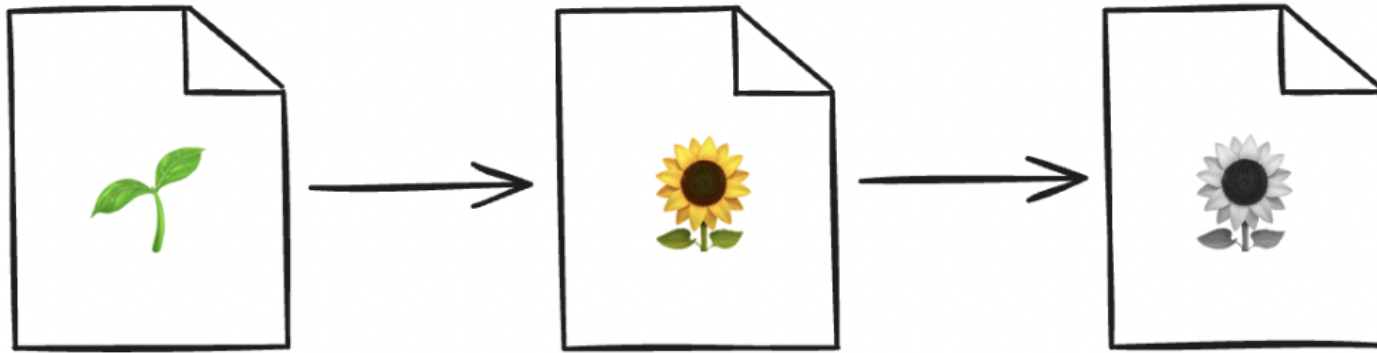# 🪴 Software Gardening Almanack v0.0.1

*Cultivating Sustainable Software in the Generative Era*

# Background



Scientific software developed through factory assembly approaches often overlooks the dynamic evolution of code which leads to rapid decay.
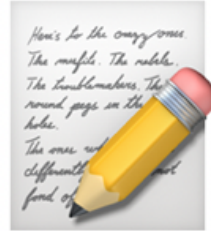
# Project



The Software Gardening Almanack is an open-source handbook of applied guidance and tools for sustainable software development and maintenance.

# Project

The Almanack focuses three main chapters:
people, code, and time.

# Phases

Initial project development phases:

1. ✅ Build scaffolding

2. 🌱 Primary development

3. 🌱 Research software engineer mentorship

4. Fellowship completion

# Organization



An organzation is used as a *"garden bed"* for the Almanack.

# Structure
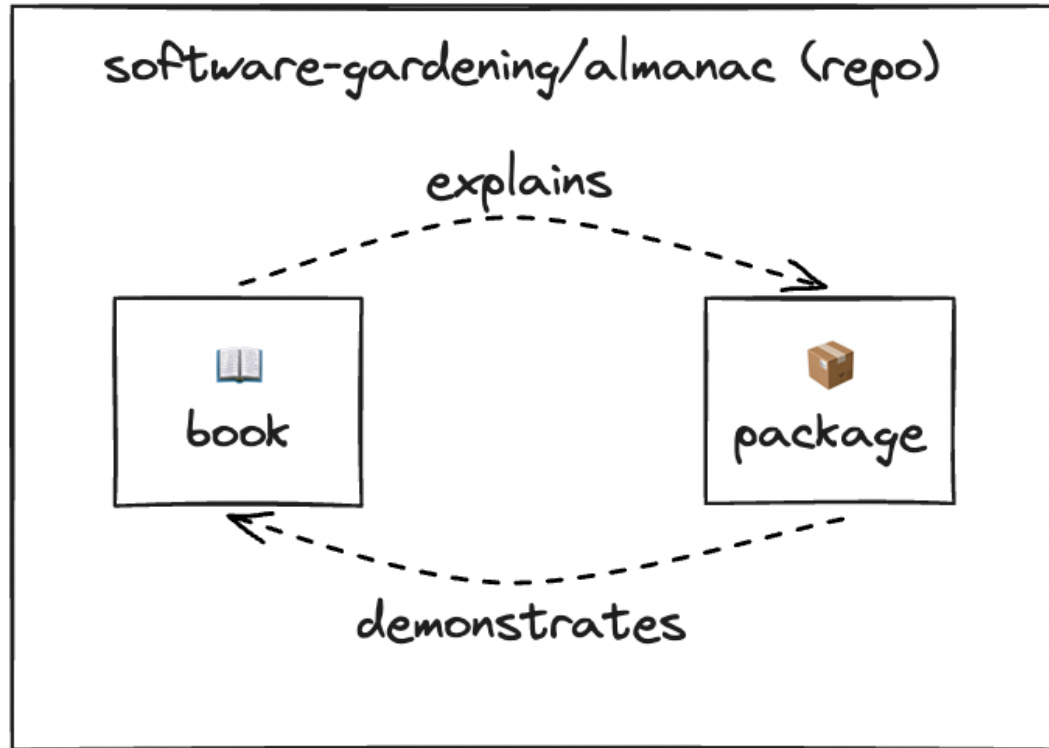


The Almanack includes a handbook and Python package with symbiotic relationships.

# Handbook
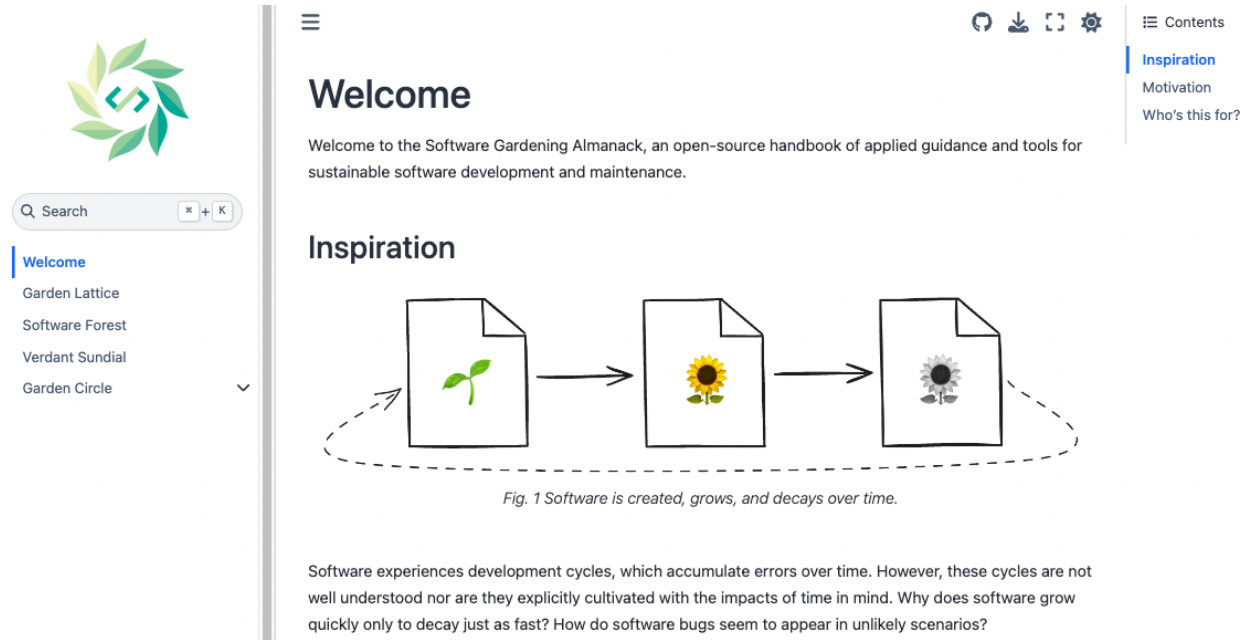


We use `jupyter-book` to build the handbook at:
https://software-gardening.github.io/almanac
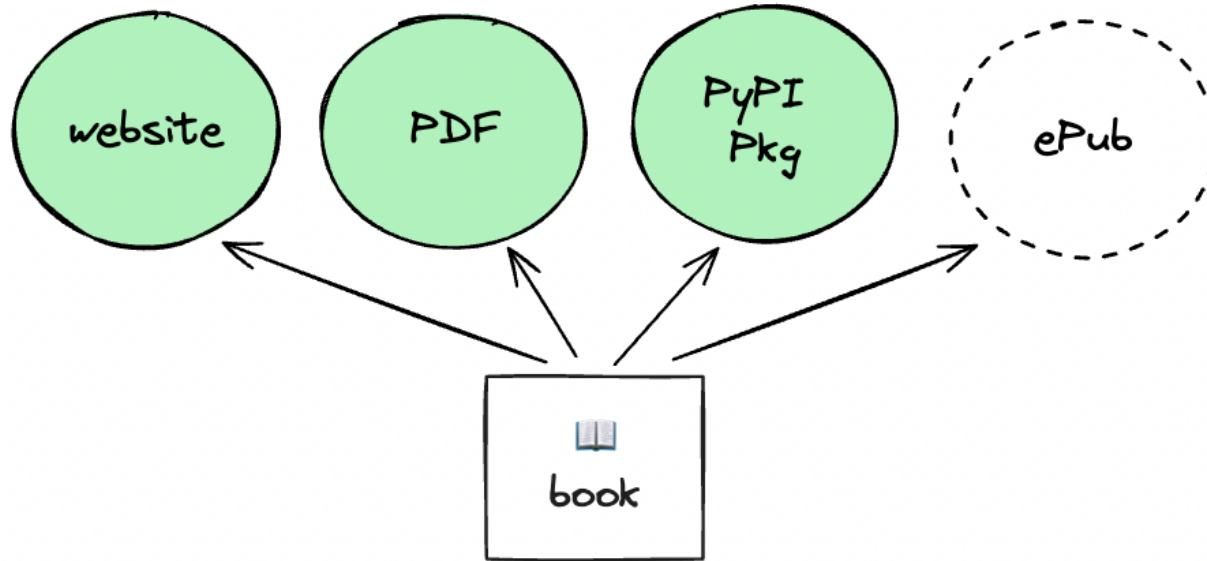
# Handbook



The handbook can be read through a website, PDF, PyPI package, or (eventually) ePub.

# Package



The `almanack` package is distributed via PyPI.

# Package
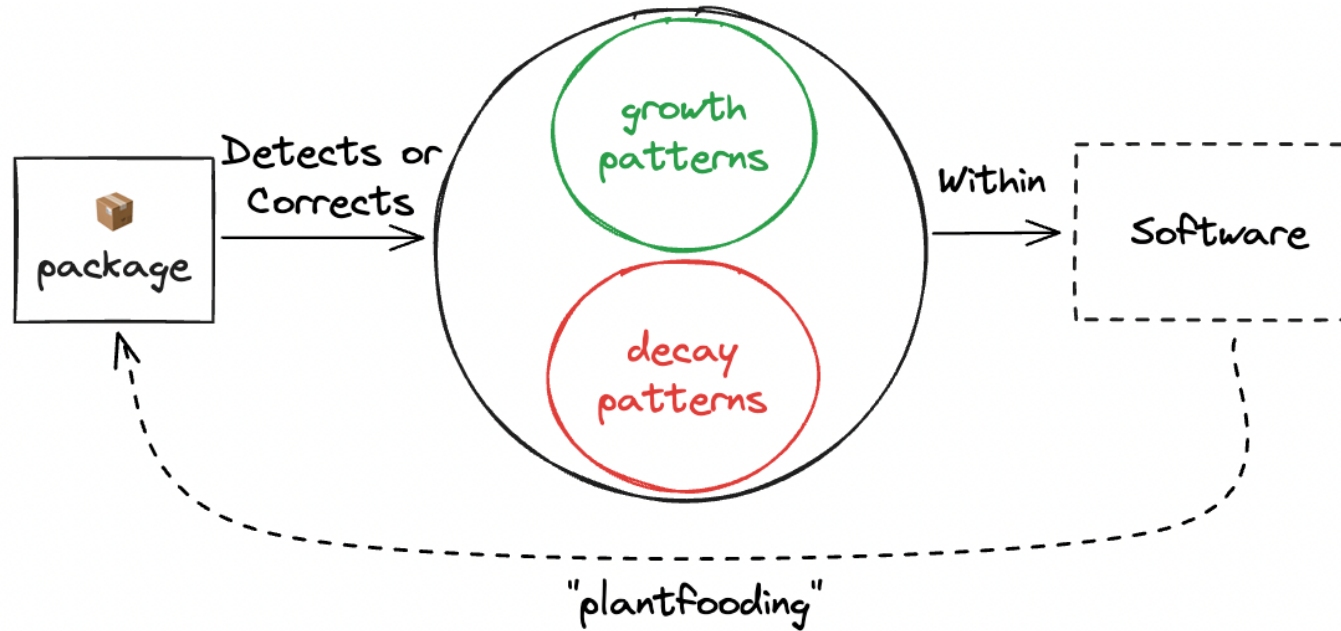


The package will detect, correct, or enhance growth or decay patterns.

# Package

🛠️

**Initial pattern foci:**

- Measuring code senescence through information theory.

- Software environment management best practices.

- Avoiding burnout or key-person dependencies through contributions.

# Questions



**Questions for the audience:**

- What patterns are you interested in seeing addressed?

- Are there funding opportunities which align with these efforts?

- Any questions you have?

# Thank you

Thank you for attending! Questions / comments?

Please don't hesitate to reach out!

- </> Software Gardening
- ⦿ @d33bs