


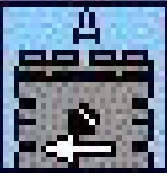

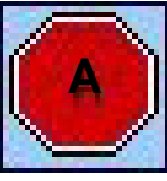
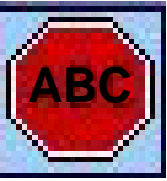


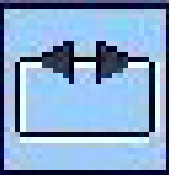

PROGRAM BEGIN AND END

	Begin program (Green light)	Beginning of a program. Required as the first command in every RoboLab program.
	End program (Red light)	End of a program. Required as the last command of each task in a RoboLab program.






MOTORS, LAMPS, AND SOUNDS

	Motor A, Forward	Turn on motor connected to RCX Port A in forward direction at full power.
	Motor A, Reverse	Turn on motor connected to RCX Port A in reverse direction at full power.
	Lamp A	Turn on lamp connected to RCX Port A at full power.
	Stop A	Stop motor or lamp connected to RCX Port A.
	Stop all	Stop motors or lamps connected to all RCX output ports.

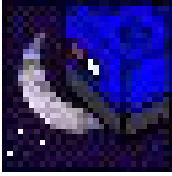

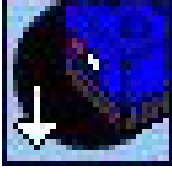

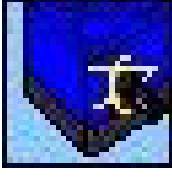
MOTORS, LAMPS, AND SOUNDS

	Flip direction	Flip the direction of the motor on the specified RCX output ports. The default is all ports.
	Play sound	Play a sound. The sounds are: 1 - Key Click 4 - Rising Sweep 2 - Beep Beep 5 - Buzz 3 - Falling sweep 6 - Fast rising sweep(default)

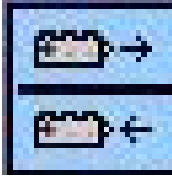
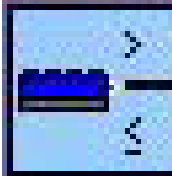
WAIT FOR

	Wait 1 second	Wait 1 second before continuing.
	Wait for time	Wait for a specified amount of time in seconds. The default is 1 second.
	Wait for push	Wait until the touch sensor is pushed in. The default input port is Port 1.
	Wait for release	Wait until the touch sensor is released. The default input port is Port 1.
	Wait for light	Wait until the light sensor reads a value that is greater than the number specified. The default is 55 on Port 1.

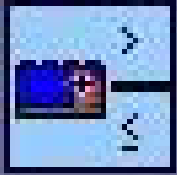

WAIT FOR

	Wait for dark	Wait until the light sensor reads a value that is less than the number specified. The default is 55 on Port 1.
	Brighter	Wait for the light sensor to read a value that is greater than the current value. The default is a difference of 5 on Port 1.
	Darker	Wait for the light sensor to read a value that is less than the current value. The default difference is 5 on Port 1.
	Wait for rotation	Wait until the rotation sensor has counted to the specified number of counts. The default is 16 counts on Port 1.
	Wait for angle	Wait until the rotation sensor has reached a specified angle in degrees. The default is 180 deg. on Port 1.

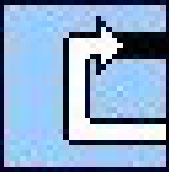
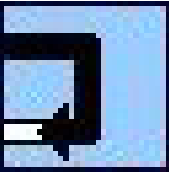

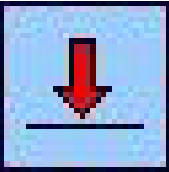
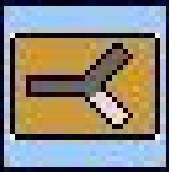
FORKS

	Touch sensor fork	The program chooses between one of two paths depending on the state of the touch sensor. The default input is Port 1.
	Light sensor fork	The program chooses between one of two paths depending on the value of the light sensor. The default value is 55 on Port 1.

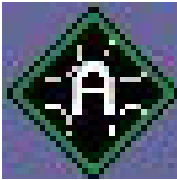
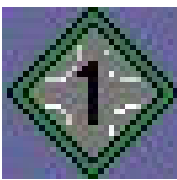



FORKS

	Rotational sensor fork	The program chooses between one of two paths depending on the value of the rotational sensor. The default value is 16 on Port 1.
	Fork merge	Merge two branches of a fork back together. It must be used with all forks.


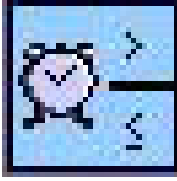
STRUCTURES

	Start loop	Start of a loop structure. The default number of loops is 2.
	End loop	End of loop structure.
	Jump	Make the program jump to the matching land icon in the program.
	Land	This is where the program will jump to when you use the matching Jump icon.
	Task split	Create two tasks that run simultaneously. Both tasks need their own End Program icon.


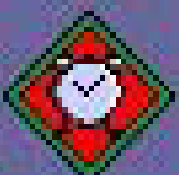
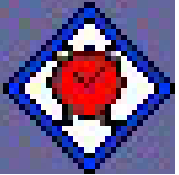
MODIFIERS

	Output A	String this modifier to an icon to select output port A.
	Input 1	String this modifier to an icon to select input port 1.
	Power level 1	String this modifier to a motor or lamp to change the power level to 1.
	Random number	A random number between 0 and 8.
	Numeric constant	String this modifier to an icon that requires a constant value.




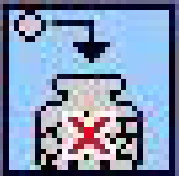
TIMERS

	Wait for timer	Wait for timer to reach a certain value. The value must be specified in 10ths of seconds. YOU MUST RESET THE TIMER FIRST!
	Timer fork	Have the program choose between one of two branches depending on the value of the timer. The default is 5 seconds of the red timer.






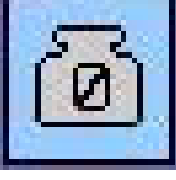
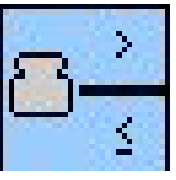
TIMERS

	Reset timer	Reset the timer to 0.
	Red timer	String this modifier to an icon to specify the red timer. There is also a blue and yellow timer.
	Value of red timer	This is the value of the red timer.



CONTAINERS

	Fill container	Fill a container with a specified value. The default value is 1 in the red container.
	Add to container	Add a number to the container. The default is adding 1 to the red container.
	Subtract from container	Subtract a number from the container. The default is subtracting 1 from the red container.
	Multiply to container	Multiples a number to the container. The default factor is 2 to the red container.




CONTAINERS

	Divide container	Divide the container by a specified value. The default value is 2 to the red container.
	Touch container	Set the container to the value of the touch sensor. The default is the touch sensor on Port 1 to the red container.
	Light container	Set the container to the value of the light sensor. The default is the light sensor on Port 1 to the red container.
	Rotational container	Set the container to the value of the rotational sensor. The default is the rotational sensor on Port 1 to the red container.
	Timer container	Set the container to the value of the timer. The default is the red timer to the red container.
	Zero container	Fill the container with a value of 0. The default is the red container.
	Container fork	Have the program choose between one of two branches depending on the value of the container. The default value is 1 on the red container.

CONTAINERS

	Red container	String this modifier to an icon to specify the red container. There is also a blue and yellow container.
	Value of red container	The value of the red container.

RESETS

	Zero rotational sensor	Sets the value of the rotational sensor to 0.
	Zero container	Fill the container with a value of 0.
	Reset timer	Reset the timer to 0.