Scratch Level 1: Code Your Own Game TUTORIAL #3: Score & Lives

*This tutorial will help you:

- ✓ Create *variables* for score and lives.
- ✓ Increase score and decrease lives when sprites interact.

STEP ONE:

Open the Scratch project you created for Tutorial #2. (Remember that in Tutorial #2, we coded an interaction between the two sprites.)

STEP TWO:

Create a variable called "Score". Go to the Data category (orange) and click "Make a Variable". Name your variable "Score", and choose "For all sprites". You'll now see new orange blocks in the Data category:



STEP THREE:

Create a variable called "Lives". Follow the same steps you used to create your score variable. When you've finished, you'll see an orange "Lives" block in the Data category.

STEP FOUR:

Add a point (increase the score) when the red fish touches the yellow fish.

Click on your yellow fish. You should see your code from Tutorial #2. Add the block *"change Score by 1"* inside the if/then block. This will add a point to your score each time the red fish touches the yellow fish.

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STEP FIVE:

Add a new shark sprite. We need a bad guy for our game. Add a shark to your project. If the shark touches the red fish, we'll take away one of our lives.

STEP SIX:

Add this code to your <u>red fish</u> to decrease lives when the red fish touches the shark. Click on your red fish. Add the block *"change Lives by -1"* inside the if/then block. This will take away a life each time the red fish touches the shark.

STEP SEVEN:

_Wait—how do I reset my score and lives??

Add the code blocks "set Score to 0" and "set Lives to 3" right under the orange event block.

Remember that you'll add these blocks to different sprites. Try to guess which code goes with which sprite!







IF TIME PERMITS: EXTENSION TASKS

See if you can restrict a sprite's motion to a specific zone/area. Use your knowledge of position (x and y coordinates) and conditional statements to sense where your sprite is!



New sprite: 👳 🖊 🚢 👩