

Pharo 70

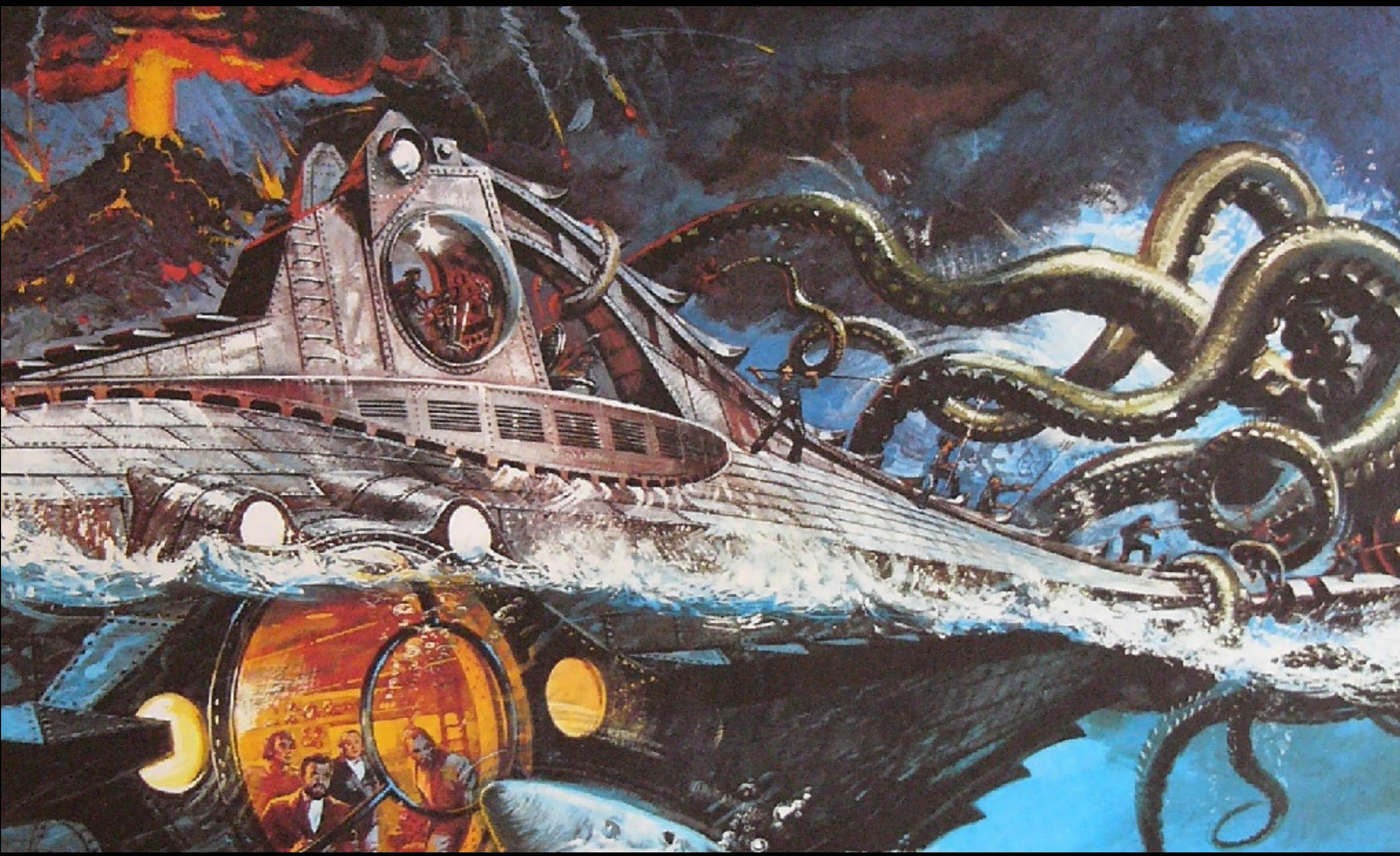
The key challenges

S. Ducasse for the RMoD Team

Points

- Cleaning and stabilising
- 64 bits windows/large images
- Iceberg in production
- Pharo managed on github
- Bootstrap in production
- Retirement of Nautilus -> Calypso + Commander
- New class definition
- Cargo

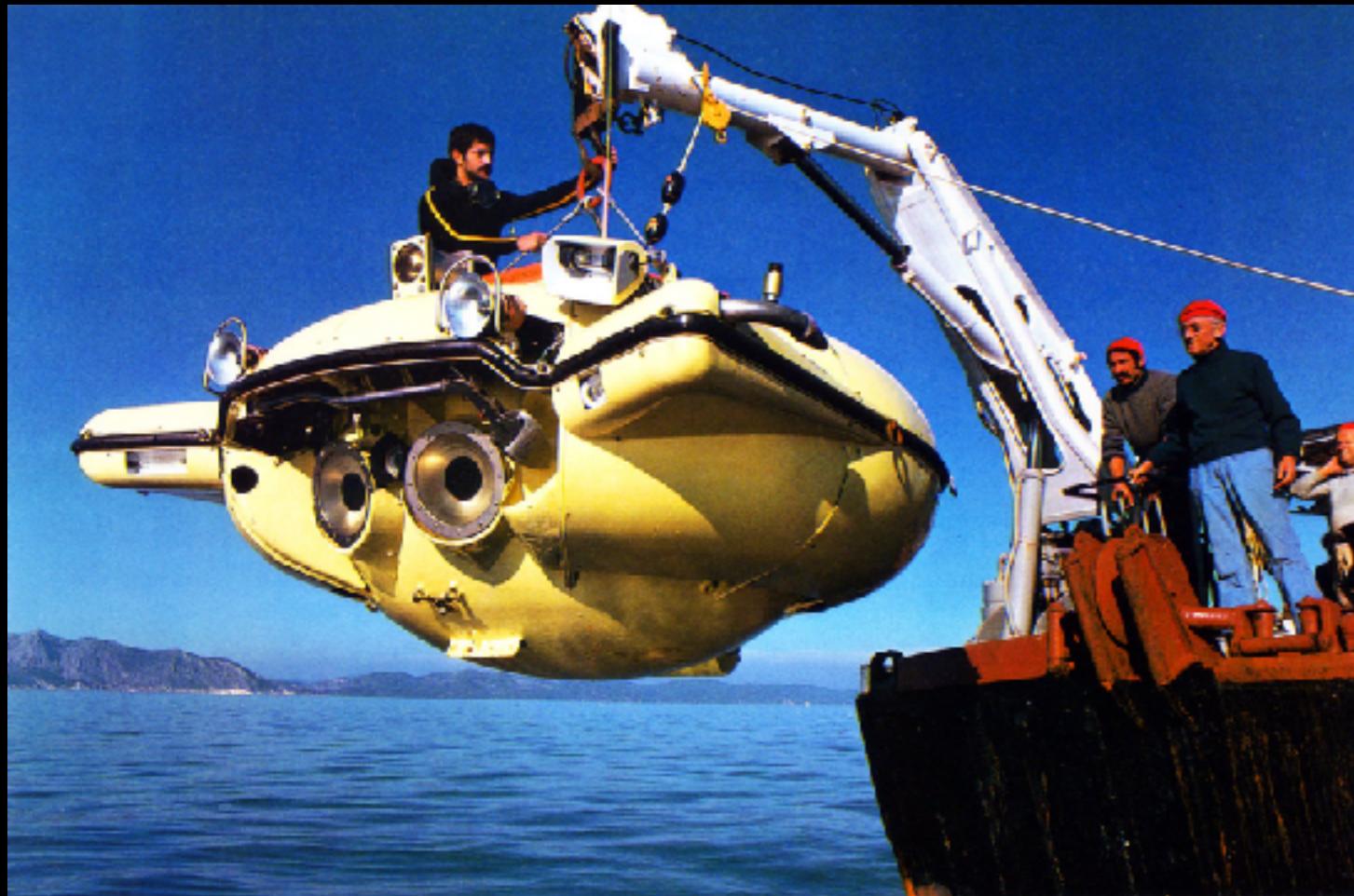
Nautilus



Calypso



Calypso & its submarines



Calypso

- Basis for Remote Browsing
- Fully extensible
- No ifs
- Developed by D. Kudriashov
- Thanks alain for giving us the name

Calypso

- multiple panes
- multiple method definitions
- incomplete method definitions
- scoping...

AbstractConfiguration>>propertyAt:ifAbsent:

SimpleConfiguration ●

BrainstormConfiguration
Errors
Junk ●
OldPillar ●
Test ●

Simple Filter...

● Packages ○ Projects | ● Flat ○ Hier. | ● Inst. side ○ Class side | ● Methods ○ Vars | Class refs. Implementors Senders

? Comment × C *AbstractConfigur × V propertyAt:ifAbse ×

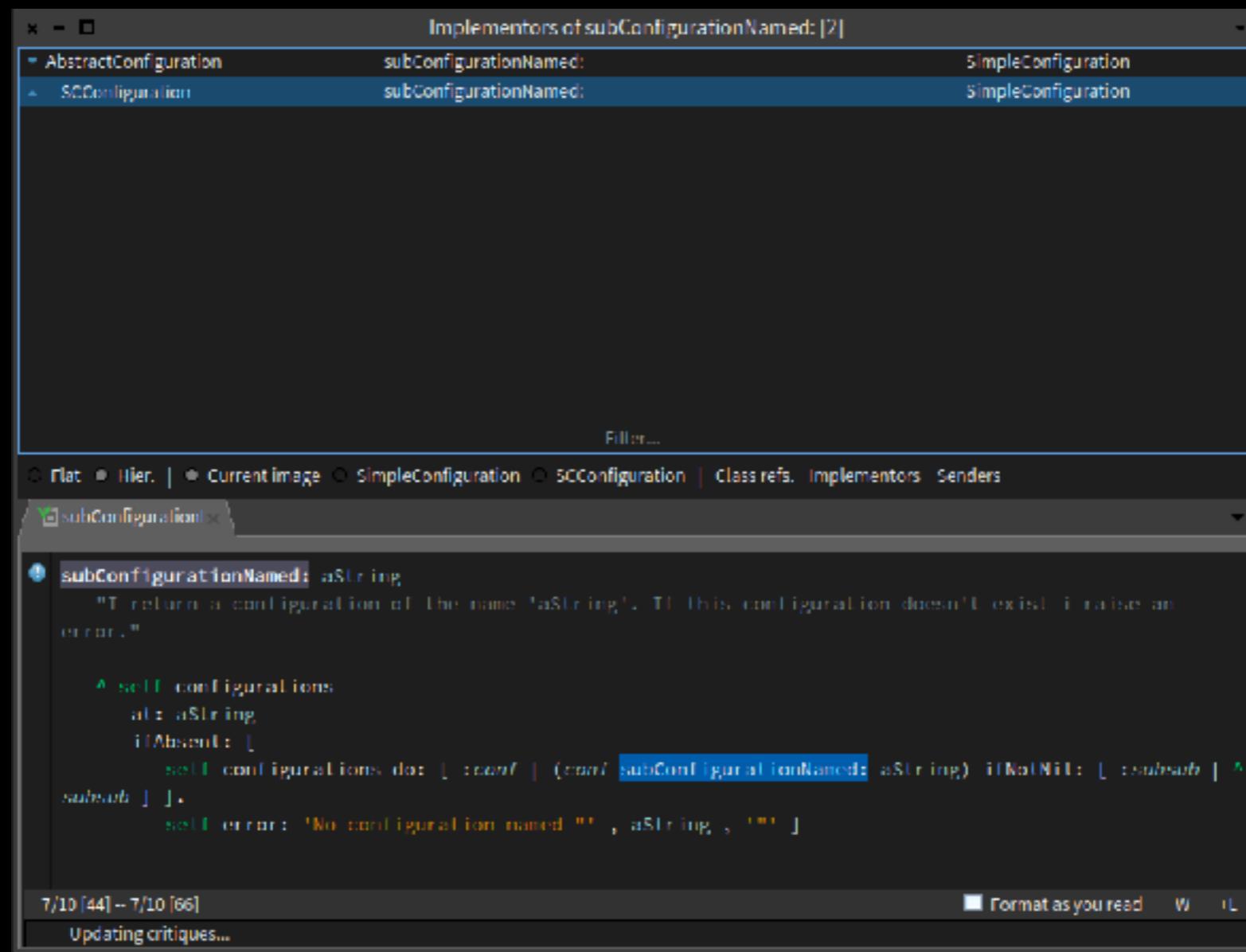
propertyAt: aKey ifAbsent: aBlock
"Answer the value of the property ==aKey==, potentially looking in parents, or the result of ==aBlock== if the property doesn't exist."

properties
at: aKey asSymbol
ifAbsent: [self hasParent
ifTrue: [self parent propertyAt: aKey ifAbsent: aBlock]
iffFalse: aBlock]

1/9 [1] Format as you read W +L

Updating critiques...

New Message Browser



Iceberg



- Paid by the consortium
- libgit2

Iceberg repositories

Name	Current branch	Loaded version	Status
iceberg	dev-0.4	fefadb2 (9:40:15 am)	Up to date
libgit2-pharo-bindings	development	2a86f76 (19 April 2017)	Up to date
themes	master	1cb8ba9 (8 May 2017)	Up to date
* pharo	master	e9d735b (11 May 2017)	Uncommitted changes
TestToDelete	master	03bd70e (11 May 2017)	1 not published

New repository Clone repository Add local repository Fetch all

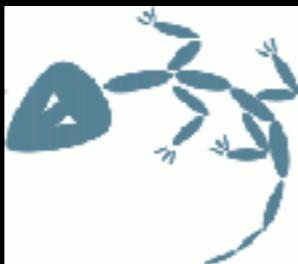
General Packages Remotes Branches

Name	Value
Origin	git@github.com:pharo-vcs/iceberg.git
Remote User	
Remote host	github.com
Repo Owner	pharo-vcs
Location	/Users/esteban/Dev/Pharo/xx/pharo-local/iceberg/pharo-vcs/iceberg
Pulling from	origin
Pushing to	origin

Iceberg

- Potentially for

- Fossil



- Mercurial





Pharo on github



github
SOCIAL CODING

About classes

Class definition explosion

- subclass:, variableSubclass:, variableByte.. variableWord, weak:
- uses:
- layout:
- tag:
- immediate:, ephemeron
- category:
- package:
- slot:
- instanceVariableNames:, classVariableNames:

Need a fluid API

- Only specify what is used!
- No empty classVariableNames: “ ”
- Handling combinatorial explosion

```
Class <<< #Box  
vars: { #width . #height };  
package: #MyPackage.
```

Possible Designs

```
Class {  
    superclass: #MySuperclass;  
    uses: #MyTrait;  
    vars: { #a. #b };  
    classVars: { #A. #B };  
    package: #MyPackage;  
    tags: #(Core).  
}
```

```
Class <<< #MyClass  
    superclass: #MySuperclas;  
    uses: #MyTrait;  
    vars: { #a. #b };  
    classVars: { #A. #B };  
    package: #MyPackage;  
    tags: #(Core)
```

Need a class **definition**

- a.k.a. AST
 - traits, slots, kinds....
- Can be manipulated
- Support for Smart Suggestions
- Need to be able to have **undefined** classes
- Important for modules!

Working on a “ClassParser” + Nodes

- Can handle variations, backward compatibles....
- Support for smart suggestion in class definition
- Avoid ‘*subclass:’ matches: str

Opal

- Warnings into real objects
- Another pass on the API

PharoPro

More services around the consortium

- Long Term Support (LTS)
- Platform Support: CentOS, NetBSD, FreeBSD
- Pharo Hotline
- Custom Development

Pharo 70 is exciting

We are excited by the possibilities

You can help, contribute and have fun with us