Cython

The benefits of C/++ without writing C/++



What is Cython?

- A superset of Python
- ♦A Python-to-C/++ translator*

Cython Basics

- ♦.py, .pyx, .pxd, and .pyd
- def, cdef, and cpdef
- Python-style type declarations

 - ♦baz: cy.double = 0.1337

Why Use Cython?

- Gotta go fast (native C speed)
- Wrapping external C/++ code

Why Not ctypes?

- Messy with large codebases

When Not to Use Cython

- Code is not performance critical
- Code has not been profiled/benchmarked

Code Examples

Summary

Why use C when you can use Cython?

Further Reading

- https://makecode.run/talks/cython
 - Collection of links to helpful resources
 - Slideshow and code example downloads

Questions?

♦ Join us at The Barn Light downtown!