Morpheus Development Roadmap

Version 2.1

Scheduled release date: **June 2019:**

Features

- Improved SBML support
- New adaptive step size ODE solver (RK45)
- Provide local scope access in NeighborhoodReporters
- Bug fixes …

Version 2.2

Scheduled release date: **Oct 2019**

Planned GUI features

- **QT5** version upgrade
- **3D simulations preview** using VTK
- Interactive dependency graph
- Support for **MultiCellML**

Planned Simulator features

- Heterogeneous Advection / Diffusion
- Fields inside of Cells

Version 2.3

Scheduled release date: **Oct 2019**

Planned features

- **New** compact model **storage format** in accordance with SED-ML
- **Python scripting** bindings for rapid plugin prototyping and morpheus interactive control.
- Public **model repository**, including options to convert to other simulator frameworks (CC3D).

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