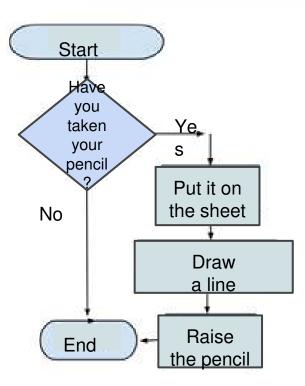
Code Their Dreams Unit 1: Our First Game



Algorithm and Program (Code)

2

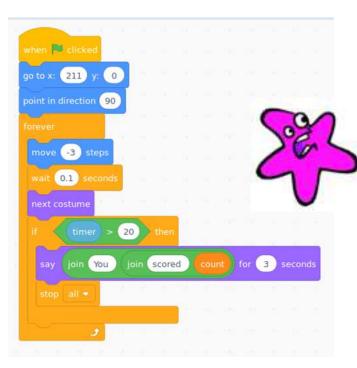


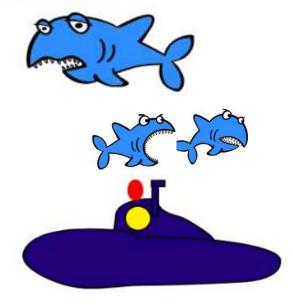
```
char incomingByte;
                         // 1
                          11 1
int LED = 13;
void setup() {
Serial.begin(9600); // ИНИЦИ
pinMode(LED, OUTPUT); // BMB
void loop() {
if (Serial.available() > 0)
incomingByte = Serial.read().
if(incomingByte == '0')
 digitalWrite(LED, LOW);
if (incomingByte == 'l')
 digitalWrite(LED, HIGH);
```





Sprite and Script (Code)

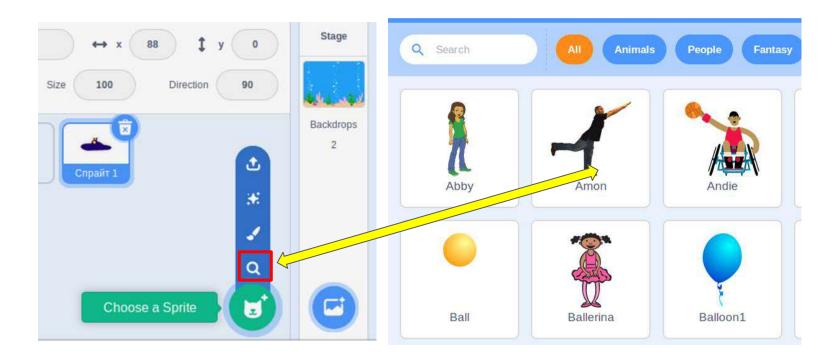








Choose Sprite

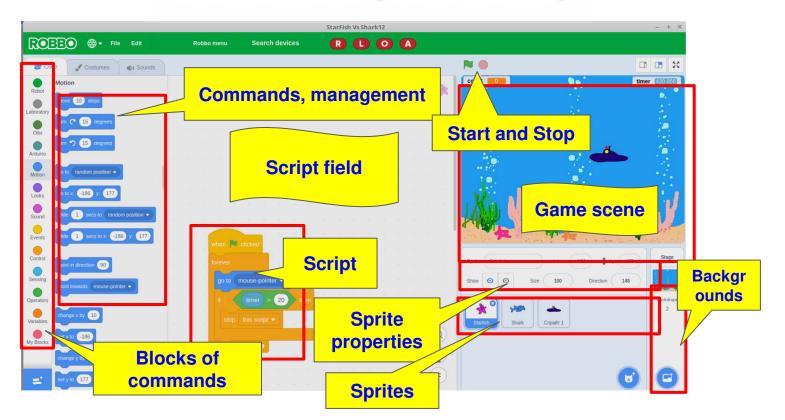






Scratch Interface (RobboScratch3)

5

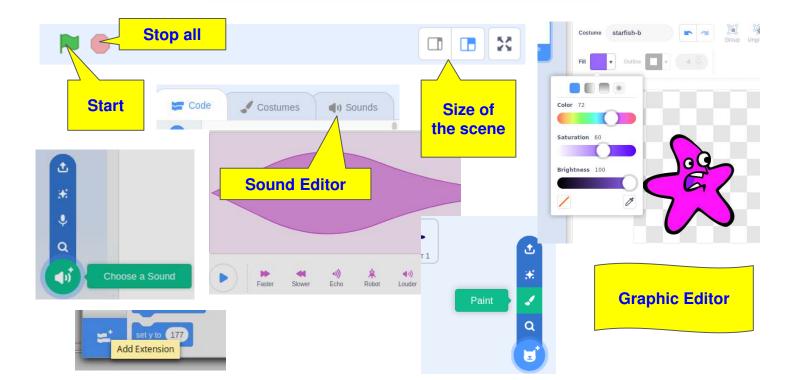






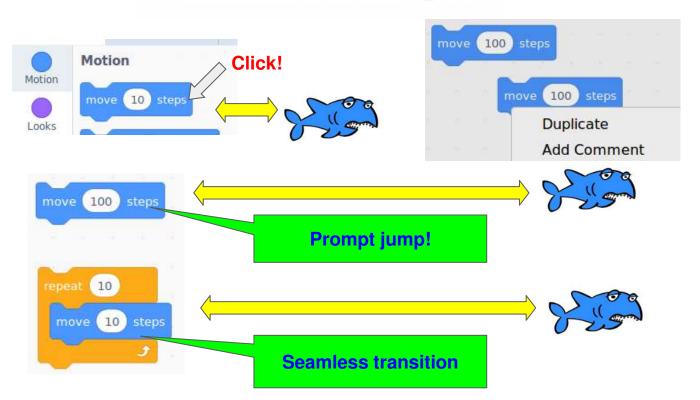
EODE THE/R DREAMS CDG

Scratch Interface (RobboScratch3)





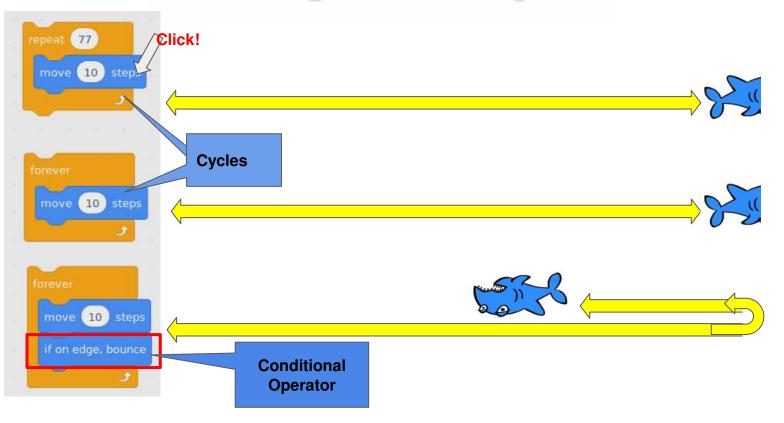
Commands. Motions. Cycle.





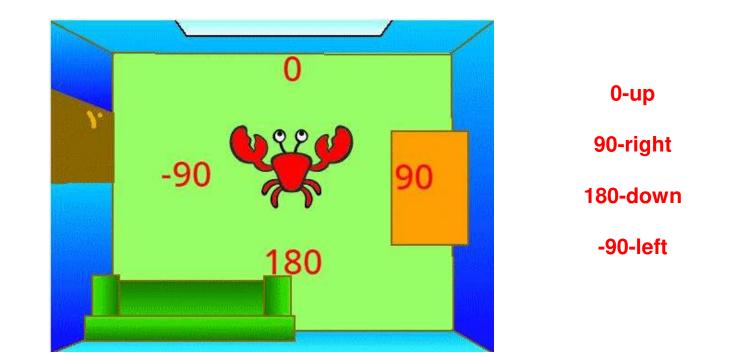


Commands. Cycles. Conditional Operator.





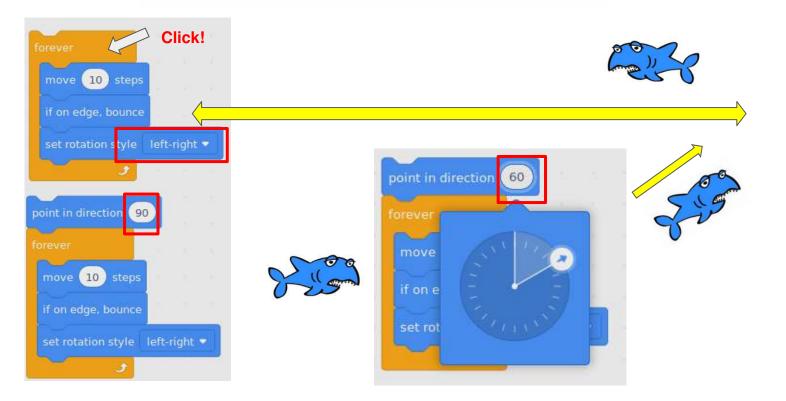
Commands. Direction in degrees





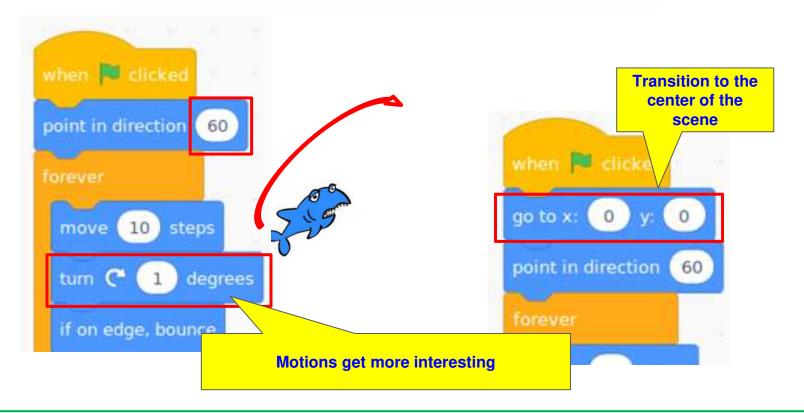


Commands. Direction. Scoping





Commands. Rotation. Center, X and Y.







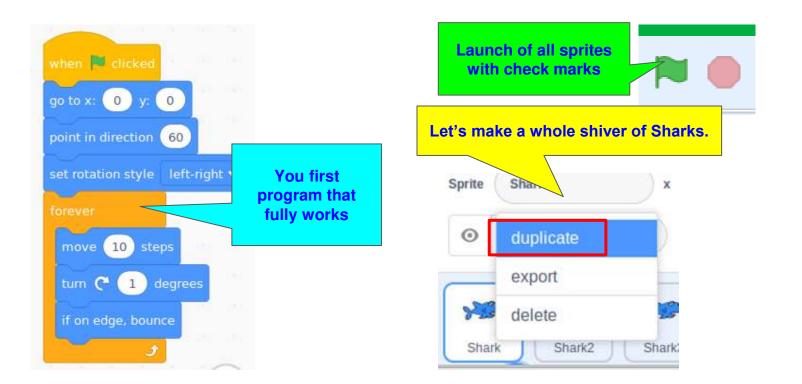
Background







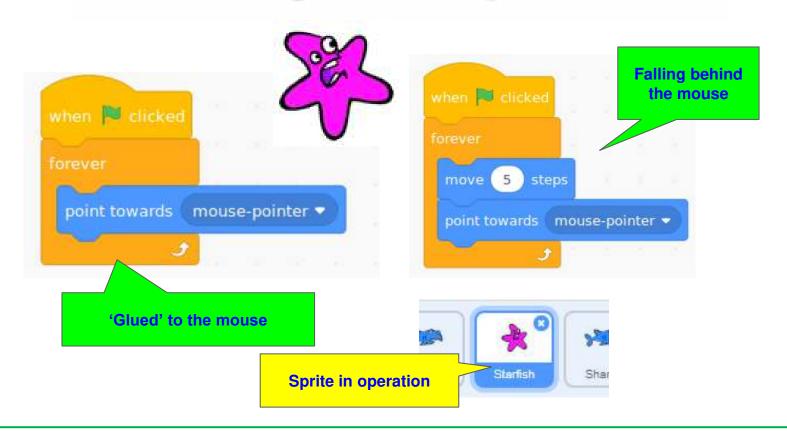
The program works!







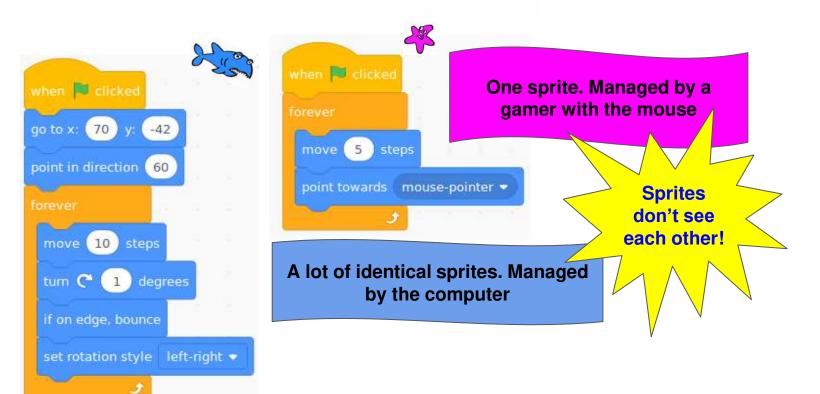
Commands. Any movement depends on others.







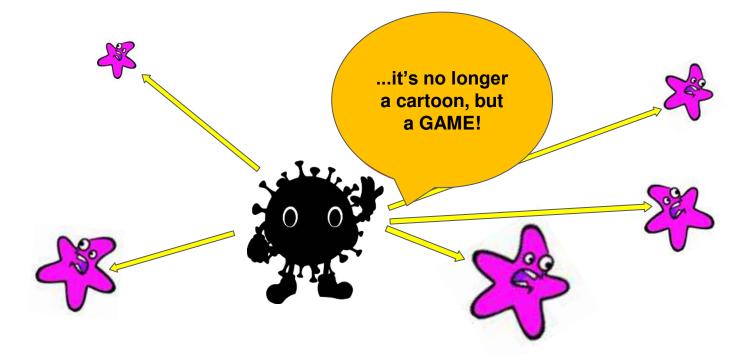
Interactive cartoon







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







In Scratch, the characters are sprites

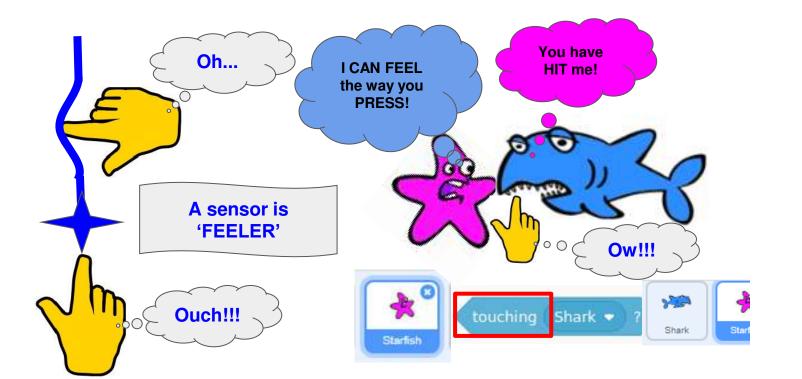


In the game, sprites make their own decisions. They see other sprites and surroundings, they can hold, push, catch. But for all this, the sprite needs senses. Then the sprite becomes a virtual robot.





Sprite Sensors.



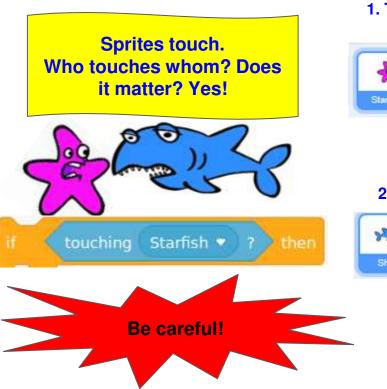


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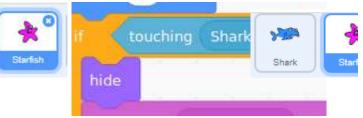
Tel: 02-8845343-4, MB: 08 1019 3966, 08 7029 1414



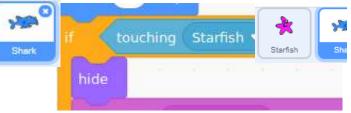
Who has sensors?



1. The Starfish will disappear



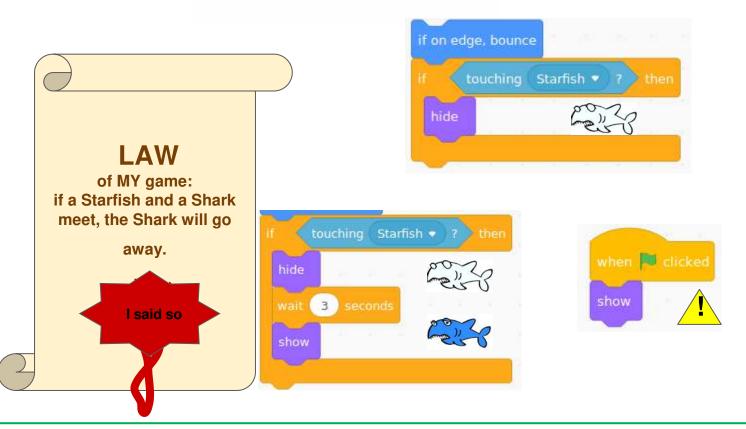
2. The Shark will disappear







Create YOUR world!



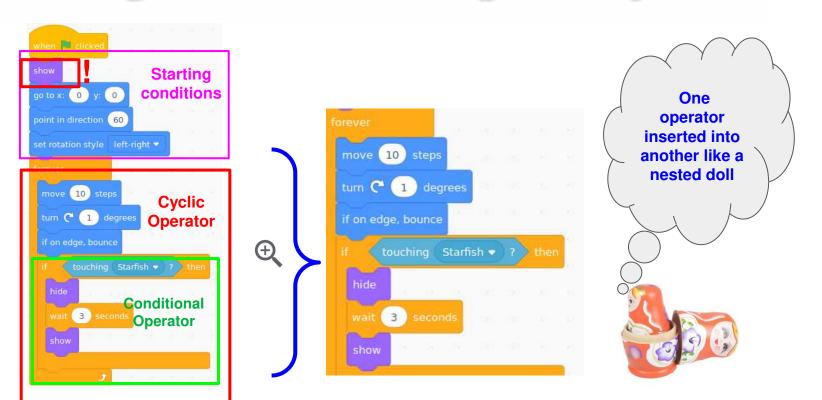




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The Program for the Shark is Getting More Complicated.

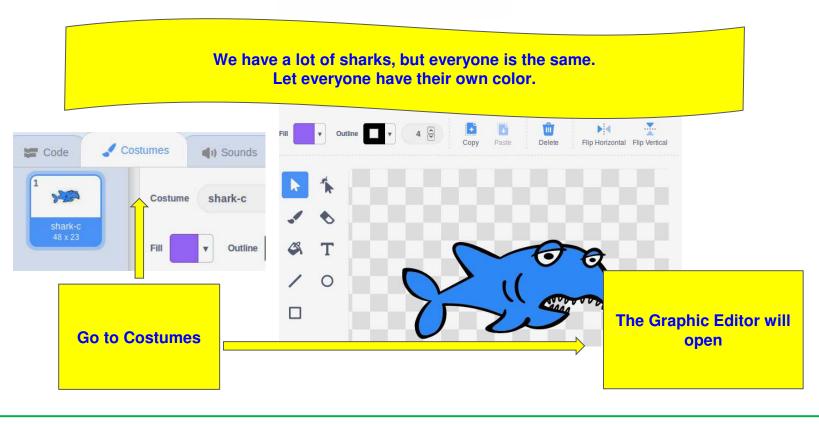




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Graphic editor



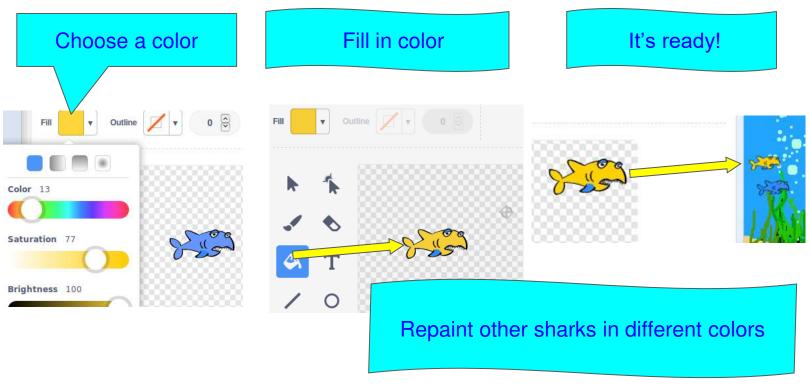




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Introduction to the Graphic Editor





Physical Activity Breaks

