Cubelets Blockly Overview

Cubelets Blockly is a visual drag-and-drop programming application for use with Cubelets robot blocks. Using Cubelets Blockly you can create custom "Personalities" or programs for individual Cubelets in a robot construction. Use Blockly to create more capable and creative robot constructions!

Download Cubelets Blockly on modrobotics.com/cubelets/apps

Main screen for Cubelets Blockly

Program Tabs: Switch between programs or double click to rename.

Create, Save, Load, Pair: Use these buttons to create, save, or load programs. Or return to the pairing screen.

Help/Settings: Trouble programming? Try these options.

Cubelets-specific blocks: Code blocks unique to Cubelets robot blocks.

Non- specific blocks: Default code blocks common to all Blockly programs and programming languages.

Block Map: Select the Cubelet you wish to program.

Restore default: Reset selected Cubelet to default.

Program selected: Send open program to selected Cubelet.

Canvas: Working area for creating a Blockly program.

cubelets
BLOCKLY

Hello_World

Sensing
Acting
Thinking
Messaging
Timing
Logic
Loops
Math/Numbers
Variables
Functions

setup
do

forever
do

Drive Cubelet
ID: 899563

Custom Code: Yes
Hardware: v2.0
Bootloader: v4.3
Application: v4.3
Mode: Application

Restore Default Program

Program Selected Cubelet

Flashlight Hello World

A "Hello World" program is a simple program that is often the first program you will write when learning to code. For our Hello World program we are going to use the following blocks to create a brightly shining Flashlight Cubelet.

This exercise is designed to support Create with Cubelets Episode 8.

Program Goal.

Create a program for a Flashlight Cubelet that sets the brightness of the Flashlight LED to its maximum level.

Blocks you will use.

set actuator value to

Helpful hints.

1. Actuator is a fancy term for the part of a machine that does something.
2. Most program elements should be placed in the black "Forever Do" loop.
3. Cubelets block values can be any whole number between 0 and 255.