Pharo 70
The key challenges

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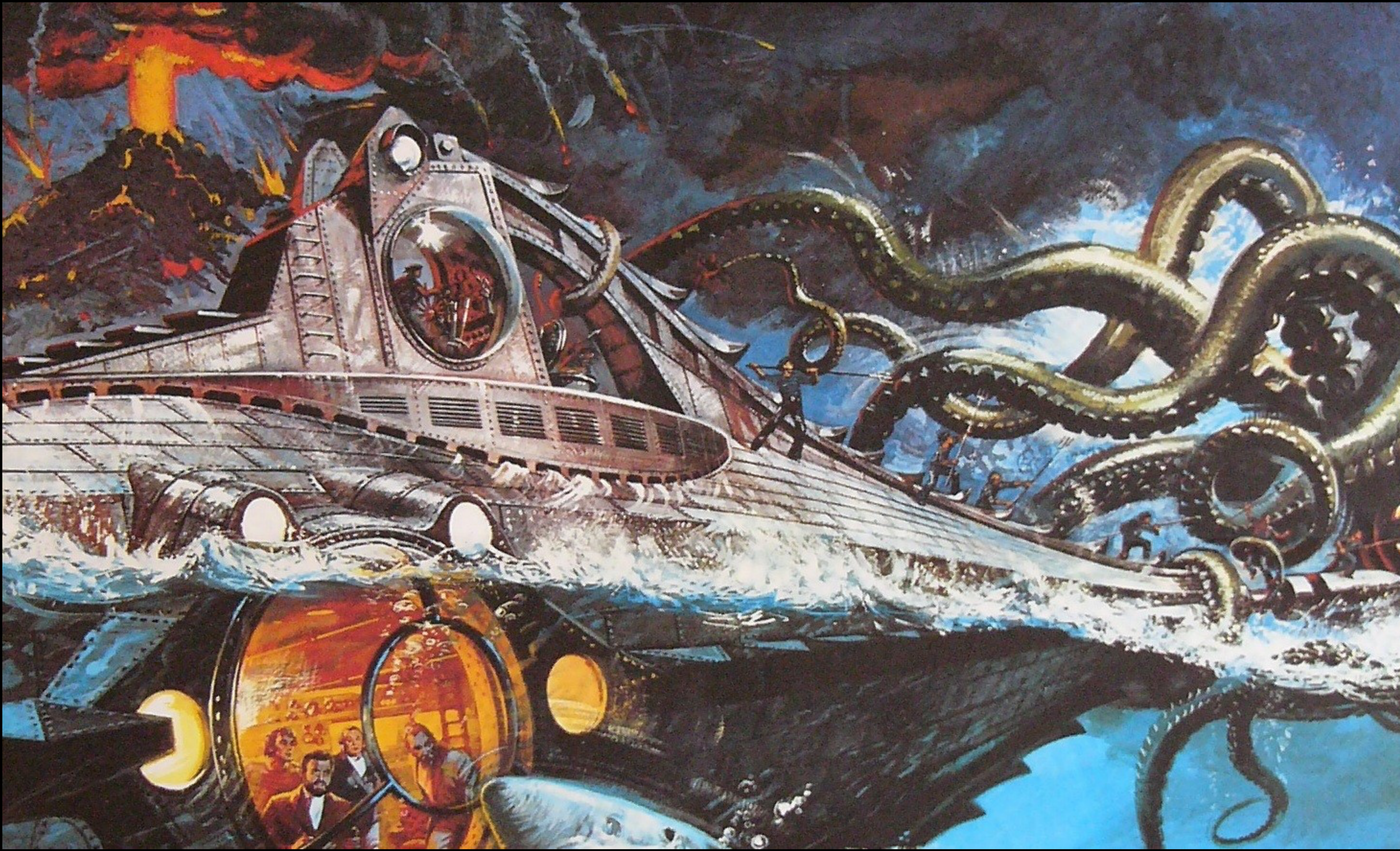
Points

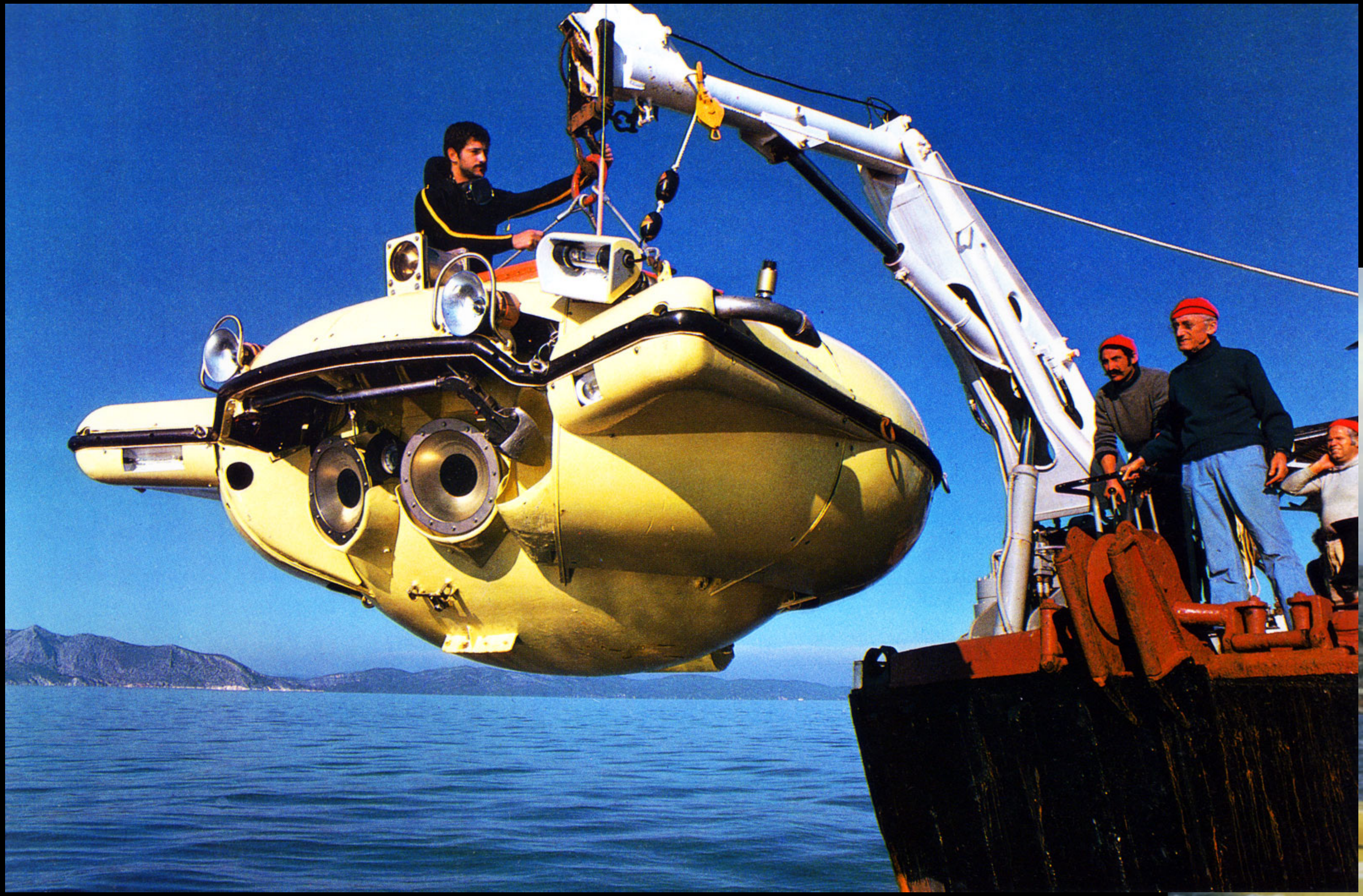
- Cleaning and stabilising
- 64 bits windows/large images
- Iceberg in production
- Pharo managed on github
- Bootstrap in production
- Retirement of Nautilus -> Calypso + Commander
- New class definition
- Cargo

Nautilus



Calypso

Calypso & its submarines

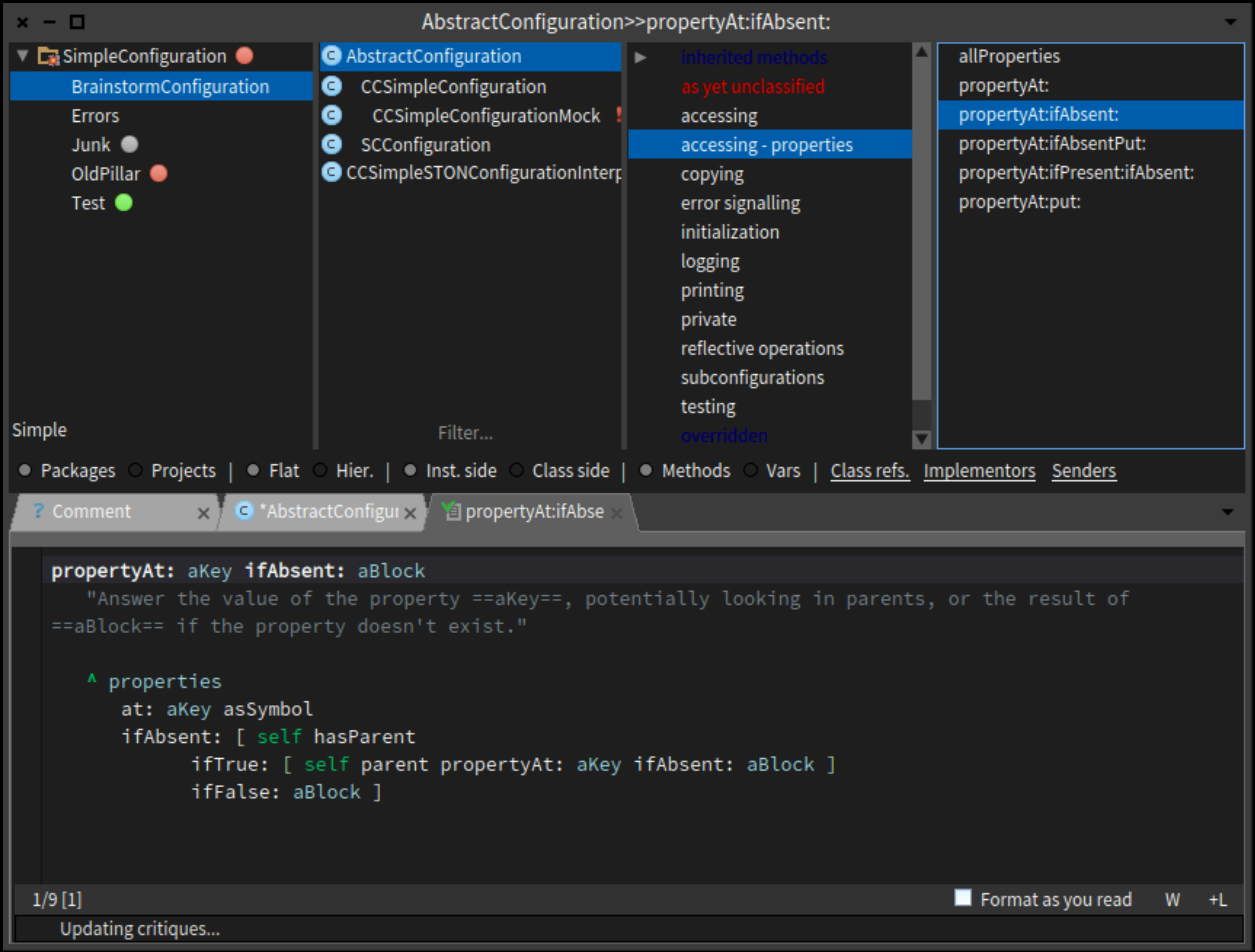


Calypso

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

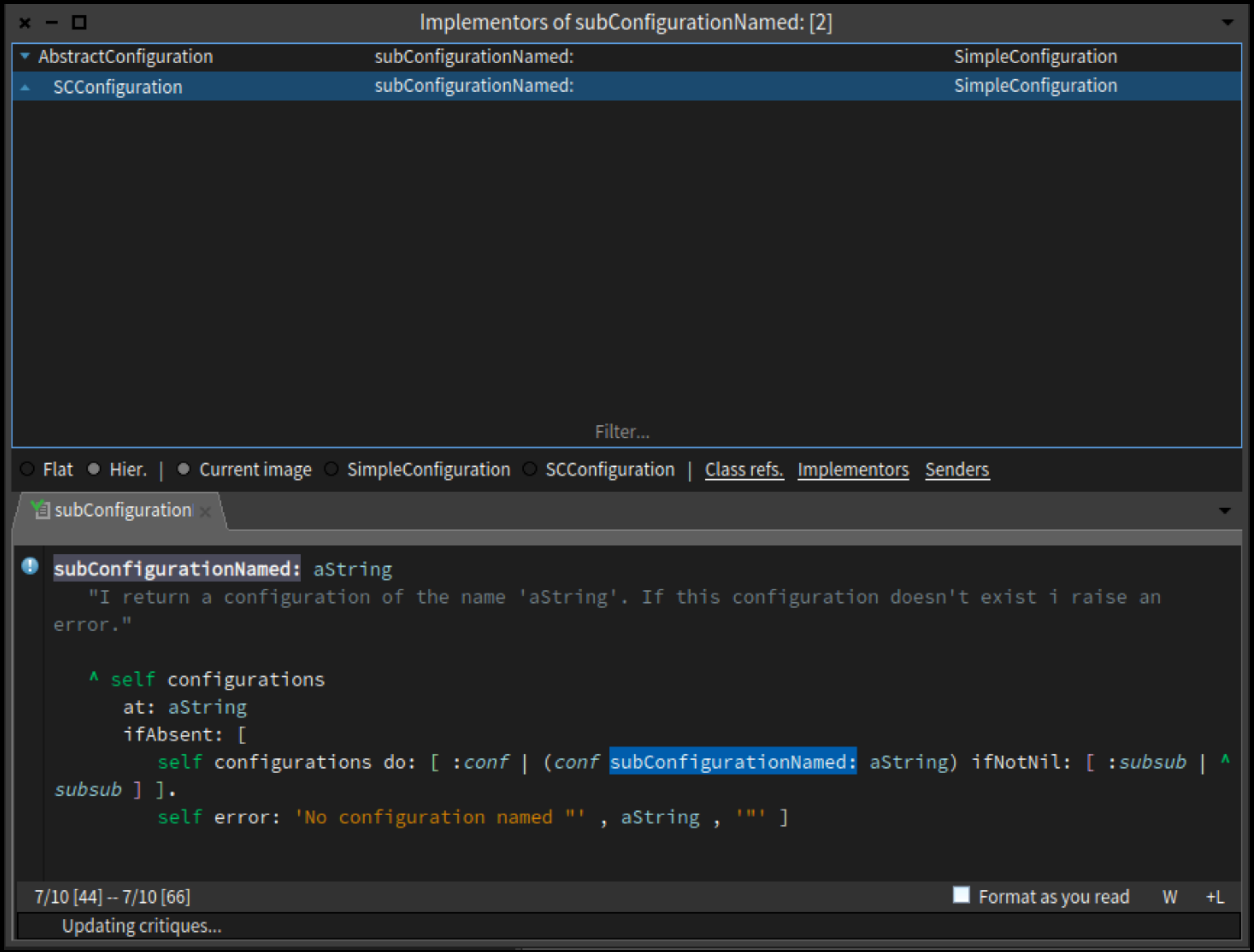
Calypso

- multiple panes
- multiple method definitions
- incomplete method definitions
- scoping…



```
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 ]
            ifFalse: aBlock ]
```

New Message Browser


Implementors of subConfigurationNamed: [2]

AbstractConfiguration	subConfigurationNamed:	SimpleConfiguration
SCConfiguration	subConfigurationNamed:	SimpleConfiguration

Filter...
○ Flat ● Hier. | ● Current image ○ SimpleConfiguration ○ SCConfiguration | Class refs. Implementors Senders
subConfiguration

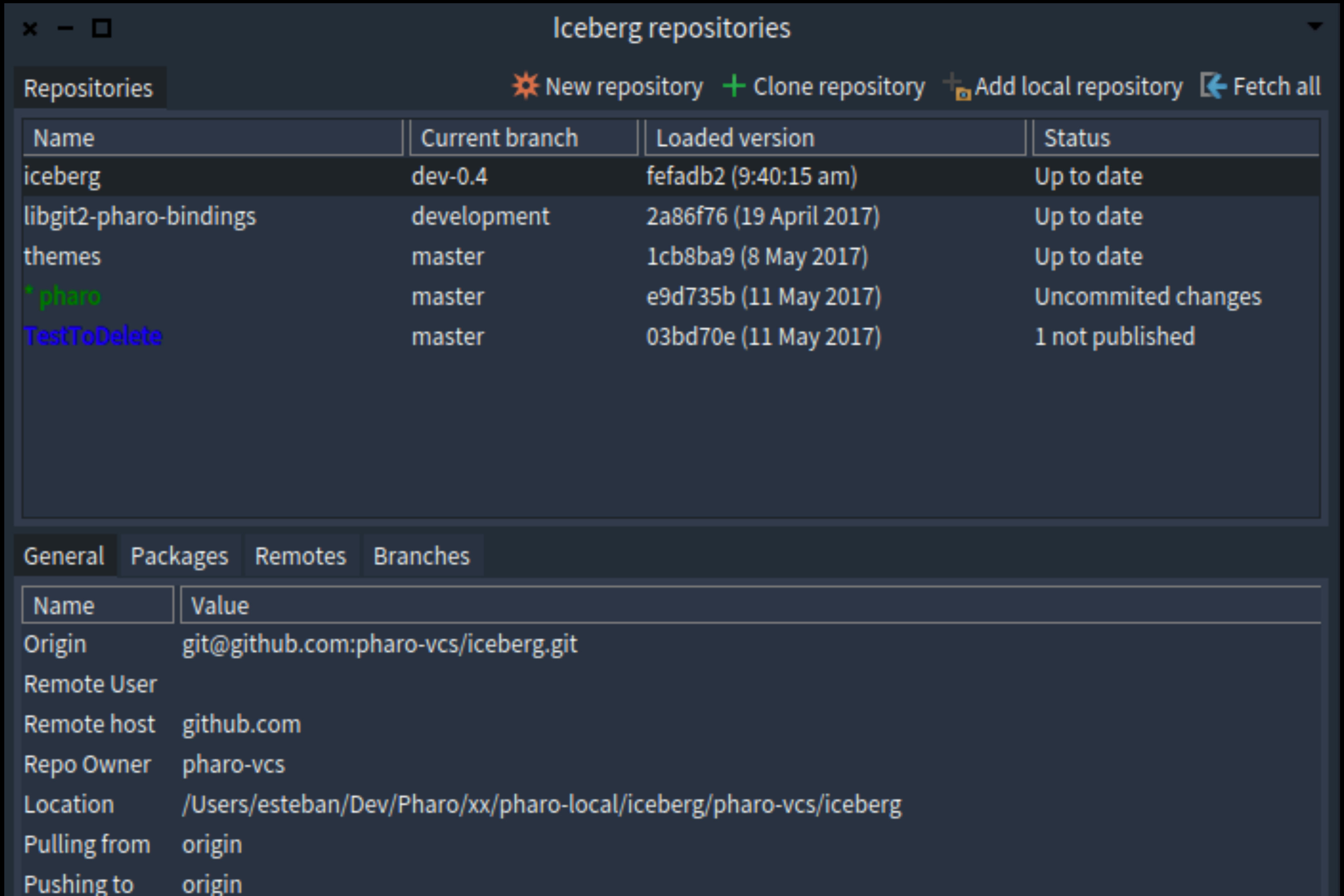
```
subConfigurationNamed: aString
   "I return a configuration of the name 'aString'. If this configuration doesn't exist i raise an
error."

   ^ self configurations
      at: aString
      ifAbsent: [
         self configurations do: [ :conf | (conf subConfigurationNamed: aString) ifNotNil: [ :subsub | ^
subsub ] ].
         self error: 'No configuration named "' , aString , '"' ]
```

7/10 [44] -- 7/10 [66]

Updating critiques...

Iceberg

- Paid by the consortium
- libgit2



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)	Uncommited changes
TestToDelete	master	03bd70e (11 May 2017)	1 not published

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

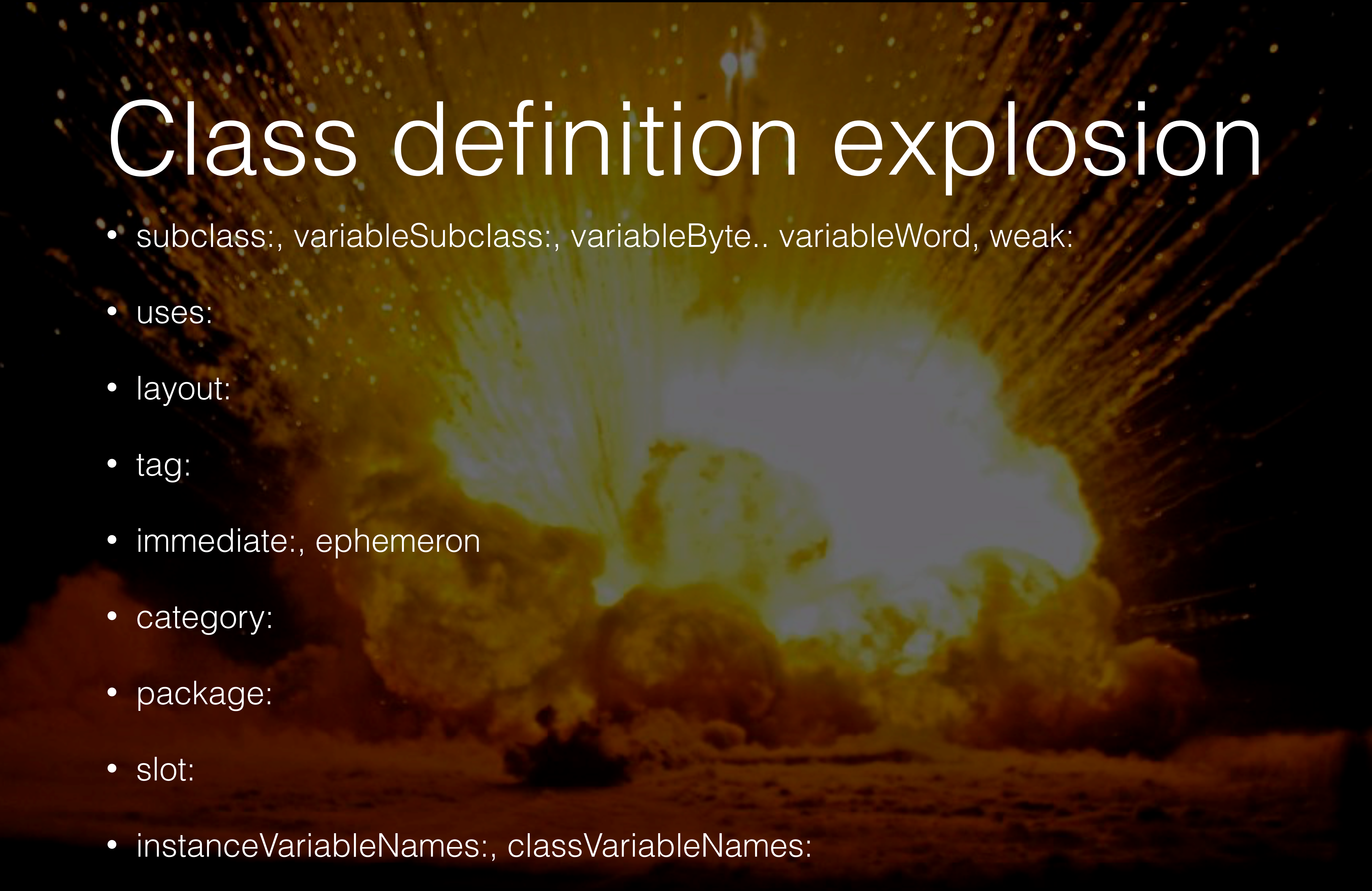
Bitbucket

github
SOCIAL CODING

GitLab

Pharo on github

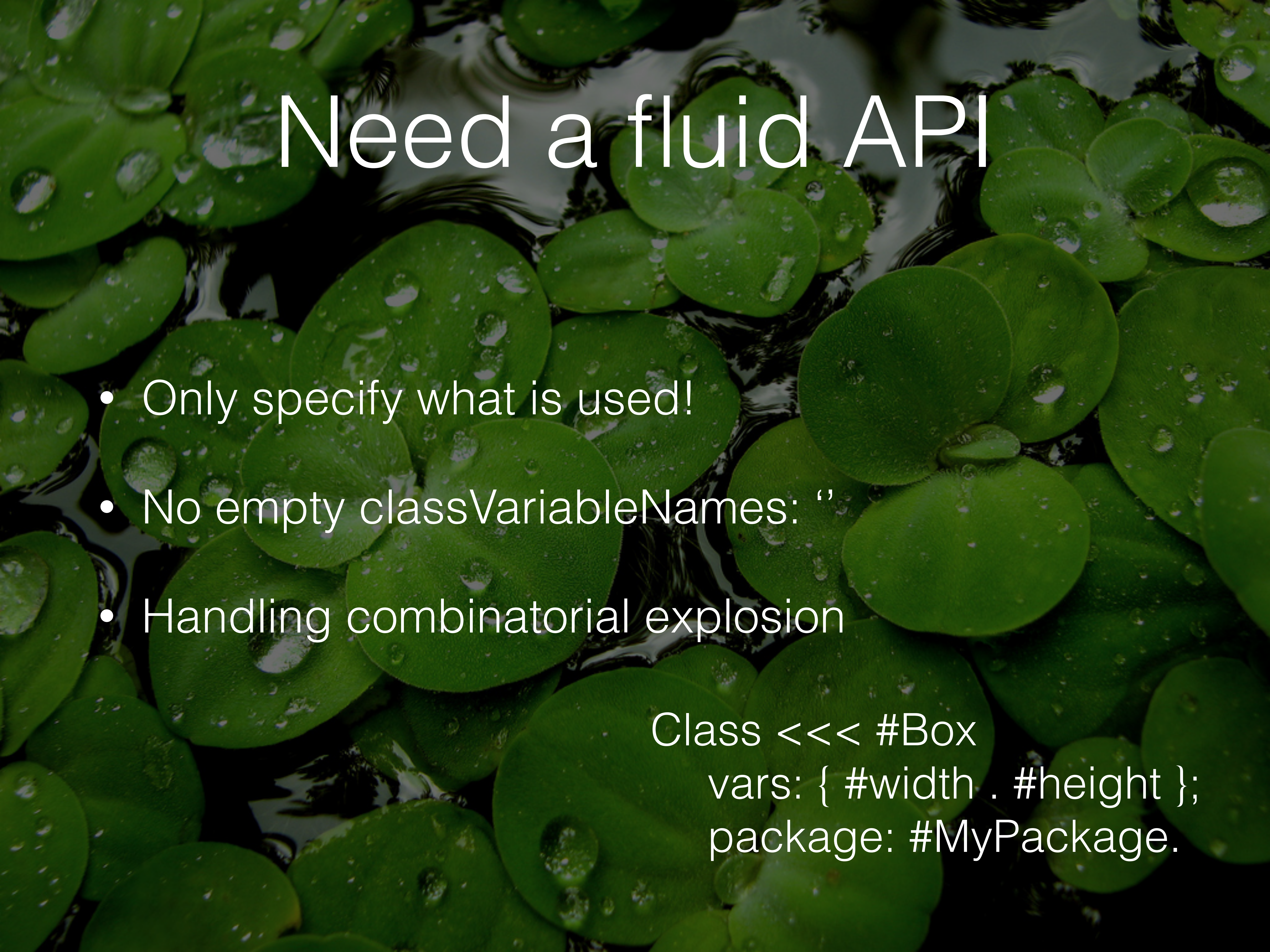
About classes



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.
```

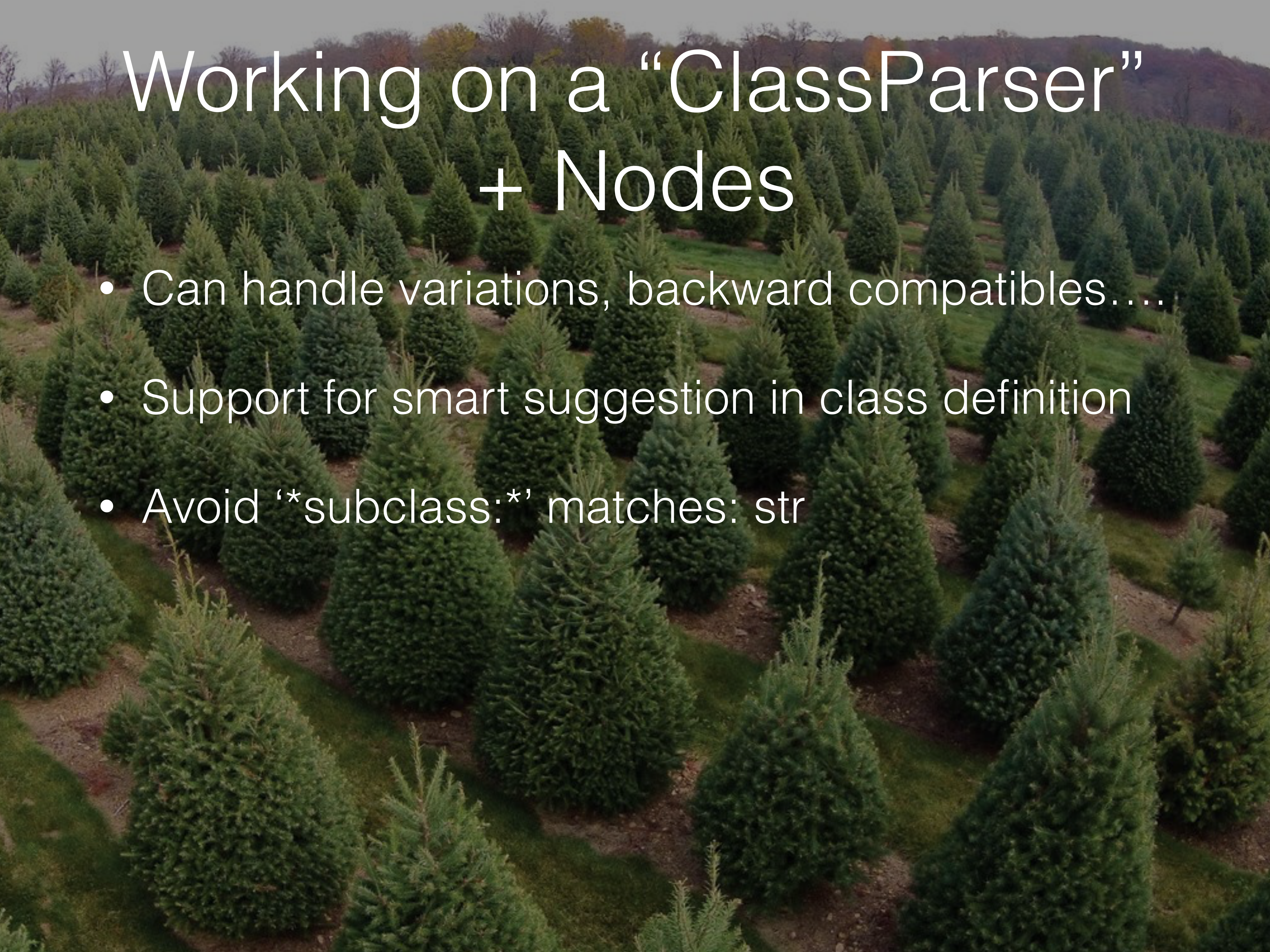
Possible Designs

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

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

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