



# Creating ArcGIS Add-Ins

Joel McCune & Darrin Baird

A decorative graphic consisting of a blue, 3D-rendered ribbon that weaves across the bottom half of the slide. The ribbon has several loops and folds, and some of its segments feature a white five-pointed star. The background of the slide is a scenic view of the Washington Monument and the Jefferson Memorial in Washington, DC, with cherry blossoms in bloom along the waterfront.

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# Python Add-In's

- Python – Joel McCune
- C# – Darrin Baird

# ArcGIS Add-In's using Python Toolboxes

- **Why?**
  - Reuse Custom Toolboxes
  - Rapid Development
- **How?**
  - Python Add-In Wizard
  - Toolbox in Python Add-In

# Toolbox in a Python Add-In

Joel McCune

```
class Toolbox(object):
def __init__(self):
    """
    Define the toolbox properties here. Do not change the name of this
    class. ArcGIS locates this class by name. It will not be able to find
    the toolbox and your toolbox will not work if you modify this.
    """
    self.label = 'addLayersToolbox'
    self.alias = 'Add Layers Toolbox'

    # List of tool classes associated with this toolbox
    self.tools = [AddLayers]

class AddLayers(object):
    """
    Add documentation here explaining your tool. The name of this class
    identifying the tool is referenced as a list item above, in the Toolbox's
    self.tools list.
    """
def __init__(self):
    """
    Define the tool class attributes, including your tool parameters.
    """
    self.label = 'addLayers'
    self.alias = 'Add Layers'
    self.canRunInBackground = False

    self.parameters = [
        parameter('Input Layer', 'input_layer', 'GPFeatureLayer'),
        parameter('Attribute Field', 'attribute_field', 'GPString')
    ]

def getParameterInfo(self):
    """
    Return your parameter list defined in the __init__ method for the tool.
    If you want to set any additional properties, such as filters, for
    parameters, do this here. Just reference them using their index in the
    parameter list
    """
    # disable layer parameter for now
```



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