CREATIVE CODING USING SCRATCH

ALL BLOCKS (ITEM# SOOL1001EN) V1

Backdrops

Sounds

Scripts



All Blocks of Scratch

Scratch has over 100 coding blocks, and each one has a unique use. They are all <u>colour-coded</u> into 9 different categories as seen below:

You can also create your own block under *More Blocks*. For example, you may create a block called *spin* as this:



Keep in mind that all blocks can be used for *Sprites*, but only some can be used for *Backdrops*.

Here you can find all blocks in Scratch. They are organized into tasks that can be done, and sections that use the same colours as those used in Scratch.





Scratch: All Blocks
* Scratch is developed by the Lifelong Kindergarten Group at the MIT Media Lab. See http://scratch.mit.edu







Scratch: All Blocks
* Scratch is developed by the Lifelong Kindergarten Group at the MIT Media Lab. See http://scratch.mit.edu.

The Scratch color map:



CREATIVE CODING USING SCRATCH





CREATIVE CODING USING SCRATCH





I want to know the details of my sprite ...

x position 🔻 of Sprite1 🔻 🔪 = t

= the value of one attribute of the selected sprite.

The attributes can be: x position, y position, direction, costume #, costume name, size and volume.

Scratch: All Blocks
* Scratch is developed by the Lifelong Kindergarten Group at the MIT Media Lab. See http://scratch.mit.edu

I want to control hardware from blocks in Scratch ...

In Scratch 2.0, you can connect external hardware like PicoBoard, LEGO WeDo 1.0 and 2.0, and make programs to control motors, sensors and lights in the real world. This is done through *Extension*.

What is LEGO[®] WeDo 2.0?

WeDo makes your LEGO[®] model move and fly! It comes with a set of 280 pieces of bricks, 1 smart hub, 1 motor, 1 motion sensor and 1 tilt sensor. You can build great Scratch program to read sensors and control motor.

The LEGO[®] WeDo 2.0 also comes with self-paced learning software (can to be installed on laptop or tablet) which includes:

- 1 Get Started Project, divided in 4 parts, to teach the basic functions of WeDo 2.0
- 8 Guided Projects linked to curriculum standards, with step-by-step instructions

• 8 Open Projects linked to curriculum standards, with initial design brief that inspires open-ended problem solving and exploration.

Check our web site for future resources on LEGO® WeDo 2.0!

