

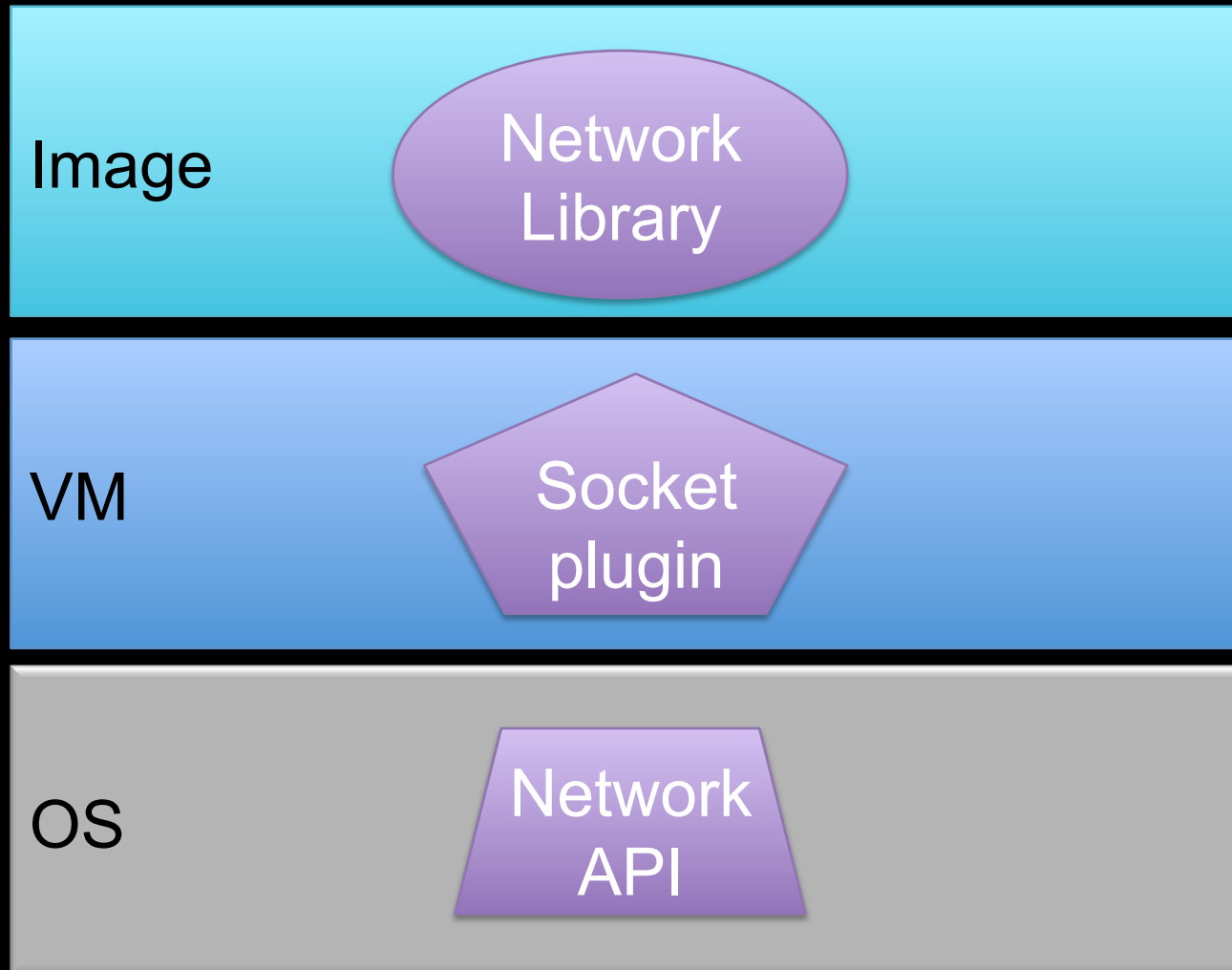


OCEAN

Towards a Portable Networking Library

N. Bouraqadi and L. Fabresse
ESUG 13 sept 2010

Pharo/Squeak Networking Support



VM

TCP+
UDP+...

IPv4
+IPv6

Socket
plugin

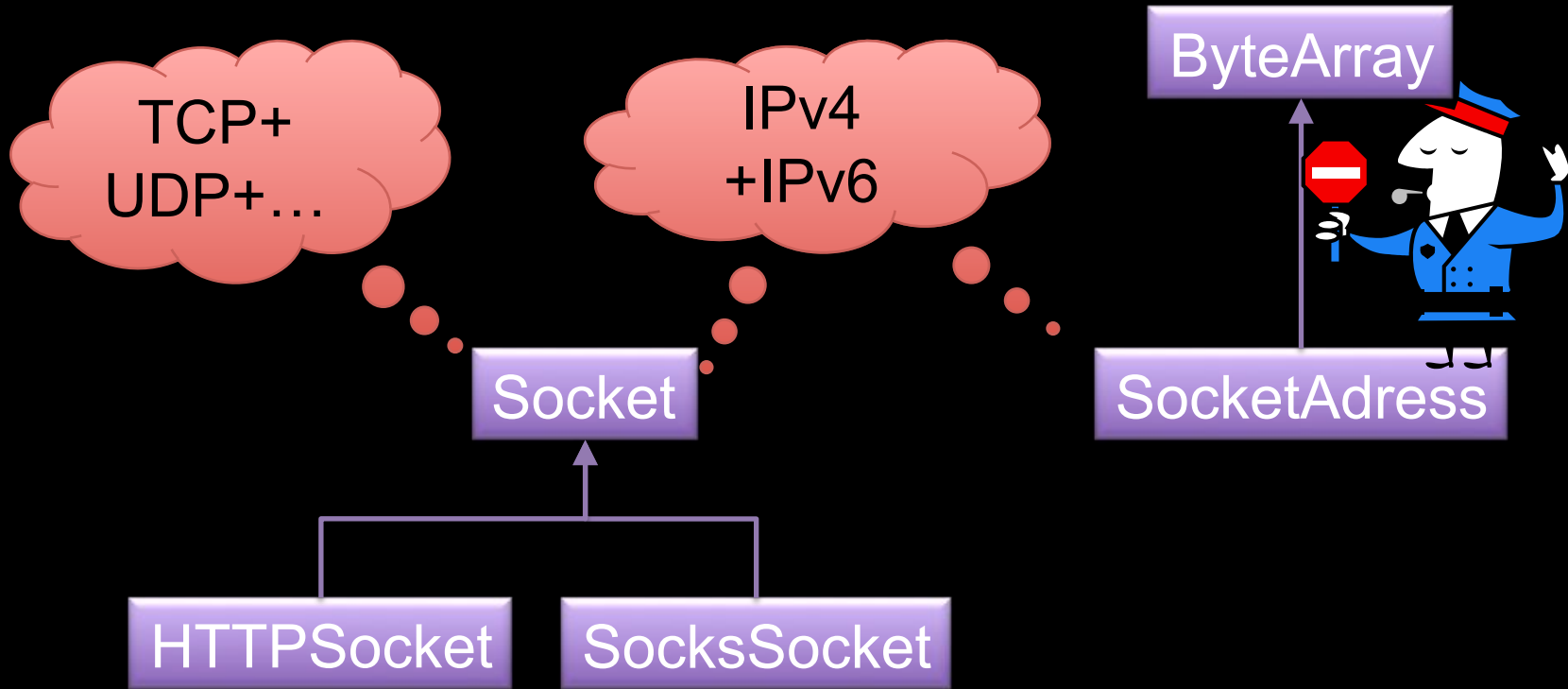
VM

TCP+
UDP-

4
6

**Hard
to port**

Image



Image

TCP+
UDP+...

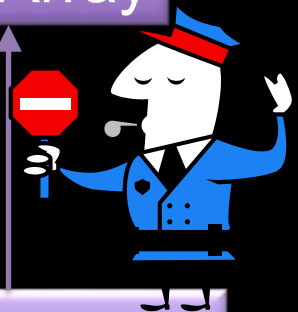
IPv4

Dirty!

HTTPSocket

ByteArray

SocketAddress



Image

Network Kernel Test Coverage



0%

Let's redo it!

Hard
to port

Dirty!

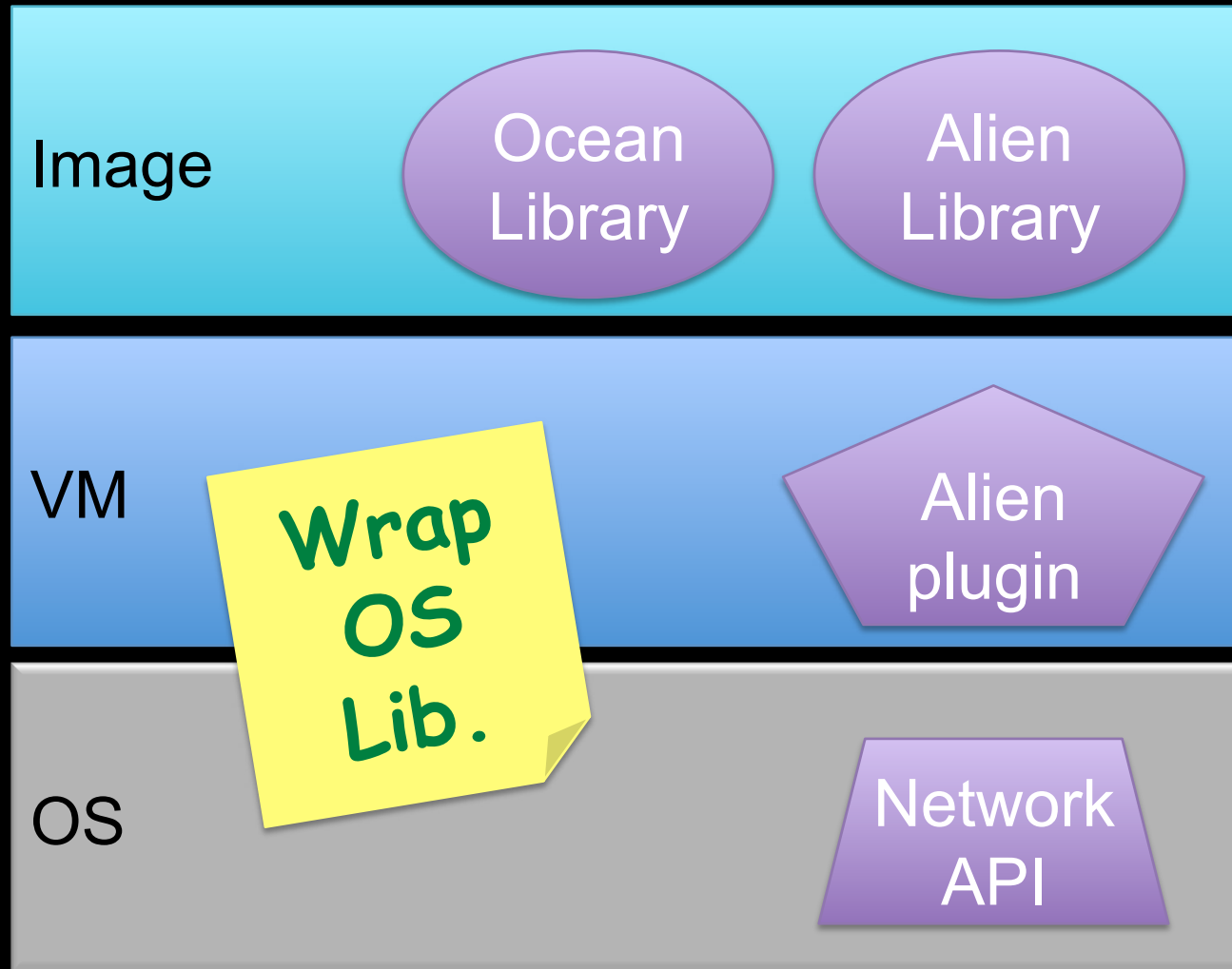
0%
tested

Wrap
OS
Lib.

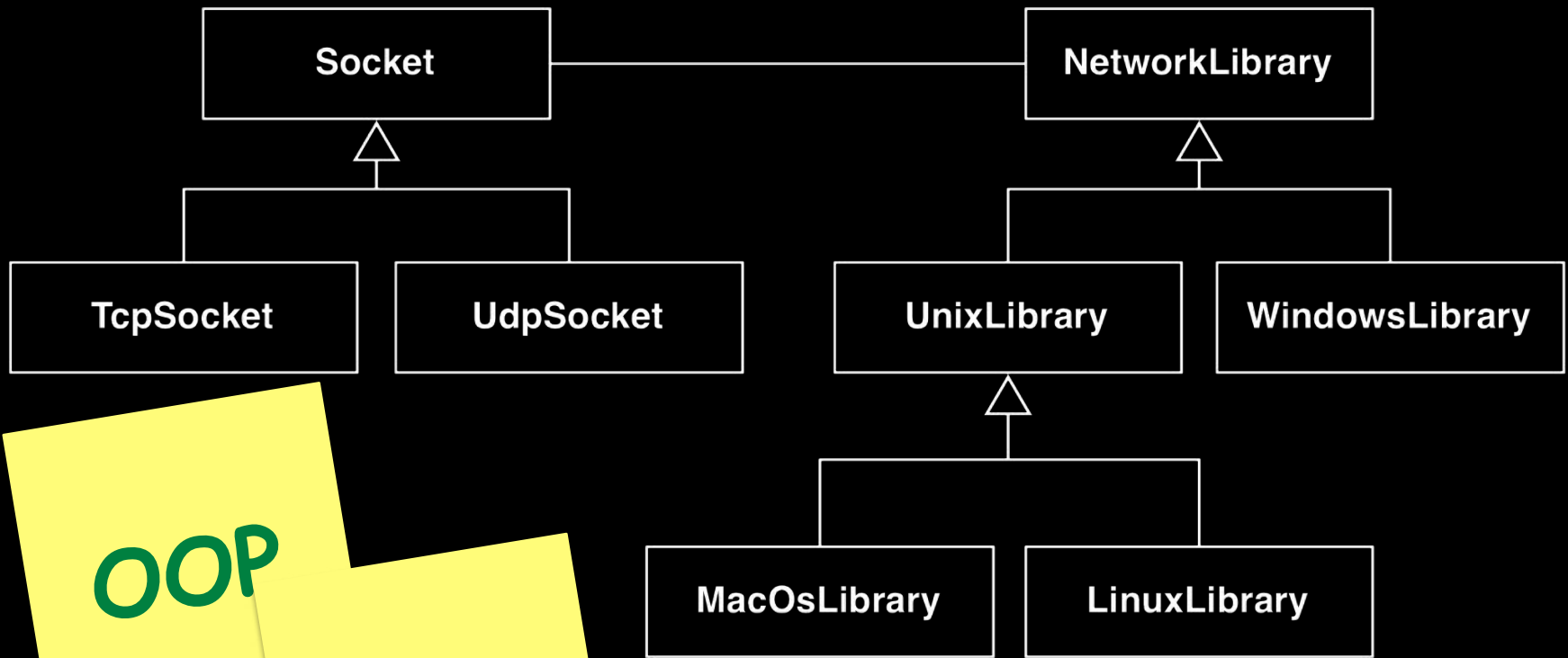
OOP

100%
tested

OCEAN idea



OCEAN Library



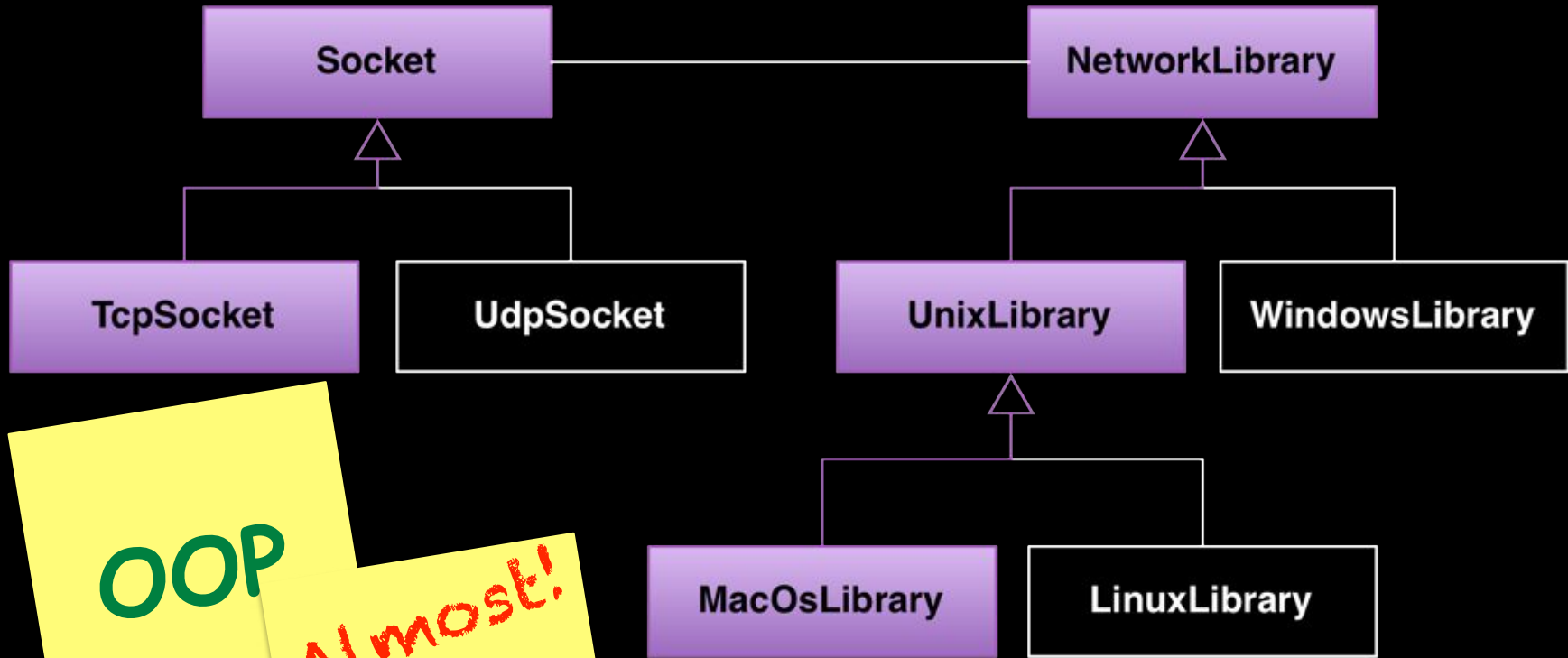
Image

OOP

100%
tested

OCEAN Library

Latest
version

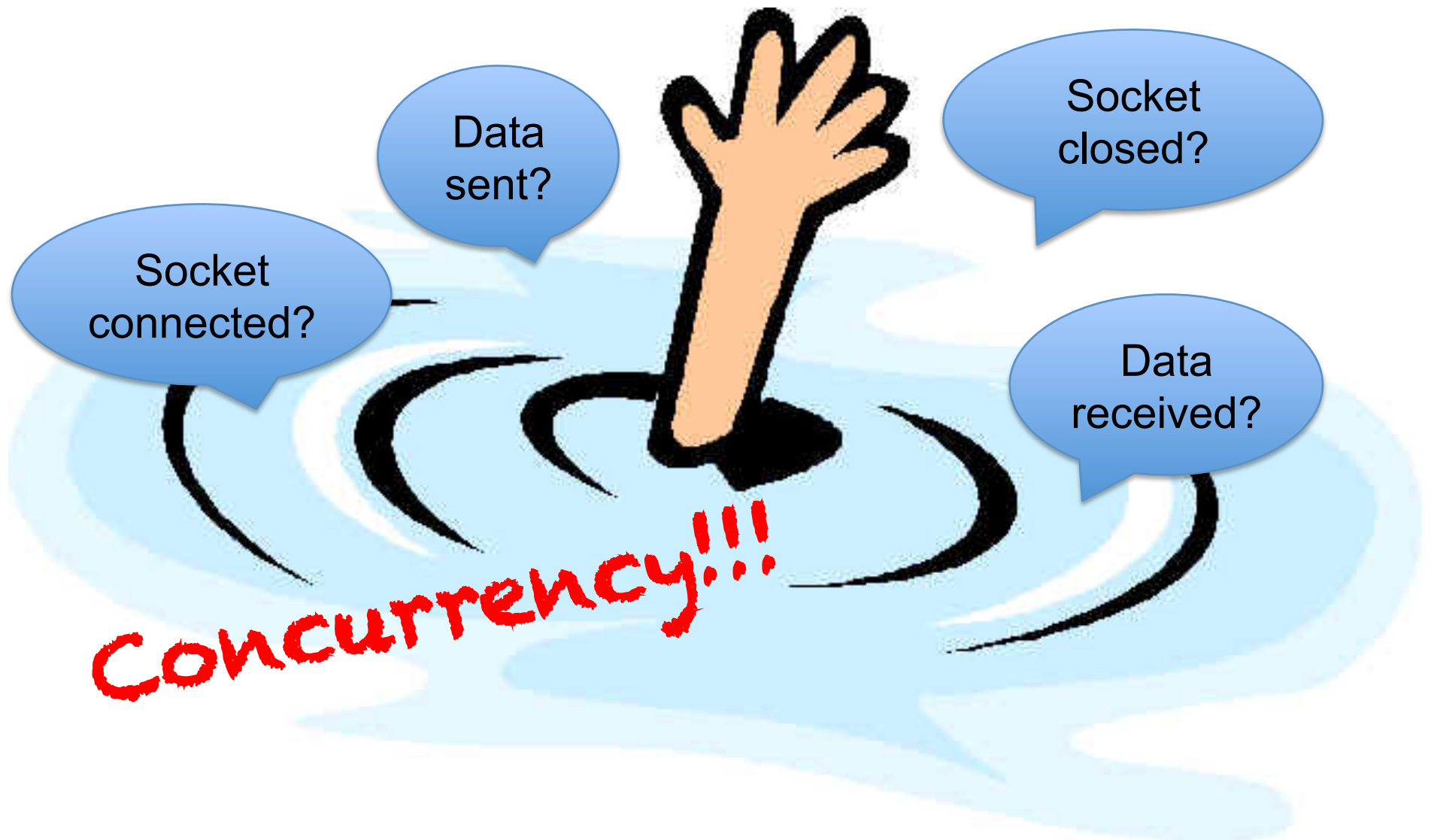


Image

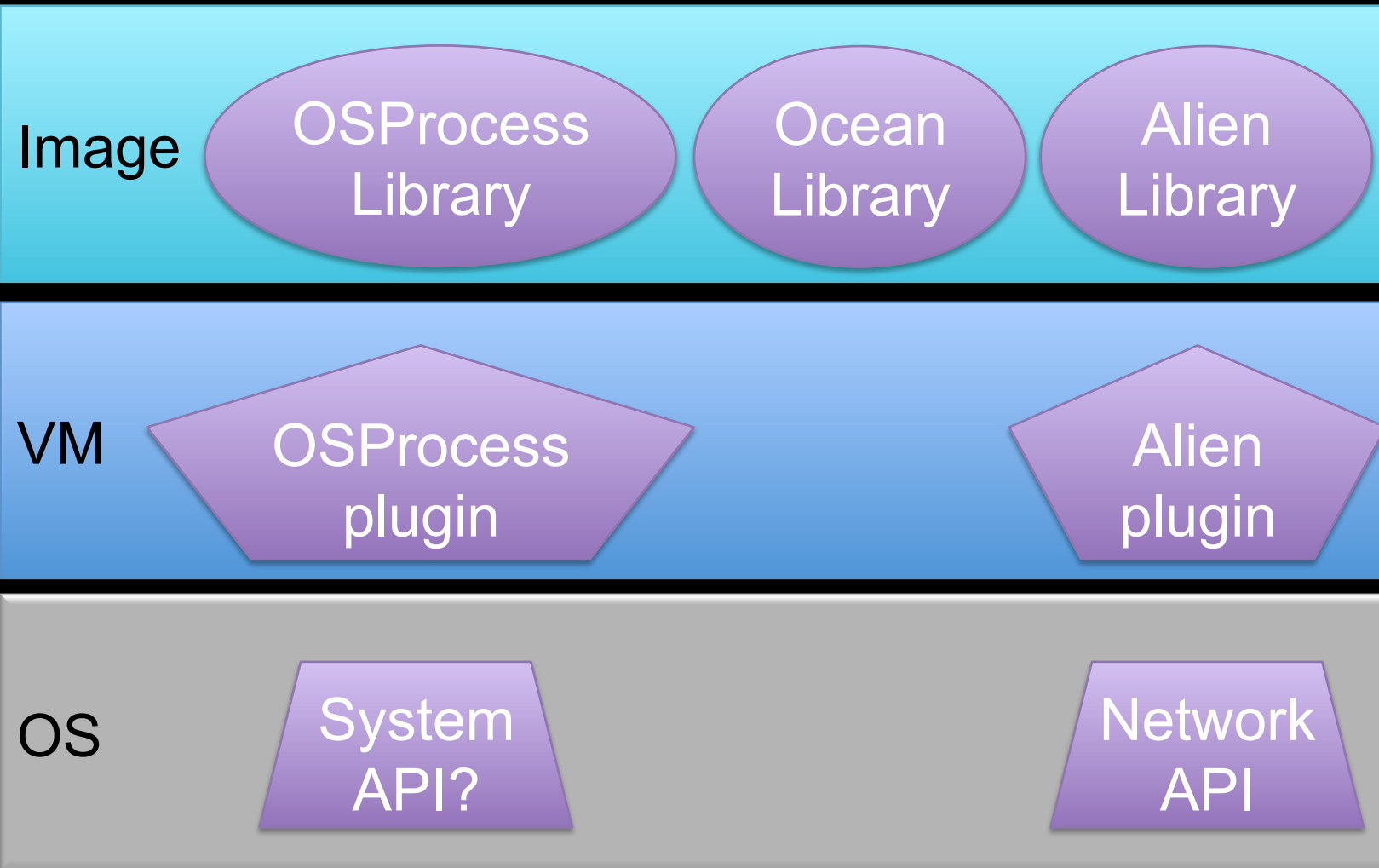
OOP

Almost!
100%
tested

Hard time writing tests!



OSProcess for tests



OCEAN early evaluation



OCEAN

Portable

OOP

100%
tested

OCEAN

Portable

OOP

100%
tested

To do

- Clean up Pharo
- Ocean-based
OO Middleware
- Smaller VM

OCEAN

Portable

OOP

100%
tested

To do

- Clean up Pharo
- Ocean-based
OO Middleware
- Smaller VM

OCEAN

Portable

OOP

100%
tested

To do

- Clean up Pharo
- Ocean-based
OO Middleware
- Smaller VM**