**Primer on Creating a MakeCode Tutorial**

The MakeCode tutorial creation tool is located at : <https://makecode.com/tutorial-tool>

**SCALE K-12 Tutorial Repository**

The repository containing SCALEK-12 tutorial source code is located at: <https://github.com/scalek12/Tutorial_SourceCode>

**MakeCode Tutorial Documentation**

The MakeCode Tutorial Basics documentation is here: <https://makecode.com/writing-docs/tutorials/basics>

A useful MakeCode Snippets document is here: <https://makecode.com/writing-docs/snippets>. This document gives information about how to render buttons inside your instructions e.g. ``||basic: Basic||``

It shows how to make menu items available in the tutorial e.g.

```ghost

basic.showIcon(IconNames.Happy)

basic.showIcon(IconNames.Sad)

```

Also shows how to make template code e.g.

```template

let number\_on\_die = 0

input.onButtonPressed(Button.A, function () {

number\_on\_die = randint(0, 10)

basic.showNumber(number\_on\_die)

if (true) {

} else {

}

})

```

**Syntax**

The exact syntax for how to render every button within the tutorial is not well documented. However, in general, I will put the code blocks on MakeCode and then switch to JavaScript view to see what the text-based code says. This acts as a clue.

Typically format for inline buttons is

|  |  |
| --- | --- |
| **Symbol** | **Description** |
| `` | Two opening accent marks |
| || | Two opening pipe marks |
| text | Top level toolbox menu name e.g. basic, input |
| : | colon |
| text | Sub menu item e.g. showIcon, onShake |
| || | Two closing pipe marks |
| `` | Two closing accent marks |

**Examples**

|  |  |
| --- | --- |
| **Syntax** | **Renders** |
| ``||logic:Logic||`` |  |
| ``||basic:showIcon||`` |  |
| ``||logic: 0=0||`` |  |
| ``||logic:if then else||`` |  |
| ``||variable:number\_on\_die||`` |  |

**Filename Conventions**

Save your code with a file extension of .md for your tutorial code.

**Sample Tutorial Code**

The code in this repository is a bit outdated per the new documentation, however looking at examples could be helpful for you.

<https://github.com/ajonespenn/makecode-tutorials/tree/main/first-lessons>