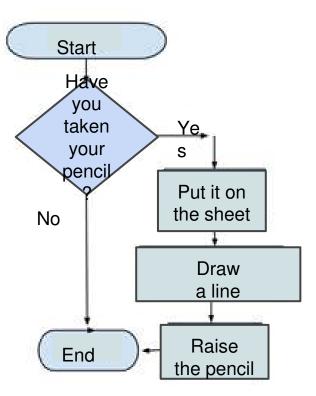
Code Their Dreams Unit 1: Our First Game



Algorithm and Program (Code)

2

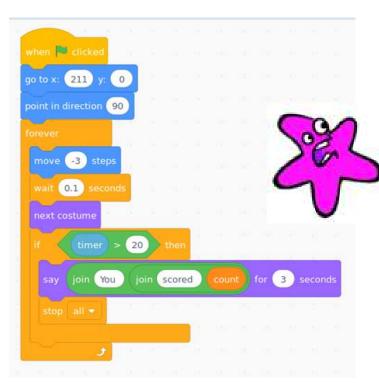


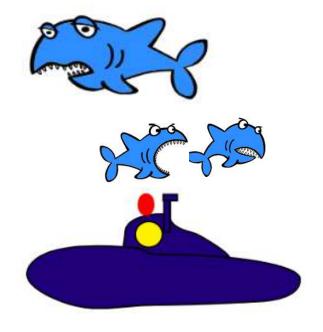
<pre>char incomingByte;</pre>	// пер
int LED = 13;	// LEC
<pre>void setup() {</pre>	
<pre>Serial.begin(9600); // :</pre>	инициали
<pre>pinMode(LED, OUTPUT); /</pre>	/ вывод
}	
<pre>void loop() {</pre>	
if (Serial available() :	> 0) {
incomingByte = Serial.r	ead(); /
<pre>if(incomingByte == '0')</pre>	
digitalWrite(LED, LOW)	;
<pre>if(incomingByte == '1')</pre>	
digitalWrite(LED, HIGH);





Sprite and Script (Code)





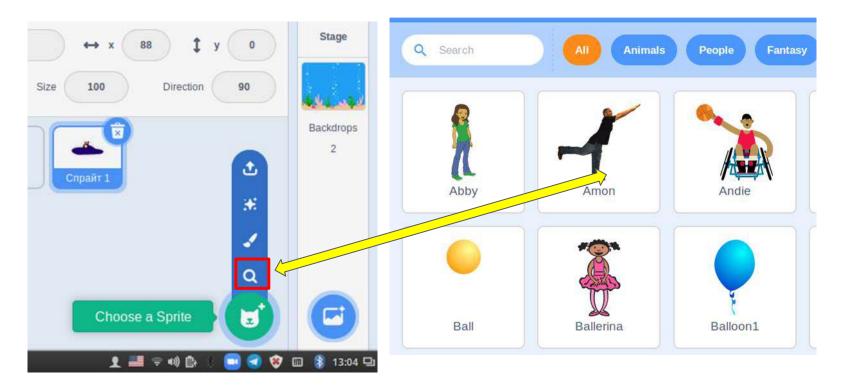




CODE THE/R DREAMS

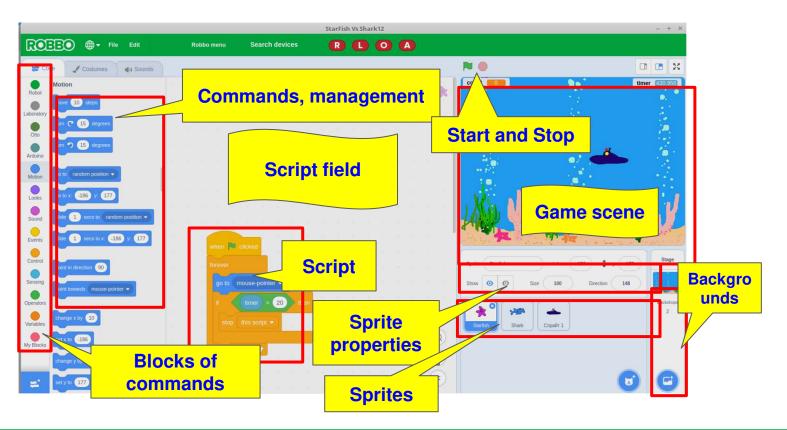
Choose Sprite

4





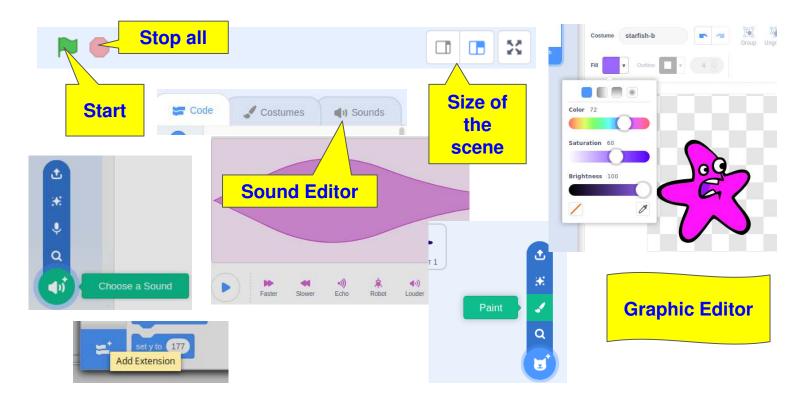
Scratch Interface (RobboScratch3)







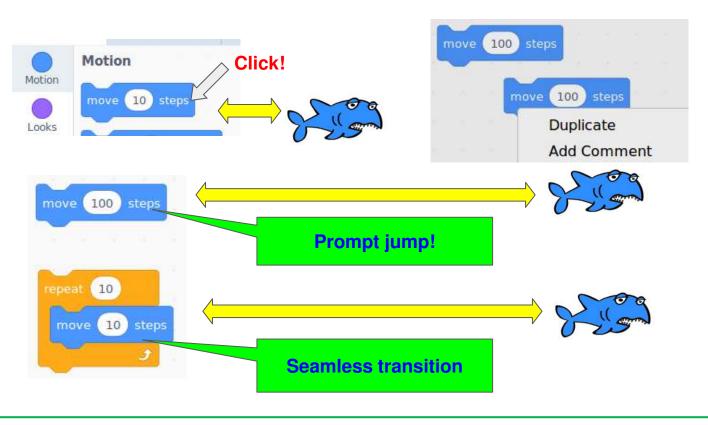
Scratch Interface (RobboScratch3)







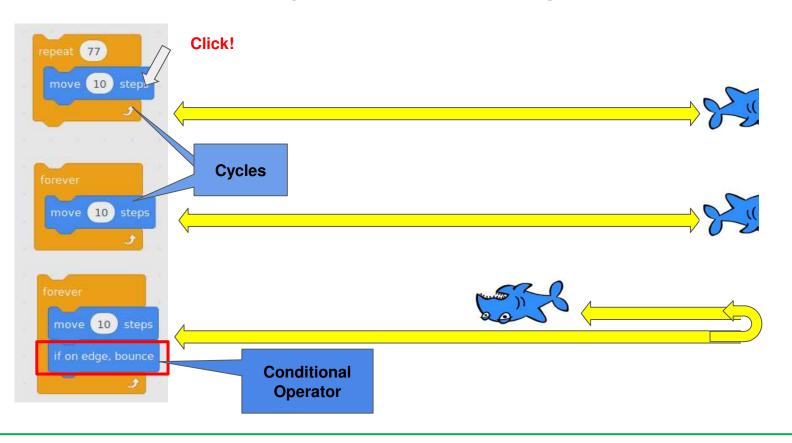
Commands. Motions. Cycle.





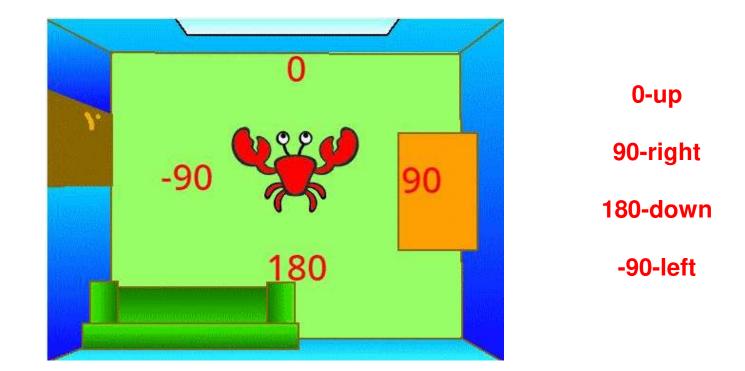


Commands. Cycles. Conditional Operator.





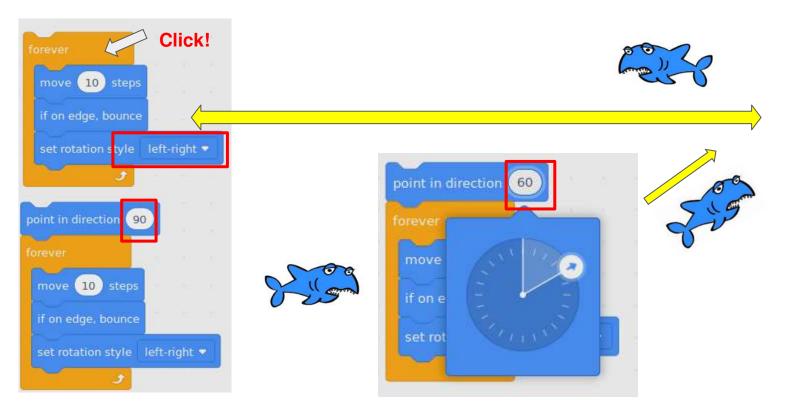
Commands. Direction in degrees







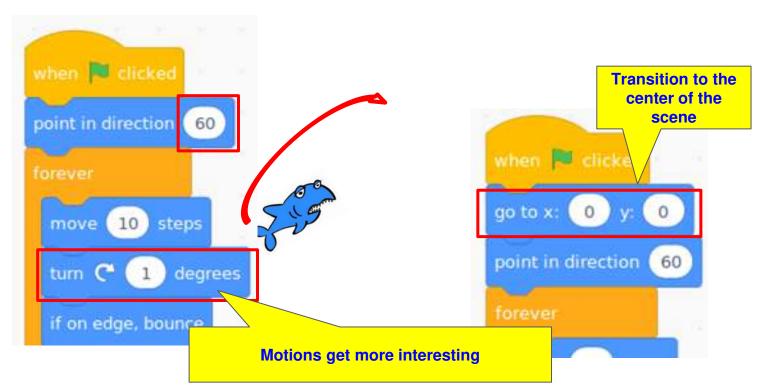
Commands. Direction. Scoping





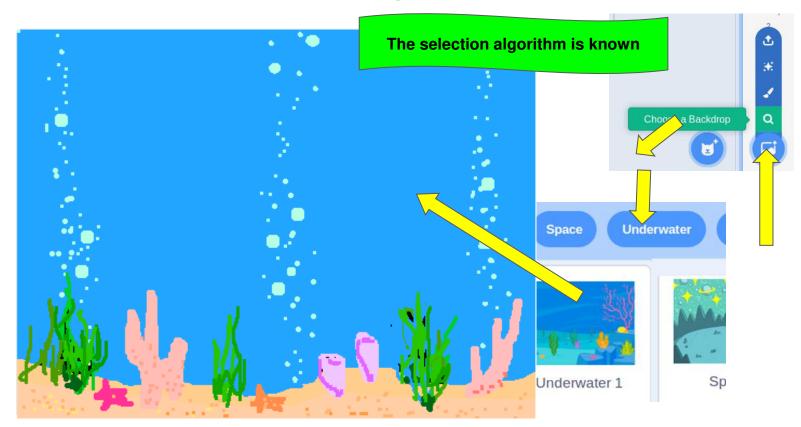


Commands. Rotation. Center, X and Y.





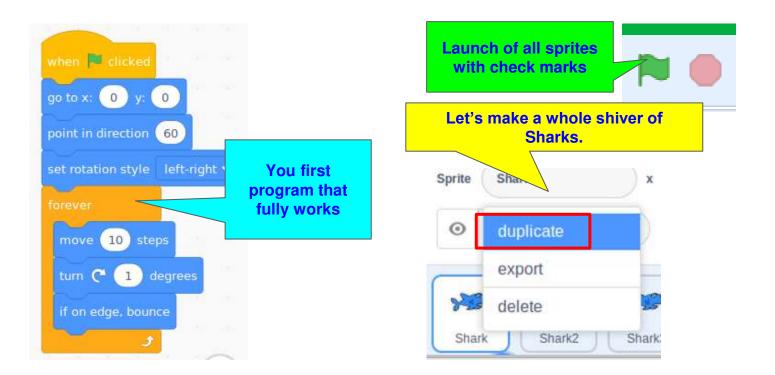
Background







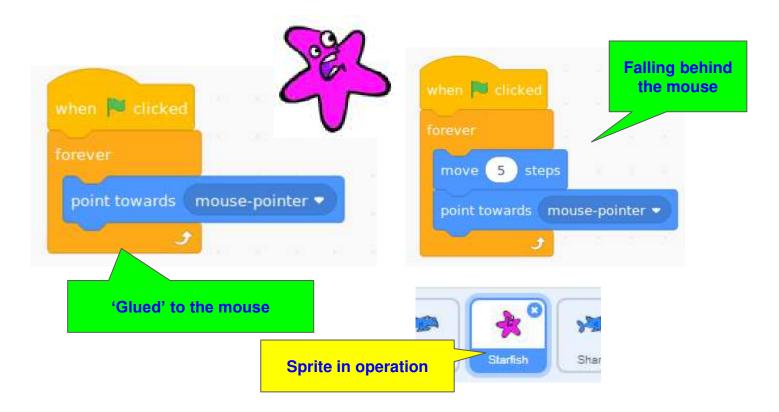
The program works!





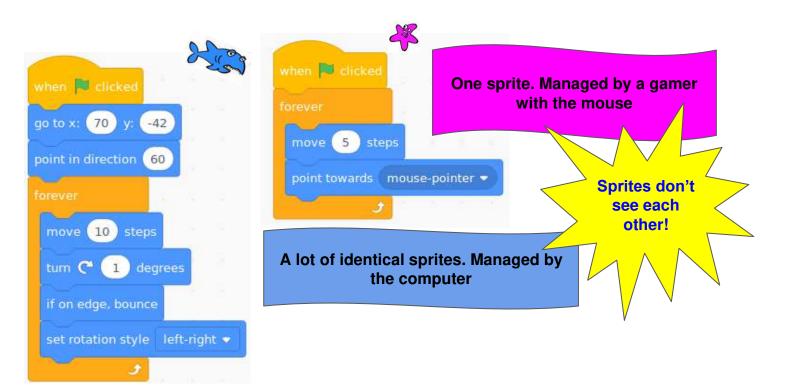


Commands. Any movement depends on others.





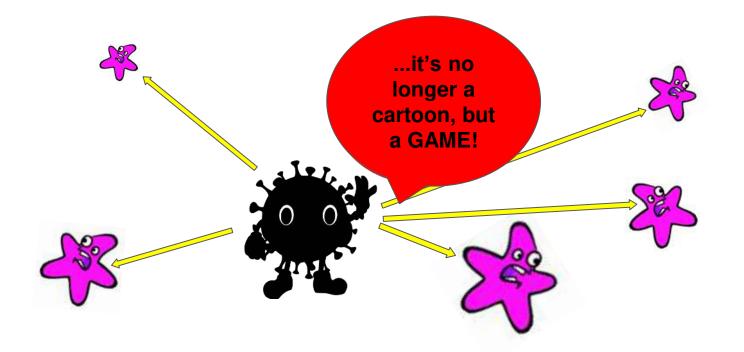
Interactive cartoon







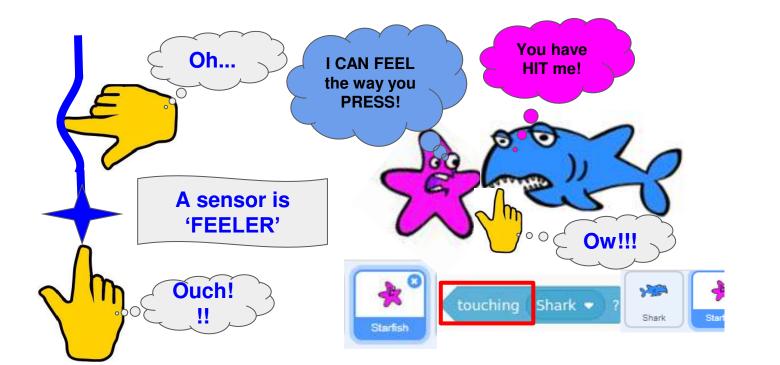
If you have an influence on the characters of the cartoon...







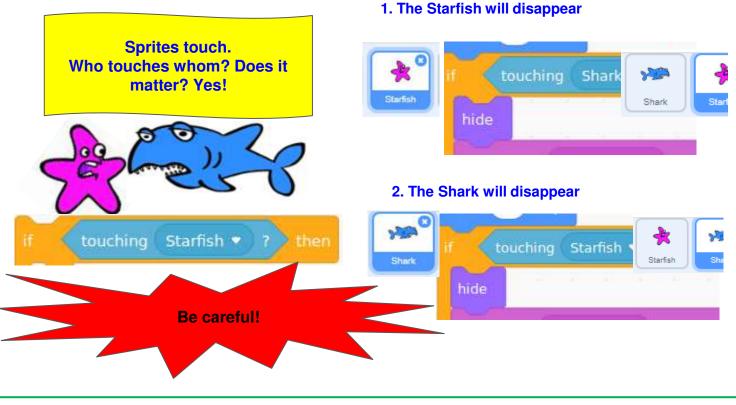
Sprite Sensors.







Who has sensors?



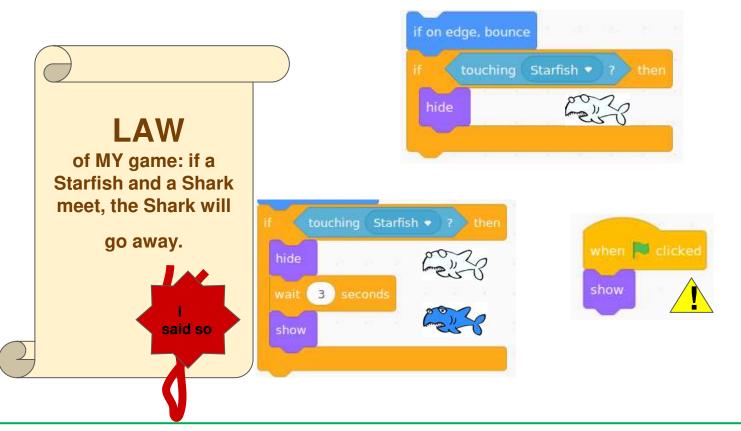




EODE THE/R DREAMS

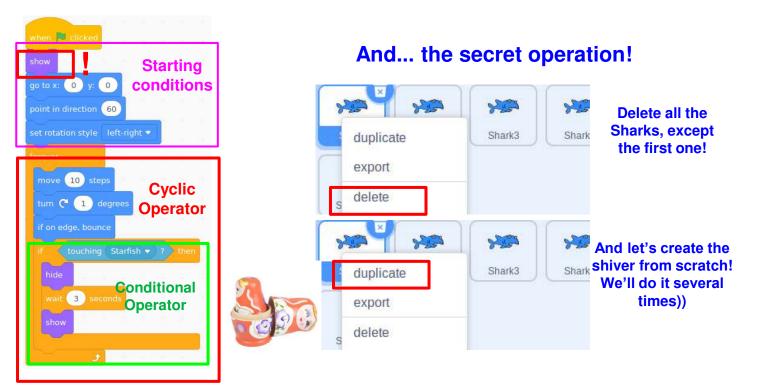
CDG

Create YOUR world!





The Program for the Shark is Getting More Complicated.

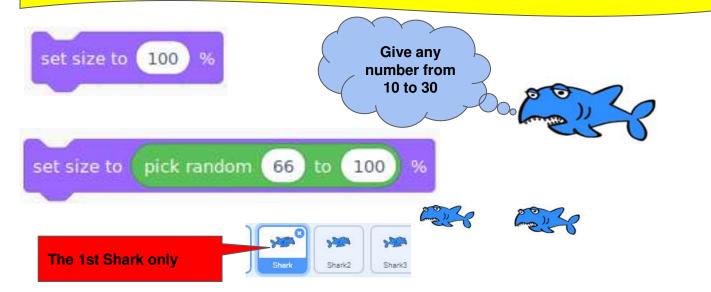






Random Numbers. Size.

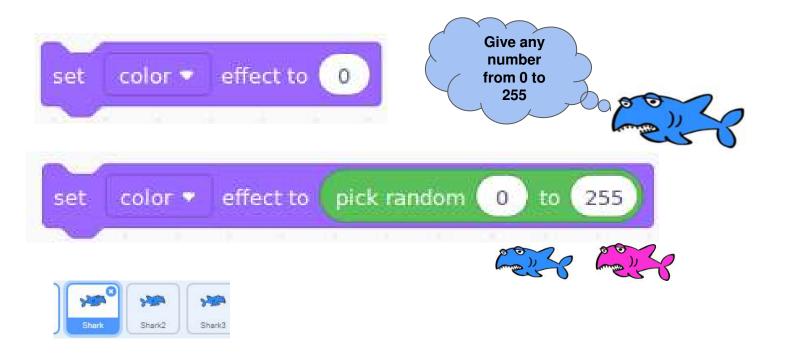
We have a lot of Sharks, but they are identical. Let's change it! Let each of them has it own weight, color and personality.







Random Numbers. Color.





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Random Numbers. Direction.



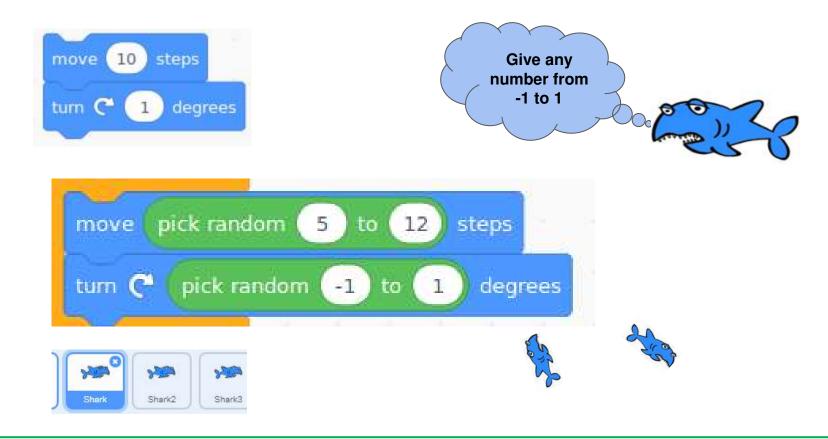


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Random Numbers. 'Personality'.







The game has become more spectacular.







EODE THE/R DREAMS

Physical Activity Breaks

26



