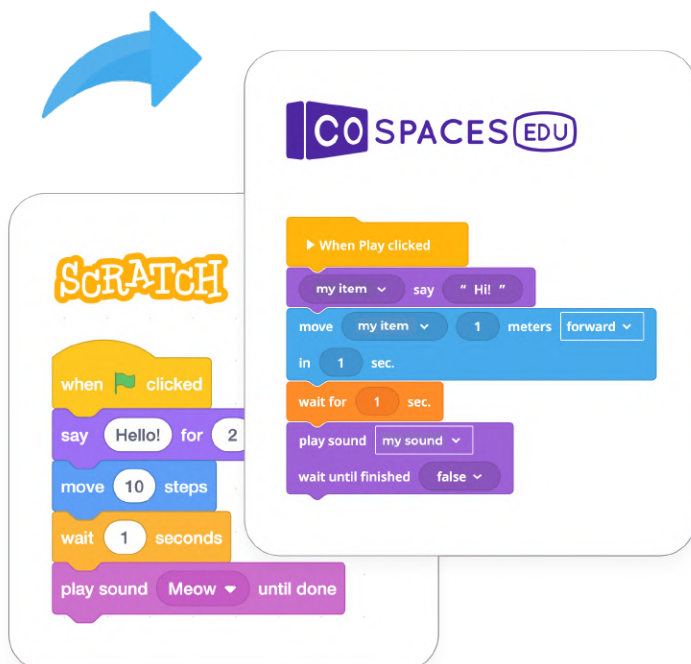




From Scratch to CoBlocks


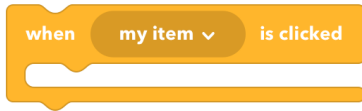
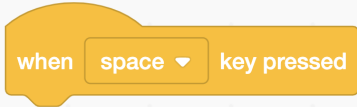




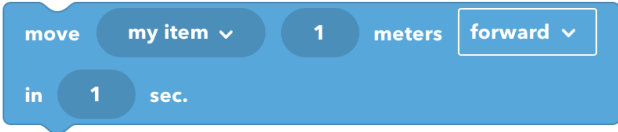



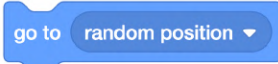

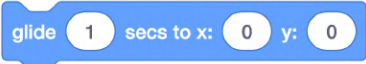
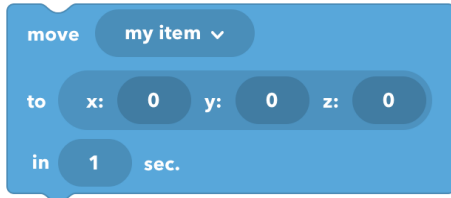


Last updated: April 2021

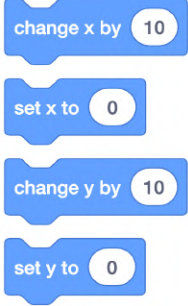
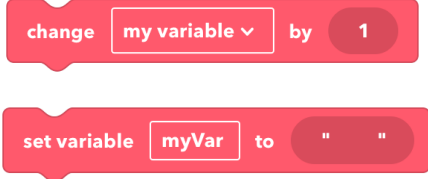
Side-by-side
comparison of the key
coding blocks

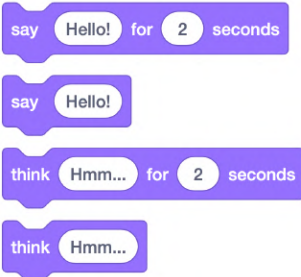

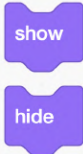
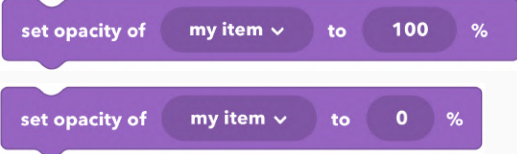
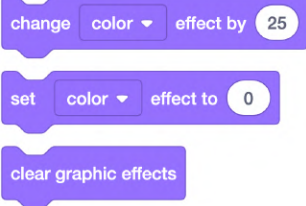
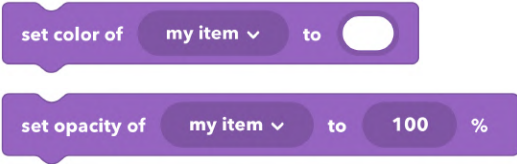
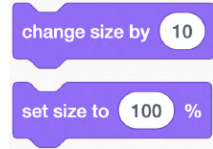
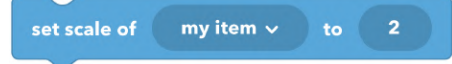
Scratch

CoBlocks

Events	Events
	
	

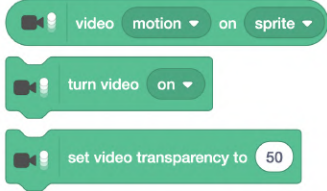
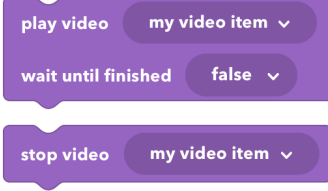
Motion	Transform
	
 	
  	
<input type="checkbox"/> x position <input type="checkbox"/> y position <input type="checkbox"/> direction	 

Motion	Data
 <p>change x by 10</p> <p>set x to 0</p> <p>change y by 10</p> <p>set y to 0</p>	 <p>change my variable by 1</p> <p>set variable myVar to</p>

Looks	Actions
 <p>say Hello! for 2 seconds</p> <p>say Hello!</p> <p>think Hmm... for 2 seconds</p> <p>think Hmm...</p>	 <p>my item say "Hi!"</p> <p>my item think "Hm..."</p>
 <p>show</p> <p>hide</p>	 <p>set opacity of my item to 100 %</p> <p>set opacity of my item to 0 %</p>
 <p>change color effect by 25</p> <p>set color effect to 0</p> <p>clear graphic effects</p>	 <p>set color of my item to</p> <p>set opacity of my item to 100 %</p>
Looks	Transform
 <p>change size by 10</p> <p>set size to 100 %</p>	 <p>set scale of my item to 2</p>

Sound	Actions
<p>play sound Meow ▾ until done</p> <p>start sound Meow ▾</p>	<p>play sound my sound ▾</p> <p>wait until finished false ▾</p>
<p>stop all sounds</p>	<p>stop sound my sound ▾</p>

Control	Control
<p>wait 1 seconds</p>	<p>wait for 1 sec.</p>
<p>repeat 10</p> <p>forever</p>	<p>repeat 1 times</p> <p>forever</p>
<p>if then</p> <p>if then else</p> <p>wait until</p>	<p>if 1 < ▾ 2</p> <p>if 1 < ▾ 2 ⚙️</p> <p>else</p>
<p>wait until</p> <p>repeat until</p> <p>stop all ▾</p>	<p>repeat while ▾ false ▾</p> <p>break out of loop</p>

Video Sensing	Actions
	

Operators	Operators
