ObjXp

Object Express

What is ObjXp?

Unified Object Exchange Framework

- Within a process
- Between processes
- Within a system
- Between systems
- Between different programming languages: C/C++ and Python
- (Java support with Protocol Buffers will be coming ...)

All in the same Framework

Components

Obex Tree

(Object Express Tree)

YAIL

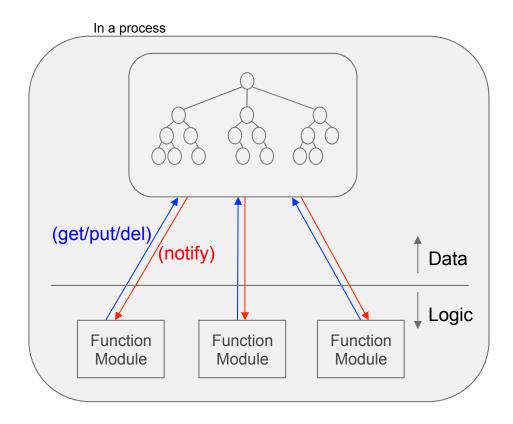
(Yet Another IPC/IO Library)

^{*} See separate documentation for each.

REST-like

- Resource can be accessed by object location and path
- REST style API
 - putObject
 - o getObject
 - o delObject
 - + few more API functions to get notification

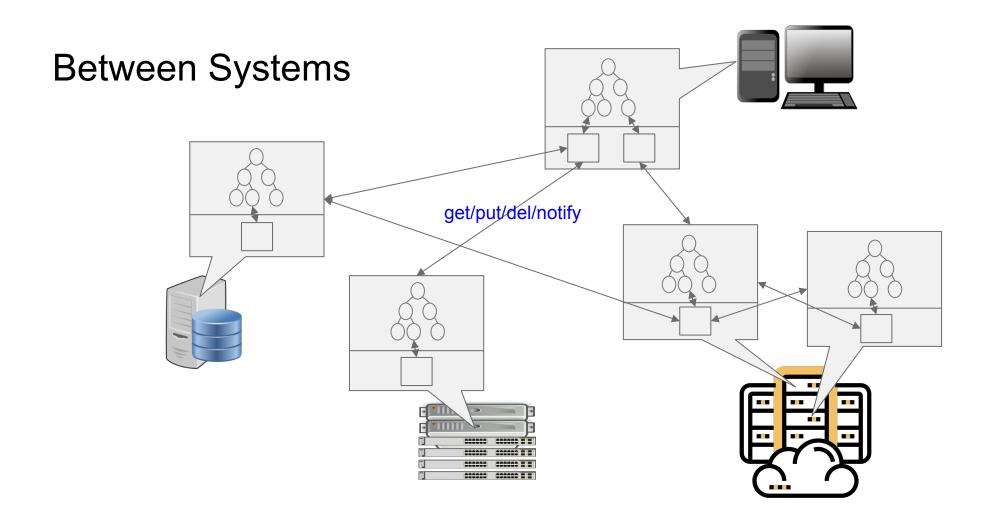
Within a Process



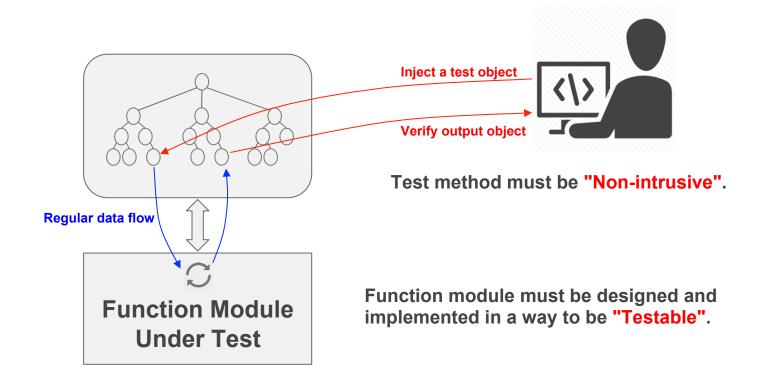
Easy Development,
Debugging and
Testing by

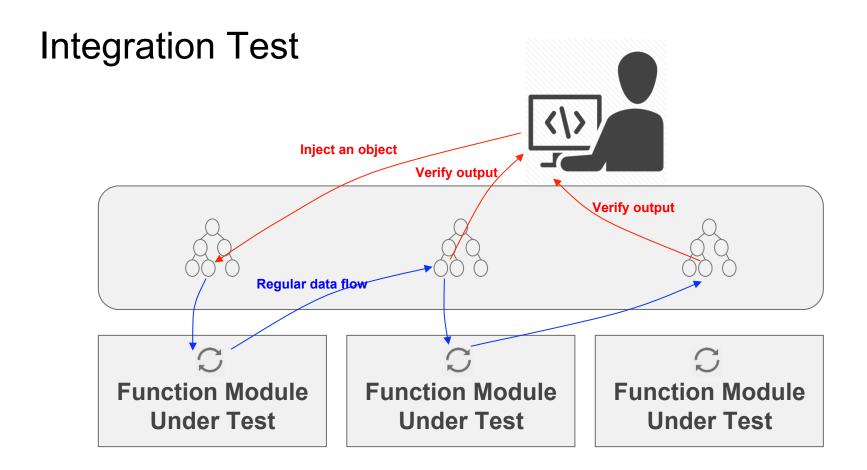
- Separating Data and Logic
- Common API for internal and external data access

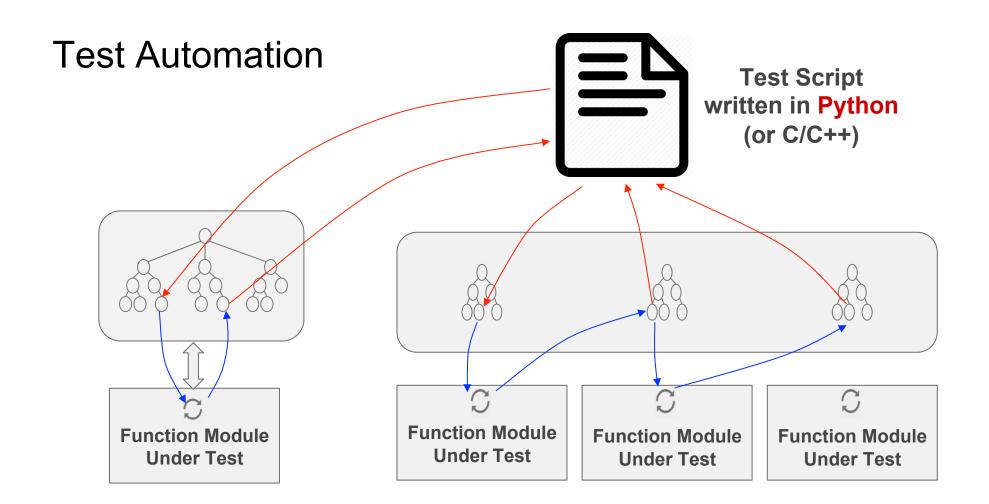
Between Processes In a system Get/put/del/notify Function Module Function Module Module Function Module Module Function Module Module Function Module Module



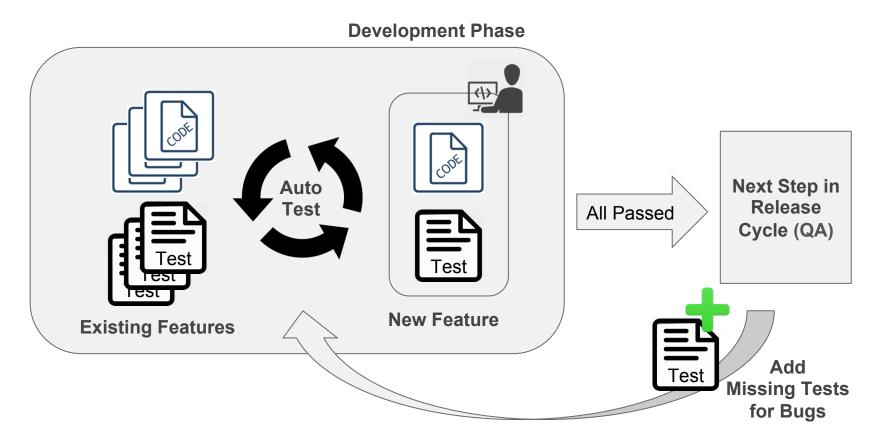
Unit Test







Regression Test



Goal

- Improve Software Development Process
 - Data-driven modular architecture
 - Unified IPC mechanism
 - Better inside visibility
 - Corner case simulation via versatile data manipulation
- Consolidate Test Infrastructure
 - Testable software design in non-intrusive way
 - C/C++ and Python integration
 - Test automation
 - Regression test

