

# *Artificial Intelligence Programming*

## *Intro to Python*

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## 2-2: What is Python?

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- Python is:
  - High-level
  - Object-oriented
  - Free, open-source
  - Dynamically typed
  - Has a large collection of utility libraries
  - garbage-collected
  - Mixable - works nicely as a “glue” language
  - Easy to learn/use

## 2-3: Some uses of Python

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- Things that Python is good at:
  - System utilities
    - Python has hooks into standard OS-level services, such as files, processes, pipes, etc.
  - GUIs
    - Python has interfaces to Tk, Qt, and WxPython
  - Embedded integration
    - Python has hooks that allow it to call/be called by C and C++ code, and also COM interfaces.
  - Rapid Interactive Development
    - Like Lisp, Python makes it easy to quickly put together a working program.
  - Scripting
    - Python has utilities for CGI, Database access, HTTP, Sockets, FTP, POP/SMTP, XML parsing, etc.