

# Pharo Status

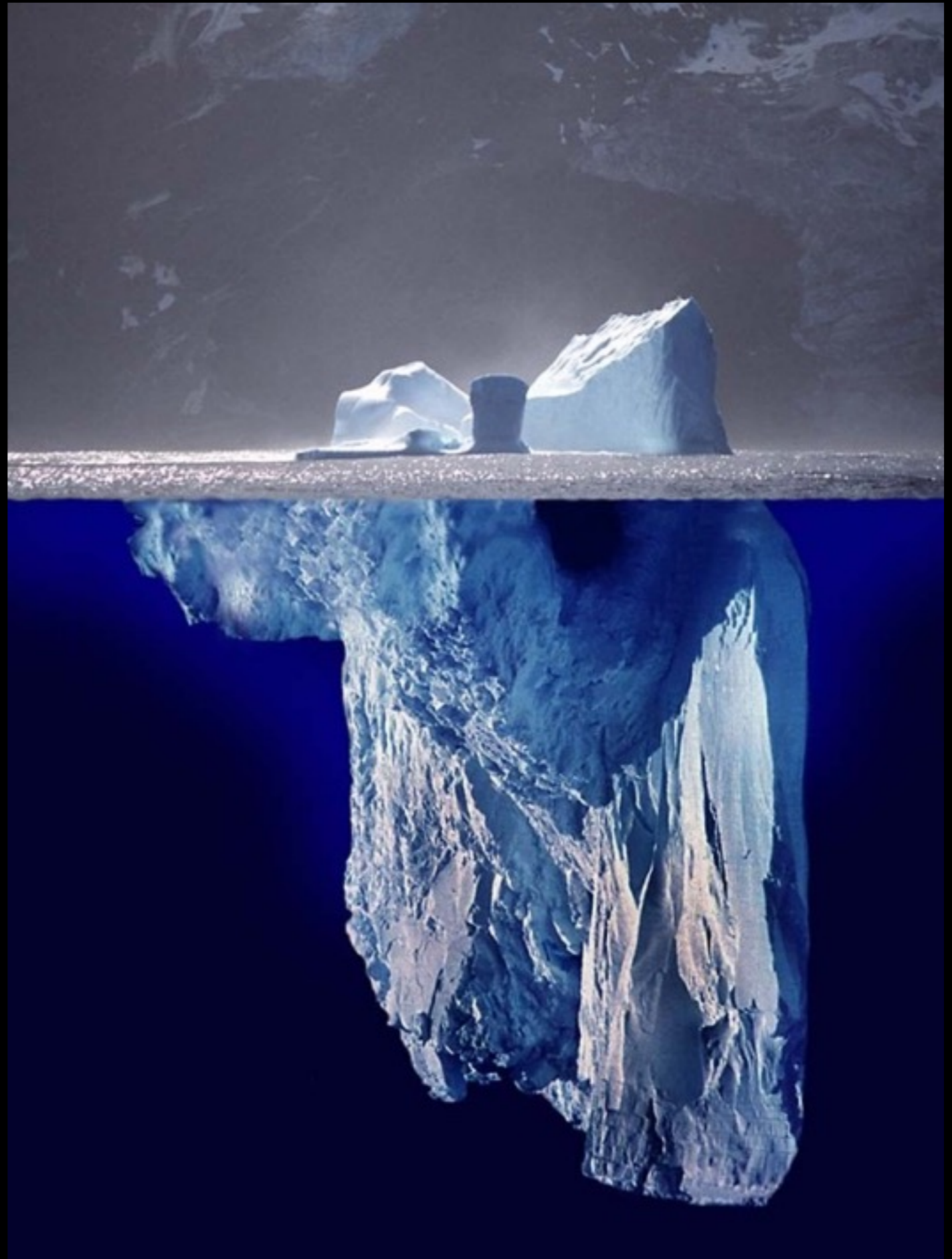
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*Inria*  
INVENTEURS DU MONDE NUMÉRIQUE

# Iceberg

- ✦ A lot of Changes!
- ✦ Not everything visible



# Pharo4

- ✦ To be released Spring 2015
- ✦ Already 467 updates
- ✦ >1200 Issues closed
- ✦ Very stable

# Small things...

- ✦ Improved Refactorings
- ✦ 6MB Deployment Image
- ✦ ifTrue: on non-Booleans
- ✦ Browser and Tool cleanups
- ✦ Context Cleanup (MethodContext/ContextPart merge)

The screenshot displays the Pharo IDE environment with the following components:

- Workspace:** Shows the current workspace with the message `HP35CalculatorUIModel new inspect; openWithSpec.`
- HP35CalculatorModel >> #pl:** A list of methods including `one`, `pi`, `power`, `rcl`, `reciprocal`, `rollDown`, `seven`, `sin`, `six`, and `sqrt`.
- HP35Calculator:** A graphical calculator interface with a display showing `3.141592653589793` and a keypad with buttons for `x^y`, `LOG`, `LN`, `e^x`, `CLEAR`, `SQRT`, `ARC`, `SIN`, `COS`, `TAN`, `1/x`, `SWAP`, `ROLL`, `STO`, `RCL`, `ENTER`, `+/-`, `EE`, `CLx`, `-`, `7`, `8`, `9`, `+`, `4`, `5`, `6`, `*`, `1`, `2`, `3`, `/`, `0`, and `π`.
- RPNCalculatorCoreTests >> #testDivision:** A list of test methods including `setUp`, `testAddition`, `testArcSinCosOutOfRange`, `testClear`, `testDivision`, `testDivisionByZero`, `testEmpty`, `testExpLn`, and `testLog`.
- HP35-Calculator:** A code editor showing the `pi` method:
 

```

self autoEnter.
core x: Float pi.
self resetInputAutoEnter
      
```
- HP35CalculatorModel:** An EyeTreeInspector showing the object structure:
 

```

root: a HP35CalculatorModel('3.141592653589793' a RPNCalculatorCore(3...
  core: a RPNCalculatorCore(3.141592653589793 0 0 0)
  memory: 0
  input: ''
  inputState: #new
  arcMode: false
  autoEnter: true
  error: nil
      
```
- Test Runner:** Shows the results of a test run:
 

```

Hit return to accept
Hit return to accept
118 run, 118 passes, 0 skipped, 0 expected failures, 0 failures, 0 errors, 0 unexpected passes
      
```
- Test Finished:** A notification box indicating the test is complete:
 

```

Test Finished
Method:
RPNCalculatorCoreTests >> #testDivision
      
```
- Bottom Panel:** Contains buttons for `Run Selected`, `Run Profiled`, `Run Coverage`, `Run Failures`, `Run Errors`, and `File out results`.

# GT Tools

Spotter

GTInspector

The screenshot shows a 'Playground' window with a code editor on the left and a visualization on the right. The code editor contains the following code:

```
| view |  
view := RTView new.  
view addAll: (RTEllipse new  
    fillColor: Color gray;  
    elementsOn: Collection withAllSubclasses).  
  
RTEdge  
    buildEdgesFromObjects: Collection withAllSubclasses  
    from: #superclass  
    to: #yourself  
    inView: view.  
  
RTClusterLayout on: view elements edges: view edges.  
view edges do: [ :e | e trachelShape pushBack ].  
view
```

The visualization on the right is a circular graph with a central node and many peripheral nodes connected by edges, forming a dense, fan-like structure. The graph is rendered in a light gray color on a white background. The Playground window has a title bar with 'x - □' and 'Playground'. The code editor has a tab labeled 'Playground' and a dropdown menu showing 'a RTView [a RTView]'. The visualization has tabs for 'State', 'Elements', 'View', and 'Methods', with 'View' selected.

# TxText

New TextModell

Preview in Pharo4

# First Class Variables

- First class Instance Variables (Slots)
- First class globals + class variables



# In Progress

- For Pharo4 or 5

# Epicea

- Replace .changes
- High level model:
  - aggregate changes (refactoring)
  - serialized to disk independent of source model

# Advanced Reflection

- Partial Behavioral Reflection
- Associate MetaObject with structural object
  - Slots, Globals
  - AST nodes

# And more...

- VM related news
  - Spur, Sista, 64bit...
  - ..... there are lots of talks here

Questions ?