Pharo 9 Status

Consortium Meeting

9 Jul 2020

Original Roadmap

- Headless VM

- FFI improvements

- Spec 2: Morphic & GTK Backend

- Sista Bytecodes w/ Full Block Closures

- Memory Management Configuration

- Integration with Windows

- Tools migration (with improvements)

    - Debugger

    - Inspector

    - Playground

- Clean-ups / Bugfixes / Improvements

VM Roadmap (1/2)
Headless VM

- SDL2 World Renderer (Done)

- Remove old VM code for handling graphics & events (Done)

- GTK World Renderer (Ongoing)

- Improvements and clean-ups (ToDo)

- Idle VM (Done)

- Implementing World renderers to use Idle VM (Ongoing)

- Use headless VM as default for Pharo 9 (Ongoing)

- Open Build Service (Ongoing)

VM Roadmap (2/2)
Foreign Function Interface (FFI)

- Threaded FFI backend for UFFI (Done)

- Different running strategies (Worker / Same Thread / Main Thread) (Done)

- Consider using Lowcode to replace part of the machinery (Done / Discarded)

- Replace memory access with machine code primitives (Done)

- Improve FFI speed on Callbacks & Callouts (Ongoing)

- Replace Old FFI Backend (ToDo)

- Executing FFI callouts though specific bytecodes (ToDo)

Image Roadmap (1/3)
Spec 2

- Core & Basic Layouts (Done)

- Basic Presenters (Done)

- Application Support (Done)

- Styles / Themes (Done)

- Code Presenter (Ongoing) / Diff Presenter (ToDo)

- Documentation

  - Core (Done)

  - Layouts (Ongoing)

  - Widgets (ToDo)

  - Book (Ongoing / Delayed)

Image Roadmap (2/3)
New Tools

- Playground (Done)

- Debugger (Done)

- Inspector (Ongoing)

- Spotter (ToDo)

Image Roadmap (3/3)
Other Big Goals

- Sista Bytecodes w/ Full Block Closures (Done)

- Memory Management Configuration (Done)

- Integration with Windows (Done)

- Clean-ups / Bugfixes / Improvements (Ongoing)
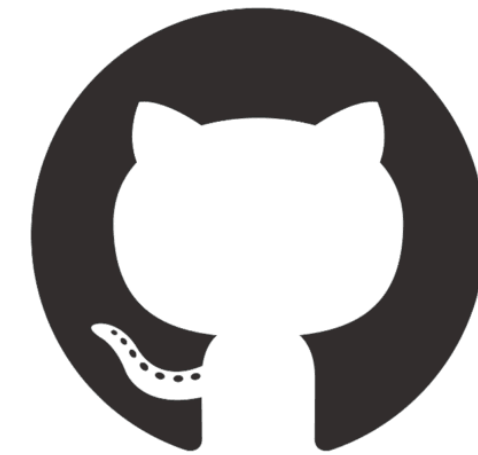
New Consortium Members

- NIDEA

- PharoPro

- JPL

- InfoOil (Ongoing)

- Ryerson University

- University of Novi Sad (Ongoing)

Thanks!!!

pharo.org

pharo-project/pharo

discord.gg/QewZMZa

thepharo.dev