



Pharo Status

Pharo Consortium Meeting

consortium-adm@pharo.org

23 Jun 2022



Pharo 10

Up and Running!

The logo for Pharo 10 is a stylized lighthouse. The top of the lighthouse is a semi-circle with a gradient from blue to orange, emitting several thin white lines representing light rays. The body of the lighthouse is a dark red, jagged shape. A blue and white striped spiral wraps around the lower half of the lighthouse.

Pharo 10

Objectives

- Smaller Iteration
- Simplification
- Tooling
- Modularisation
- General Improvements
- VM Improvements

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Pharo 10

Smaller Iteration

- Improving the Development process
- Shorter iteration to release
- Reduced Set of Objectives
- Better “Ready” definition

The logo for Pharo 10 is a stylized lighthouse. The top part is a semi-circle with a gradient from blue to orange, emitting several thin white lines representing light rays. Below this is a dark red, jagged shape representing the lighthouse tower. A blue and white wavy ribbon spirals around the tower.

Pharo 10

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A result of a big
introspection

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Pharo 10

Simplification

- Removing duplicated / obsolete code
 - Old Tools
 - V3 Compiler Support
 - Old Blocks & Bytecode
 - VM based event handling
 - Glamour
 - GTTools
 - ...

The logo for Pharo 10, featuring a stylized sun with rays in orange and blue, and a red, jagged, flame-like shape below it.

Pharo 10


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**10% Code
Reduction**

Keeping a good single
one

- 48K LOC



Spec 2

Main Elements

- Core & Basic Layouts
- Basic Presenters
- Application Support
- Styles / Themes
- Code Presenter



Spec 2

Extended Features

- Different Layouts and Composition
- Extended support for Dynamic Layouts
- New Dialog Building
- Transmissions
- Direct Support for Roassal & Cairo
- Multiple Backends (GTK / Morphic)
- Spec Tests and Testing Support



Tooling

- Migrating final tools to Spec
- Improving existing ones
- Fixing issues and glitches
- Improving Refactorings, Deprecator & Rewriting tools.
- Improving Profilers



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In Tools we believe



Fluid Class Syntax

```
TestCase << #AIGraphReducerTest
  slots: { #graphReducer };
  tag: 'Tests';
  package: 'AI-Algorithms-Graph-Tests'
```

```
Trait << #TSetArithmetic
  traits: {};
  slots: {};
  tag: 'Traits';
  package: 'Collections-Abstract-Tests'
```

```
TestCase << #AIGraphReducerTest
  layout: FixedLayout;
  traits: {};
  slots: { #graphReducer };
  sharedVariables: {};
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Clear Syntax

Clean Implementation



Compiler Improvements

- Unifying objects variables into a single Hierarchy
- Improved Semantic Analysis
 - use Class and the Environment to lookup the variables
 - use Variable Hierarchy to model variables for name analysis.
- Improved AST Visitor
- Pragma lookup speed-up
- Compiler Speed Improvements



Refactorings

- New Refactorings
 - Extract setUp method
 - Remove senders of method refactoring
 - Copy package as refactoring
 - Rename package (rename manifest)
 - Merge instance var x in y
 - Move to class side method
 - Create accessors with lazy initialization



Refactorings

- Improved ones
 - Deprecate method (simple version)
 - Deprecate class
 - Extract method refactoring
 - Replace senders by another
 - Rename vars in Traits
 - Convert temporary to instance variable
 - Push up method refactoring
 - Add access to pushUp and pushDown refactorings from source code
 - Permute parameters when add an argument
 - Abstract instance variable (now applies abstract methods when there is a reference to more than one variable in a method)



Other Improvements

- Sista Bytecodes w/ Full Block Closures
- Memory Management Configuration
- Integration with Windows
- Zinc



Lots of Bugs Fixed & Improvements

- + 1560 Pull Requests
- + 1100 Issues Closed
- 85 Different Contributors



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**A great
Community!!**



Pharo 10

VM Improvements

- Sockets
- Clean up old code
- GC Improvements
- Logging
- Stability
- Speed
- Updated Dependencies



Pharo Days 2022

<https://days.pharo.org>

March 3rd and 4th 2021

Lille, France





Pharo Days 2022

- +50 Participants
- 22 Talks & Presentations
- A Hand-On Workshop
- Musical Performance!





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A Success!!!



ESUG 2022

<https://esug.github.io/>

- In Novi Sad
- Return to live meeting!!!
- Nice Presentations proposed
- Early Registration limit: July 5th



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See you there!!

A stylized lighthouse graphic on the left side of the slide. The lighthouse is composed of several horizontal bands of color: a dark blue top section, an orange band, a red band, a dark blue band, and a light blue band. The top of the lighthouse is a semi-circle with a sunburst effect, featuring a central orange circle with rays extending outwards. The lighthouse is positioned on the left side of the slide, with its light beam shining towards the right.

Pharo 11 - Roadmap to be...

- Still working on the roadmap
- Good time to propose / request / desire features
- Keeping our same objectives:
 - Modularisation
 - Clean up
 - Improvements



Pharo 11 - Roadmap to be...

Some Ideas (Under discussion)

- UI Issues (Monterrey / Linux / Windows)
- Stability
- Better PR handling / PHEPs
- Compiler Improvements
- Ephemerons / Image Initialisation
- Iceberg Revamp
- Pakbot
- Launcher in GTK
- Packaging
- Graphics Improvements (Cairo, HDPI, Athens, Roassal)...



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**We want to
listen your
requirements**



Pharo Promotion Books

- Pharo with Style
- Pharo by Example 9

**Available for
Printing**

books.pharo.org

A stylized logo on the left side of the slide. It features a central sun-like shape with rays in orange, yellow, and blue. Below this, there are three wavy, ribbon-like shapes in red, purple, and blue, stacked vertically. The entire logo has a subtle drop shadow.

Pharo Promotion

- Books - books.pharo.org
- Mooc - mooc.pharo.org
- Blog - thepharo.dev

Thanks!!!

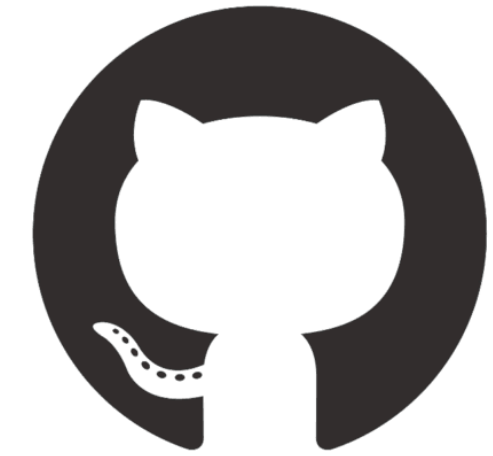


pharo.org



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[pharo-project/pharo](https://github.com/pharo-project/pharo)



discord.gg/QewZMZa



thepharo.dev