Motion blocks

Getting things moving

- change x by ( )
- change y by ( )
- glide ( ) sec to x: ( ) y: ( )
- go to (▼)
- go to x: ( ) y: ( )
- if on edge, bounce
- move ( ) steps
- point in direction (▼)
- point towards (▼)
- set x to ( )
- set y to ( )
- turn ↻ ( ) degrees
- turn ↻ ( ) degrees
- ☐ x position
- ☐ y position
- ☐ direction

Click on or off screen information

More Motion blocks are available, in both SNAP! and SCRATCH.

Event blocks

The main Event

- when ⚑ clicked
- broadcast (▼)
- broadcast (▼) and wait
- when I receive (▼)
- when (▼) > ( )
- when (▼) key pressed
- when this sprite clicked

In SNAP! this is re-named: [When I am clicked]

Note: SCRATCH 2 and 3 versions have seperate colours for both Event blocks and Control blocks. In SCRATCH 1.4 all Event and Control blocks were called Control blocks. SNAP! follows the same original colour and Control blocks as SCRATCH 1.4.

Look blocks

How it looks

- change size by ( )
- clear graphic effect
- go back ( ) layers
- go to front
- hide   = hides a sprite image
- show   = shows a sprite image
- next costume
- say ( )
- say ( ) for ( ) secs
- say ( ) effect to ( )
- set size to ( ) %
- switch costume to (▼)
- think ( )
- think ( ) for ( ) secs

More Look blocks are available, in both SNAP! and SCRATCH.

Maths blocks

Calculations

- ( ) + ( )
- ( ) - ( )
- ( ) * ( )
- ( ) / ( )
- pick random ( ) to ( )
- ( ) < ( )
- ( ) = ( )
- ( ) > ( )
- ( ) and ( )
- ( ) or ( )
- not ( )
- join ( ) ( )
- letter ( ) of ( )
- length of ( )

Rounded shapes are for input of numbers for maths operations

Lozenge shapes are for adding maths operations

More Maths blocks are available, in both SNAP! and SCRATCH.

Pen blocks

Drawing with a pen

change pen colour by ⬚

change pen size by ⬚

change pen shade by ⬚

clear   = clear all pen drawing

pen down

pen up

set pen colour to ⬚   = colour
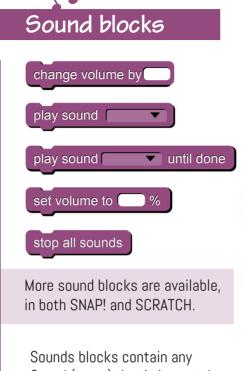
set pen size to ⬚   1 = 100%

stamp   = copy and duplicate

Note: Pen blocks:
SCRATCH 3 Pen blocks have been moved to 'Add extension' page. Find the 'white-on-blue' symbol at the bottom left of your screen browser. Click to reveal Pen options to import into your code project. There are more Pen blocks that you could use for your coding projects. The basics you need are shown above.

Sound blocks

Making a noise

change volume by ⬚

play sound ▼

play sound ▼ until done

set volume to ⬚ %

stop all sounds

More sound blocks are available, in both SNAP! and SCRATCH.

Sounds blocks contain any Sound (name) that is imported from the Sound library. See how to choose a Sound below.

Note:
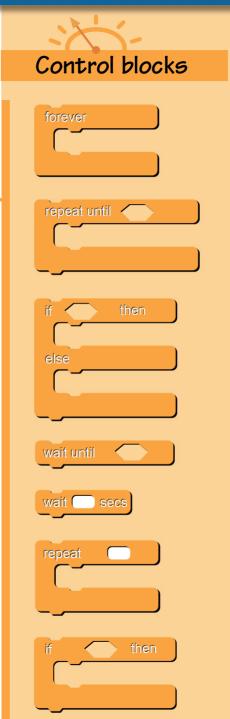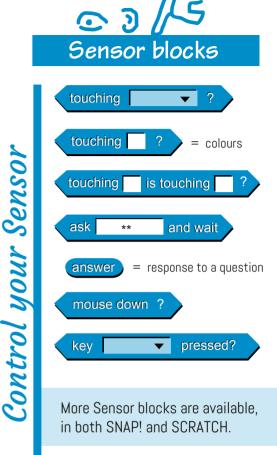To import a sound into SCRATCH 3. Find the white-on-blue icon symbol at the bottom of page in your browser. Hover with your mouse over to reveal more options. Use the last of the options to 'Choose a Sound' to import into your project.

For SNAP! Sounds see Menu (where Open and Save is found) look at bottom, of the Menu list, for all 'Sounds'.

Control blocks

Control and loops

forever

repeat until ⬡

if ⬡ then

else

wait until ⬡

wait ⬚ secs

repeat ⬚

if ⬡ then

Sensor blocks

Control your Sensor

touching ▼ ?

touching ⬚ ?   = colours

touching ⬚ is touching ⬚ ?

ask ⬚ ** and wait

answer   = response to a question

mouse down ?

key ▼ pressed?

More Sensor blocks are available, in both SNAP! and SCRATCH.

Sensor blocks are designed to be the exact lozenge shape that fit into the Control blocks (shown left in orange) in Control blocks. Sensor blocks text - such as: ** [ask 'Question' and wait], will expand to fit the lozenge space in a Control block..

Drag and drop a Sensor onto a Control block. It will then become part of that control block. (See left for Control blocks)