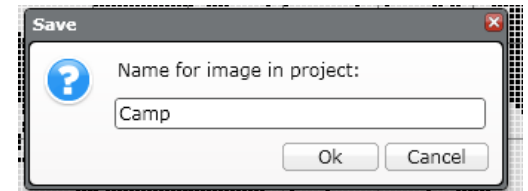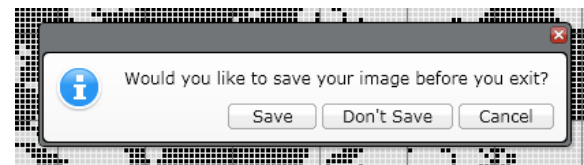
STEP 4: Adjust the contrast

ADDING CUSTOM IMAGES

STEP 5: Edit the image, using the tool palette to the left of the editing screen.
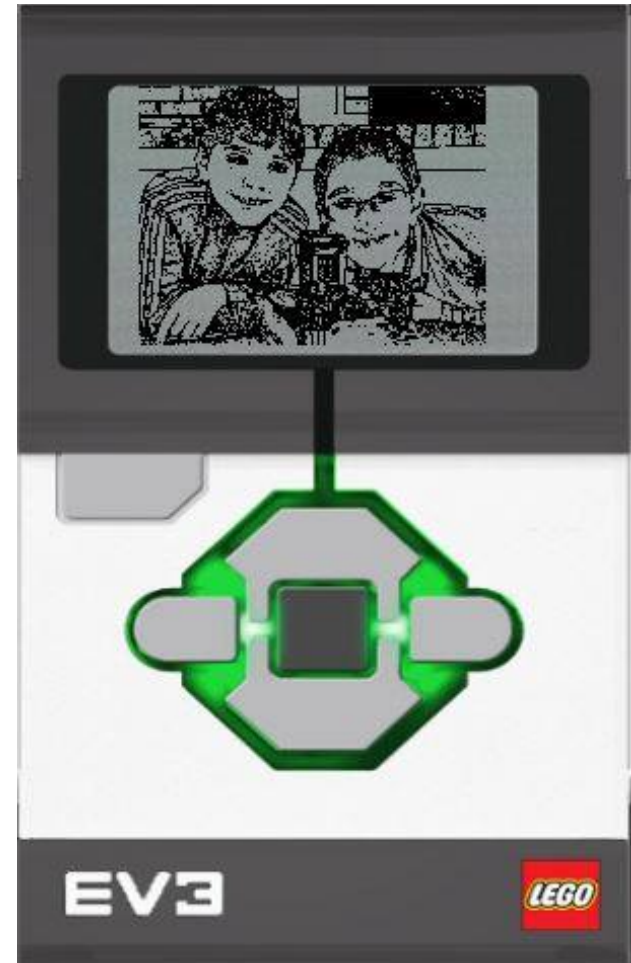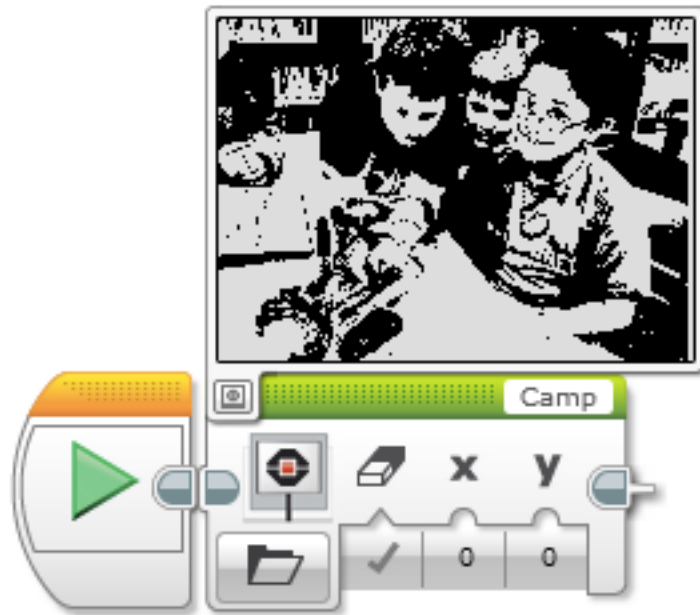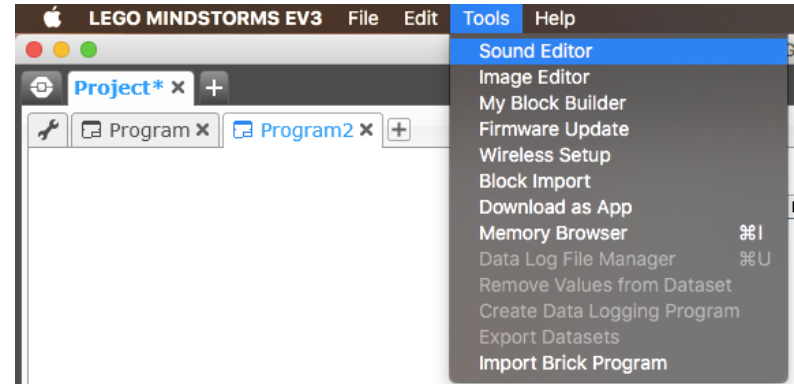

STEP 6: Save the image

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ADDING CUSTOM IMAGES

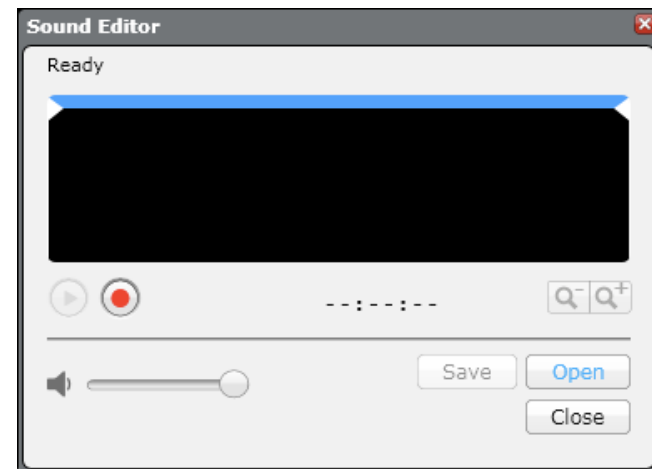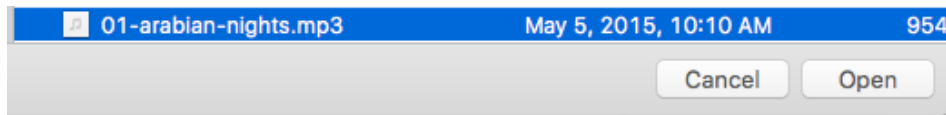**STEP 7: This image is now ready to use in your display block**

ADDING CUSTOM SOUNDS
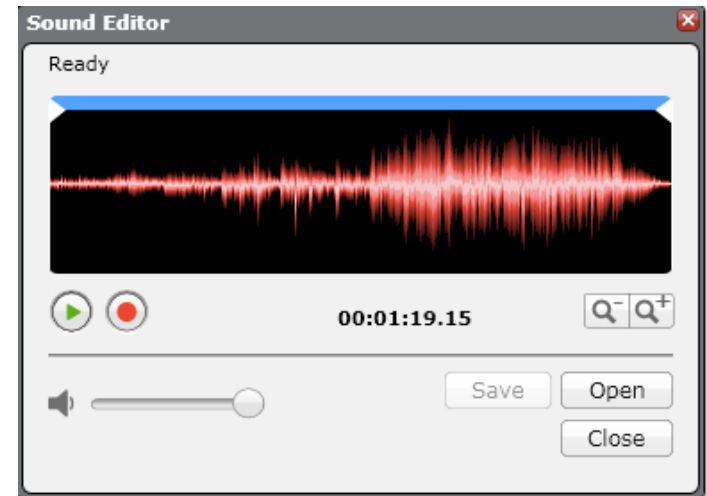
STEP 1: Select Sound Editor from the Tools Menu

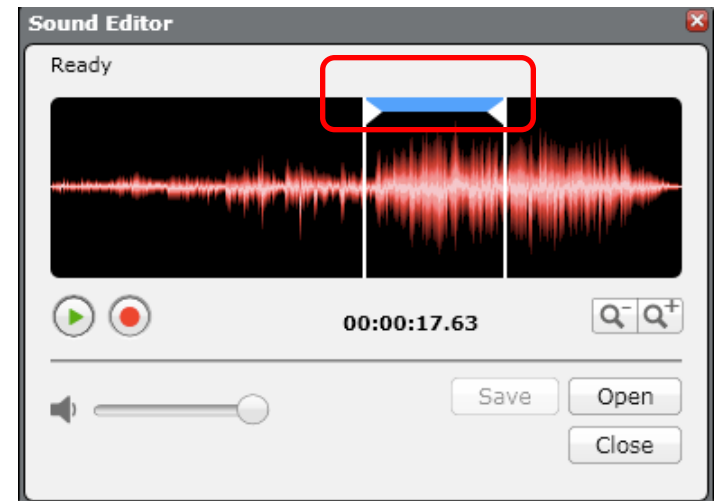**STEP 2: Click on Open and select a sound file (e.g. mp3)**

ADDING CUSTOM SOUNDS

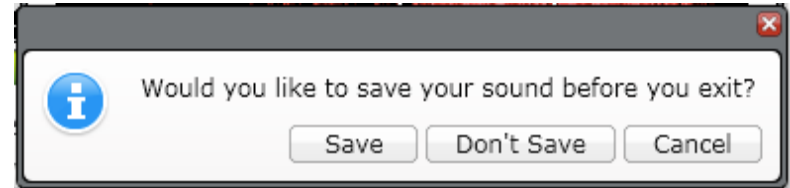**STEP 3: The sound you selected will appear in the editor**

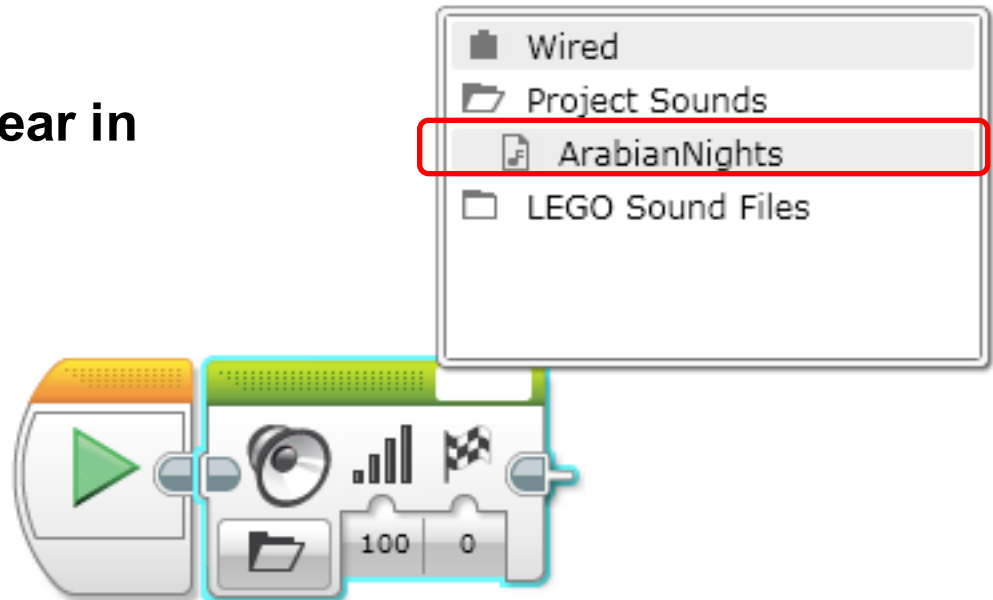**STEP 4: Move the blue bar to change the size of the clip**

ADDING CUSTOM SOUNDS

STEP 5: Save the file

STEP 6: The sound will appear in the sound block

CREDITS

- **This tutorial was created by Sanjay Seshan and Arvind Seshan from Droids Robotics.**

- **More lessons are available at www.ev3lessons.com**

- **Author's Email: team@droidsrobotics.org**