Scripting

➔ adds additional functionality to Ignition

➔ enables customization of Ignition to every environment

➔ makes operations faster, changeable, more repeatable

➔ both responds to and generates events

➔ is synonymous with automation

➔ enables connectivity to other software platforms

Python

➔ general-purpose scripting language

➔ runs on all operating systems

➔ very clean, readable, easy-to-use language

➔ very popular; very mature (30+ years)

➔ very large user community

➔ lots of public source code and documentation

Jython

➔   Jython is a Python interpreter written in Java

➔   Java VM runs Jython code; accesses Java classes

➔   Ignition is written in Java; Jython is built-in

➔   Jython is based on **Python 2.7**

➔   Python 3 code will not always run in Jython

➔   https://**jython.org** and https://**python.org**

Ignition Resources

Scripting in Ignition

https://docs.inductiveautomation.com/docs/8.1/platform/scripting

Python Scripting in Ignition

https://docs.inductiveautomation.com/docs/8.1/platform/scripting/python-scripting

Scripting in Ignition - Inductive University

https://inductiveuniversity.com/courses/ignition/scripting-in-ignition/8.1

Ignition Discussion Forums

https://forum.inductiveautomation.com/

Official Websites

Python

https://python.org

Jython

https://jython.org

Inductive Automation

https://inductiveautomation.com/

Python 2 Leaning

Python 2 Documentation

https://docs.python.org/2.7/tutorial/index.html

Python 2 Sandbox

https://onecompiler.com/python2/

Python 3 Learning

Python for Beginners

https://www.python.org/about/gettingstarted/

Google's Python Class

https://developers.google.com/edu/python

Beginning Programming with Python

https://www.w3schools.com/python/

Python 3 Book + **PDF**

https://nostarch.com/python-crash-course-3rd-edition

Code Style Guides

PEP-8

https://peps.python.org/pep-0008/

Google Python Style Guide

https://google.github.io/styleguide/pyguide.html

Google Java Style Guide

https://google.github.io/styleguide/javaguide.html

Oracle Java Language Best Practices

https://docs.oracle.com/cd/A97688_16/generic.903/bp/java.htm

Python Miscellaneous

Python Institute (Python Certifications)

https://pythoninstitute.org/

Python String Formatters

https://pyformat.info/