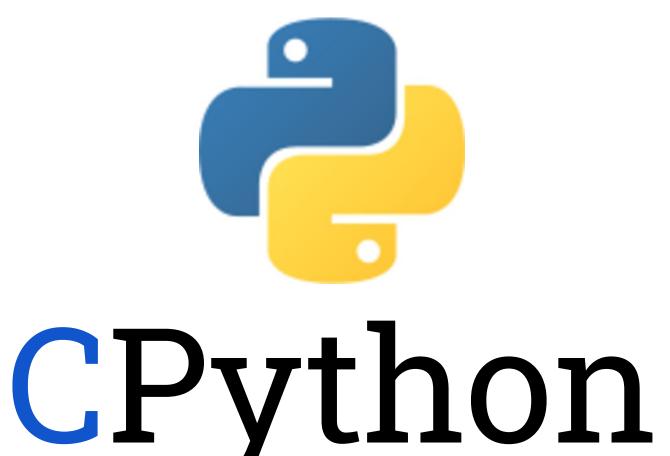
Embedding & Calling Python

with 0 Serialization and ε Memory

Miki Tebeka



CEO, CTO, UFO ... **353solutions**



Glue Language

Duct tape is like the force. It has a light side, and a dark side, and it holds the universe together.

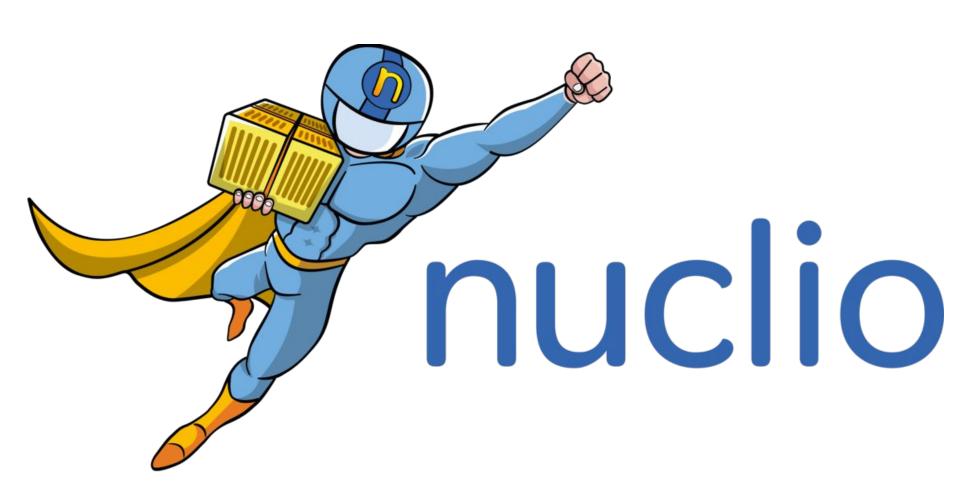
Carl Zwanzig

Extending and Embedding the Python Interpreter

https://docs.python.org/3/extending/index.html

UPON A TIME





Q: What's the difference between a dead project and a dead cow?

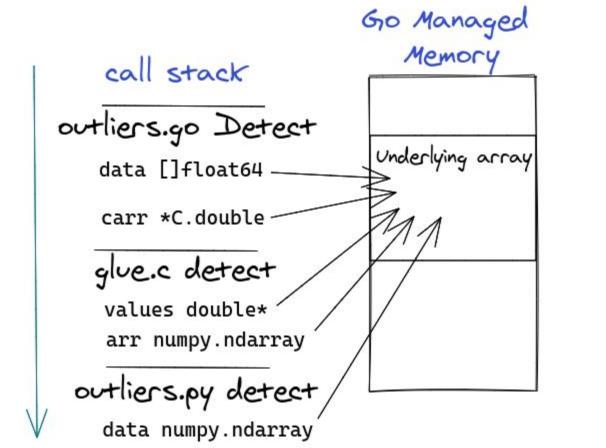
A: You can still milk a dead project!

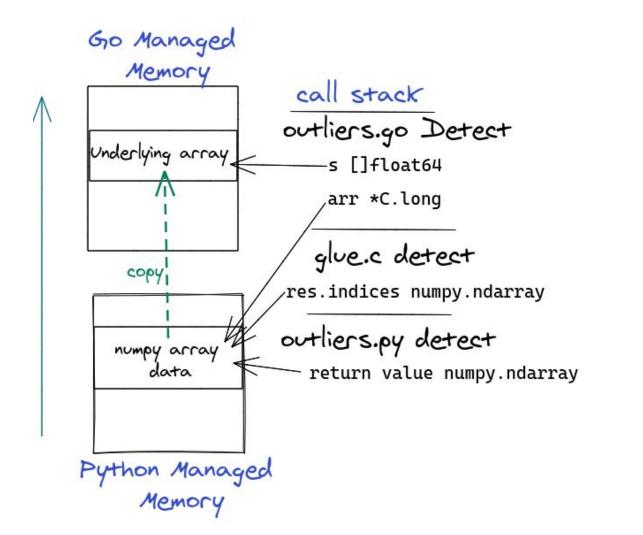


Simple

Assumptions

- Go's float64 & numpy's float have the same representation in memory
- numpy arrays are contiguous in memory





Python/C API Reference Manual

https://www.ardanlabs.com/blog/2020/09/using-python-memory.html

Outliers

What's Left?

- Goroutine/thread safety (GIL)
- Better error recovery
- Memory leaks?
- ...

lnank You!