Using Blockly in Jupyter Notebooks

What is Blockly?

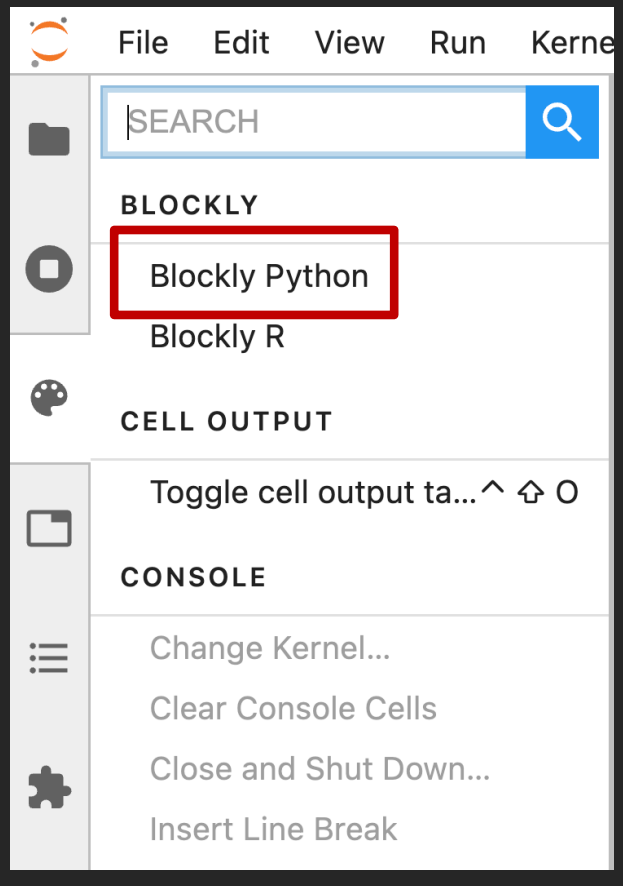
- Block-based programming editor
- Users place interlocking, graphical blocks representing code concepts
- Blockly generates equivalent Python code


```
print('Hi')
```

How-to: Open Blockly Interface (1)

1. Open Commands
2. Click Blockly Python

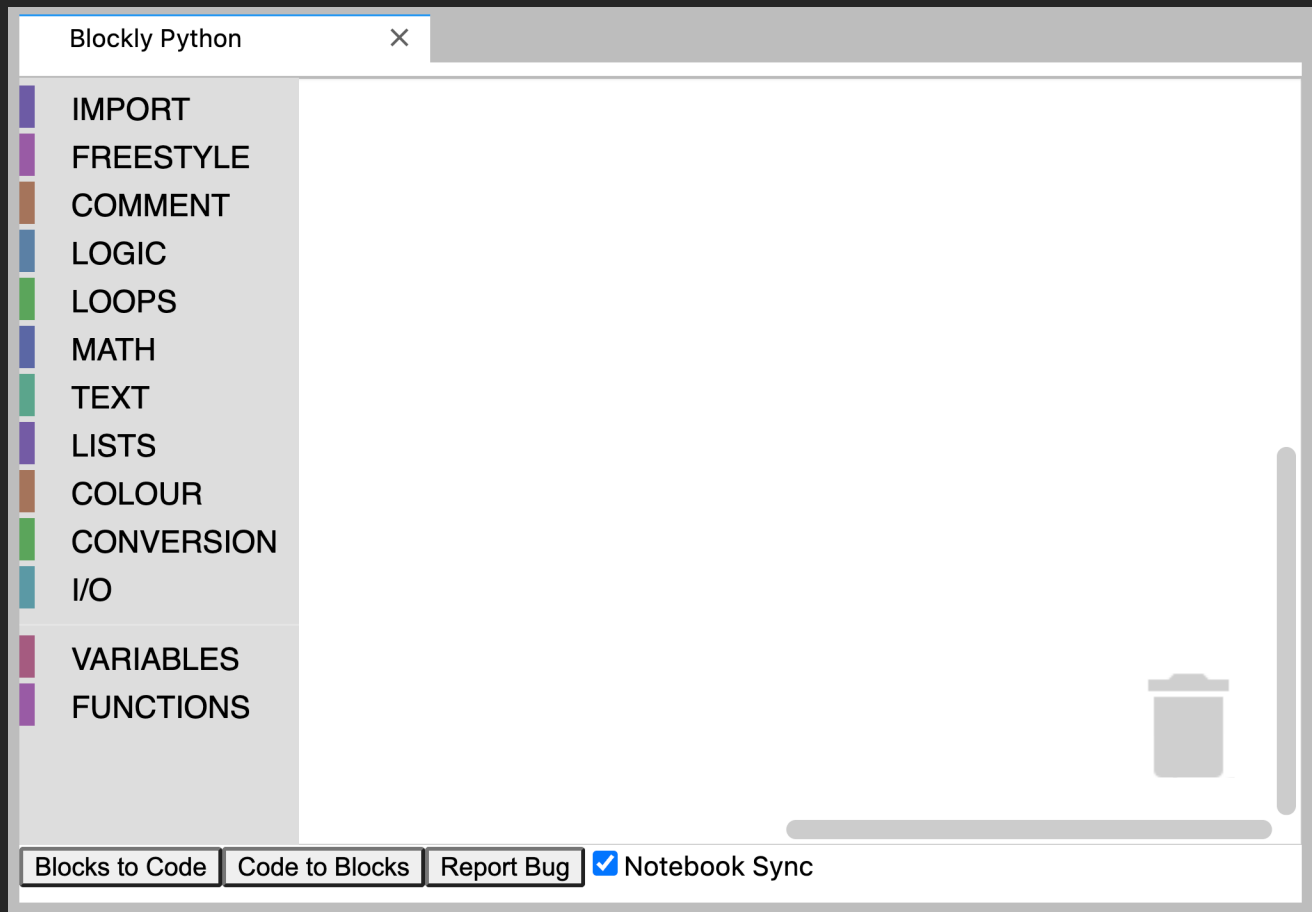
This will open a Blockly tab.



How-to: Open Blockly Interface (2)

This is how the Blockly Editor **should look**...

But sometimes it may not render correctly...

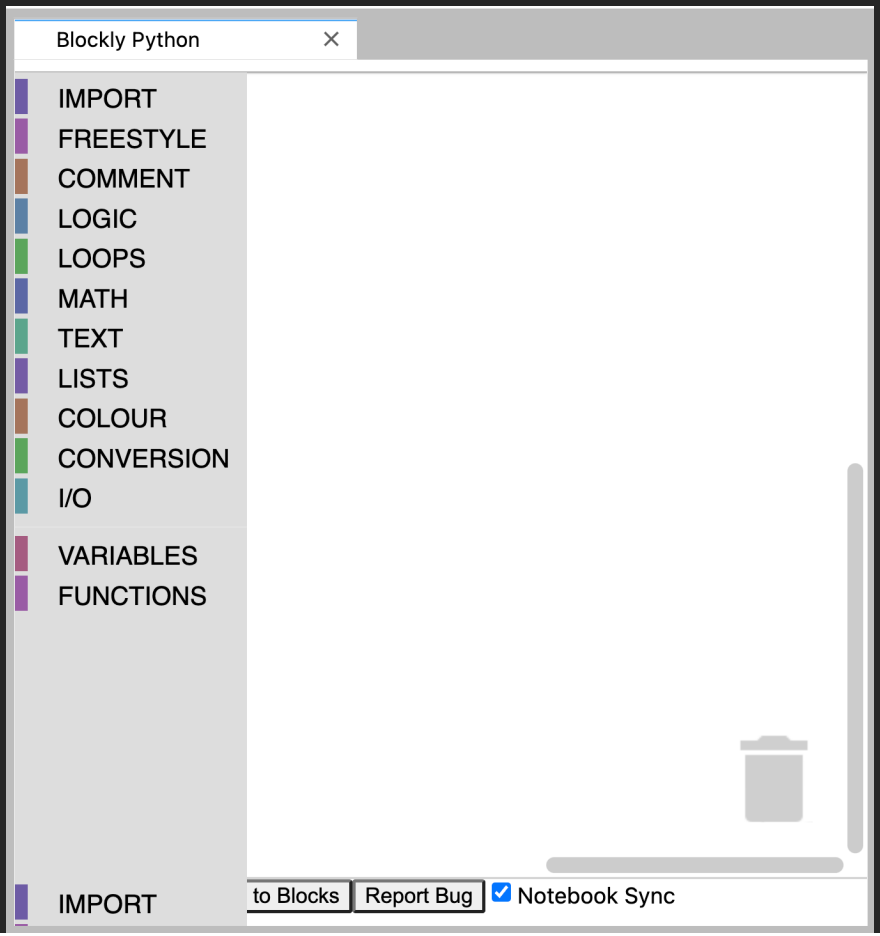


How-to: Fix Blockly Interface Render Issues

Solution: Reload the page.

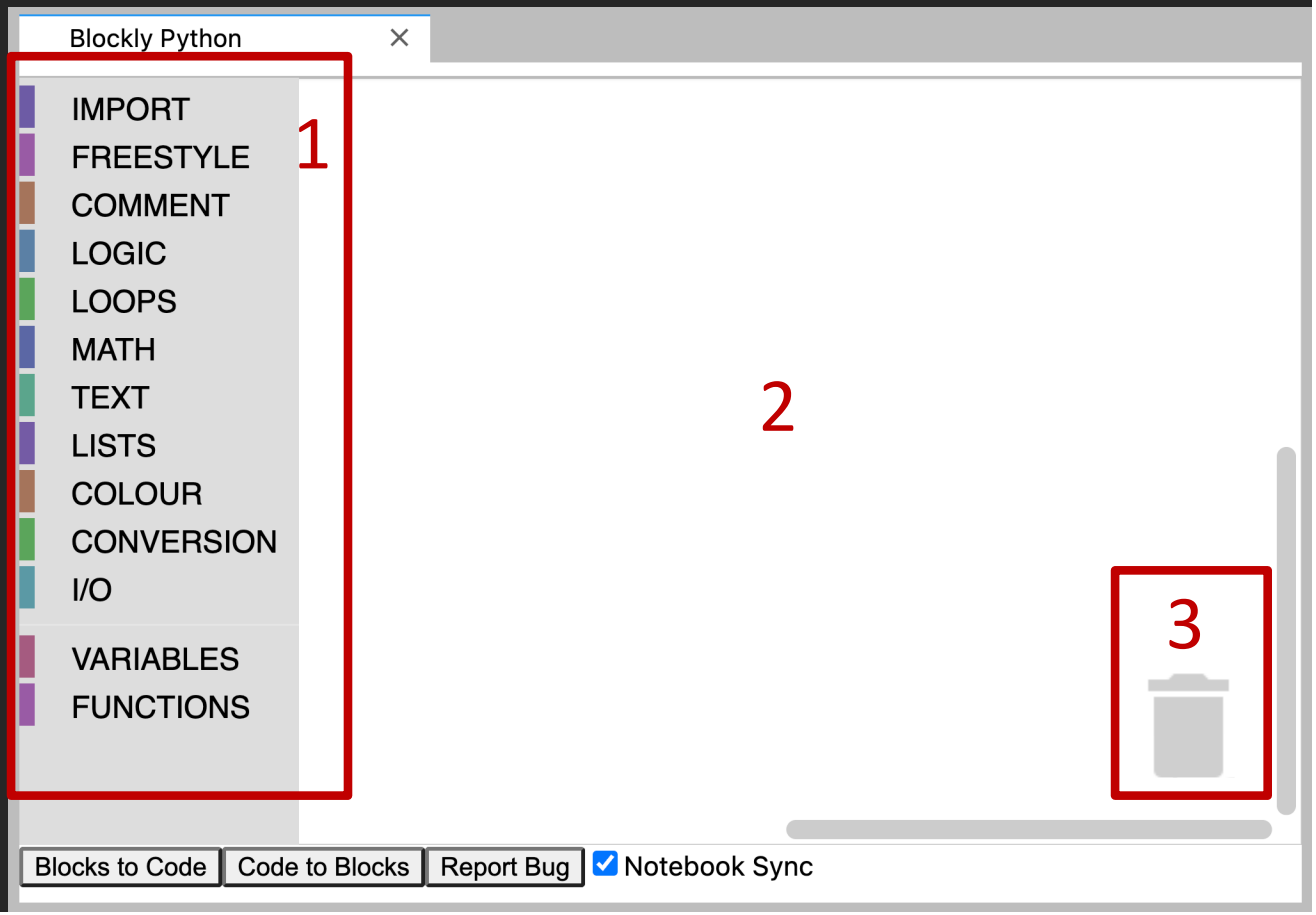
To avoid render errors:

1. Open the Blockly Editor
2. Close the Blockly Editor
3. **Reload this page**
4. Open the Blockly Editor



Blockly Interface

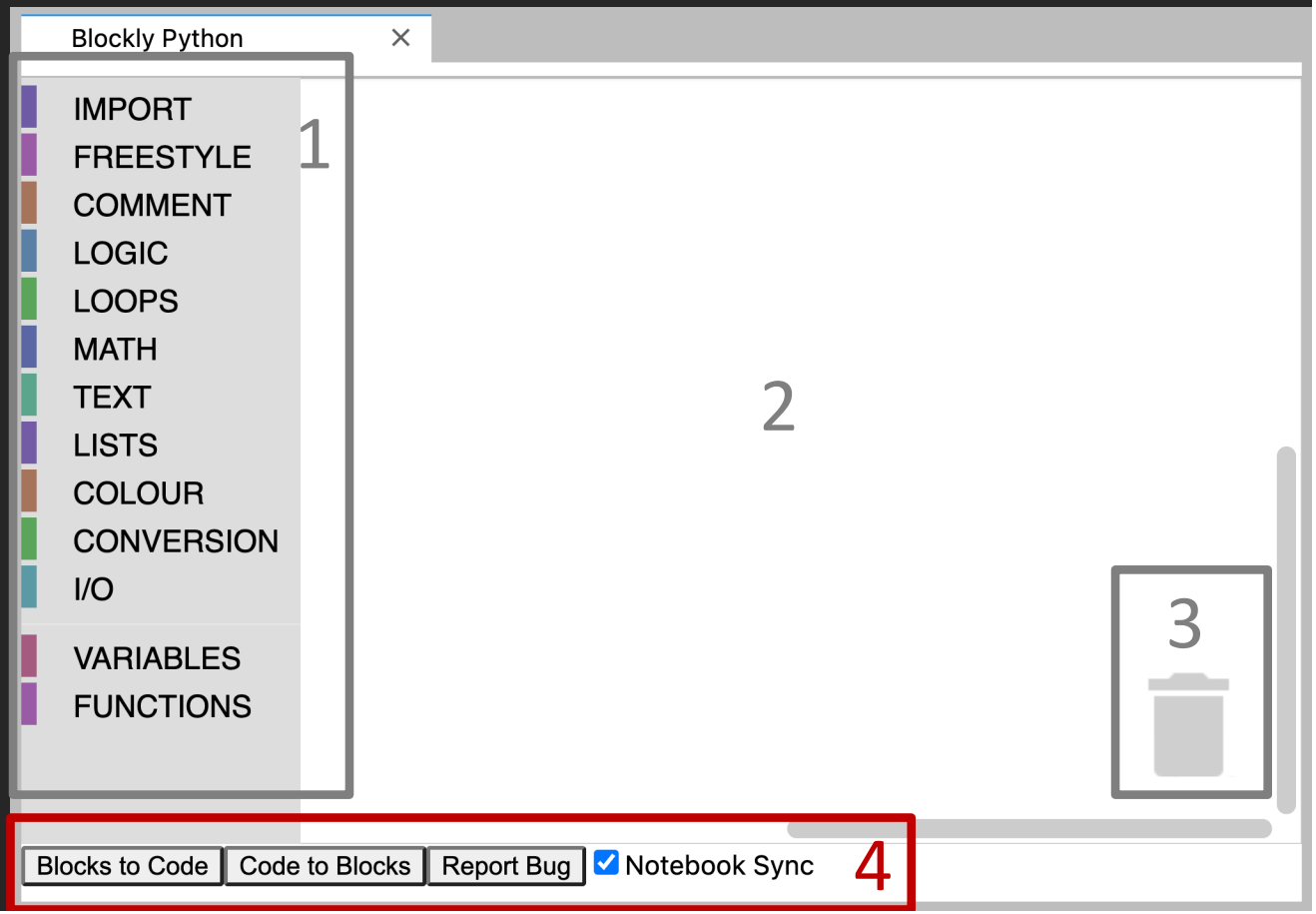
1. Blockly Toolbox
2. Blockly Workspace
3. Blockly Trash Can



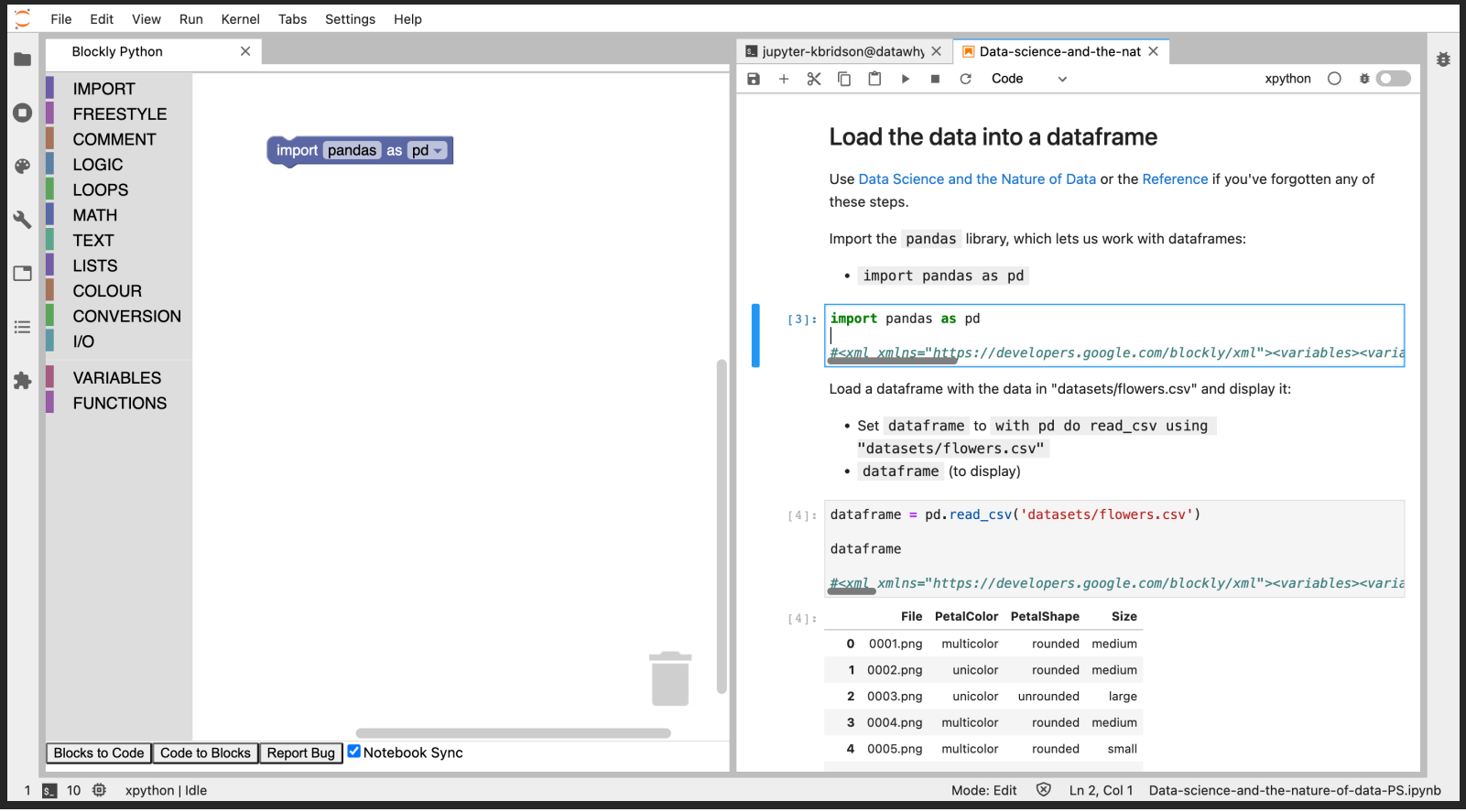
Blockly Interface

1. Blockly Toolbox
2. Blockly Workspace
3. Blockly Trash Can

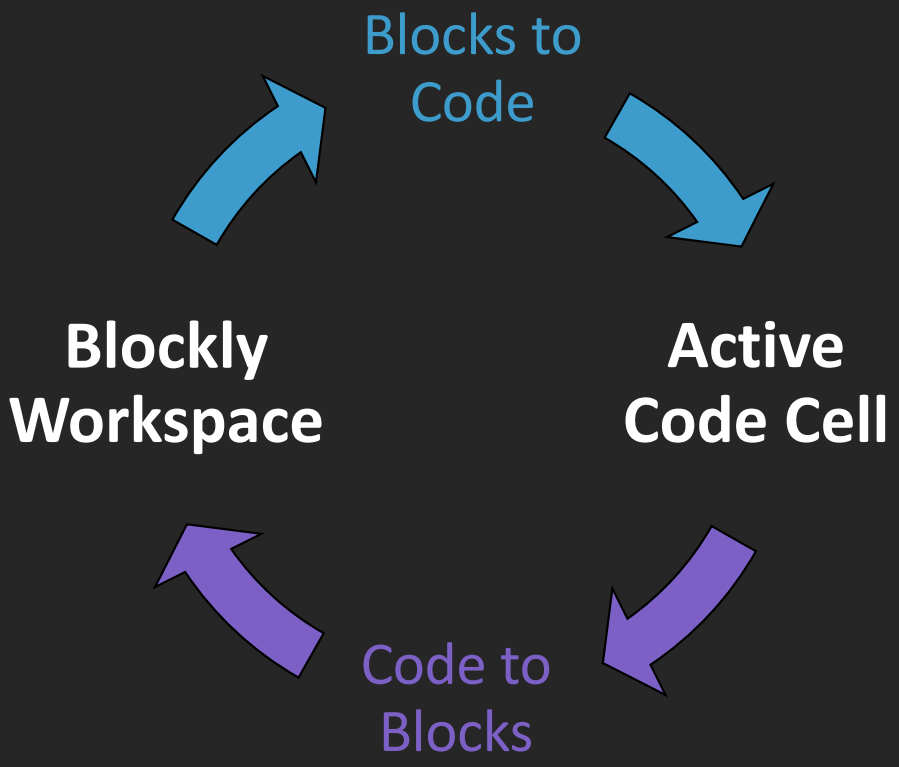
4. JupyterLab Blockly Integration Toolbar



Using JupyterLab with Blockly

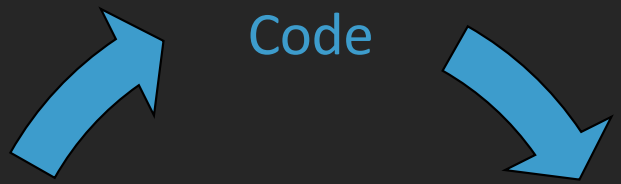


JupyterLab Blockly Integration



Blocks to Code

Blocks

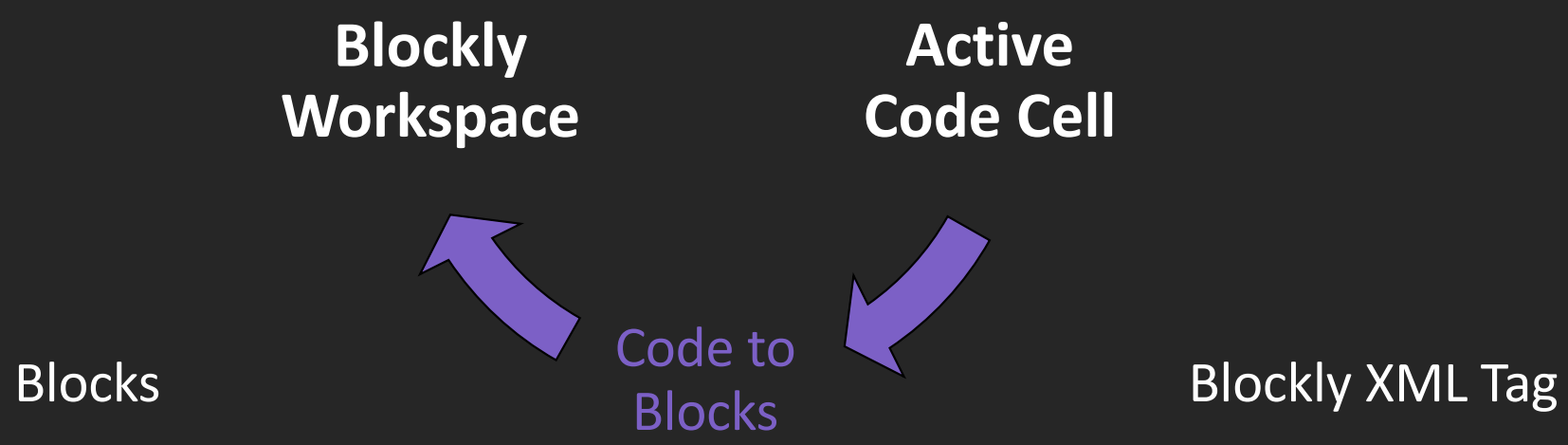


Python code
Blockly XML Tag

Blockly Workspace

Active Code Cell

Code to Blocks



Summary

- Blockly Interface
- Blocks to Code and Code to Blocks
- How to add code to notebook cell with Blockly