

Agenda

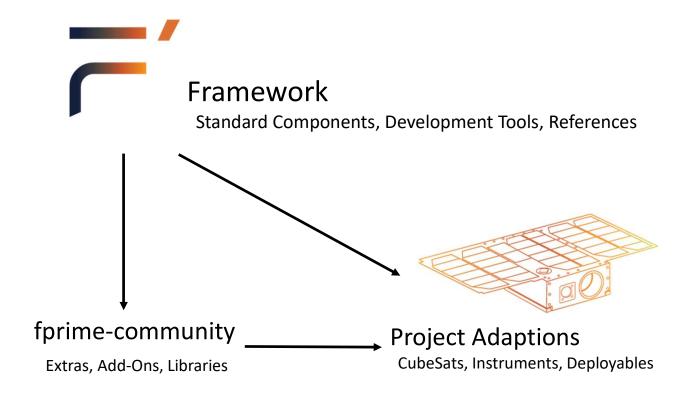
- F' and Open Source
- Benefits of Open Source
- Lessons Learned
- F´ and the Future

Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not constitute or imply its endorsement by the United States Government or the Jet Propulsion Laboratory, California Institute of Technology.



F' and Open Source

Framework and Projects



Open Sourcing



Apache License, Version 2.0

F 'Open Development Model

Master Develop Feature Central Repository

V0.1

V0.2

V1.0

Developer Forks

https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow



Open Tooling and Documentation



Automatic Pull Request Verification

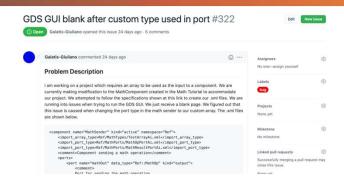


Benefits of Open Source





Documentation Edits



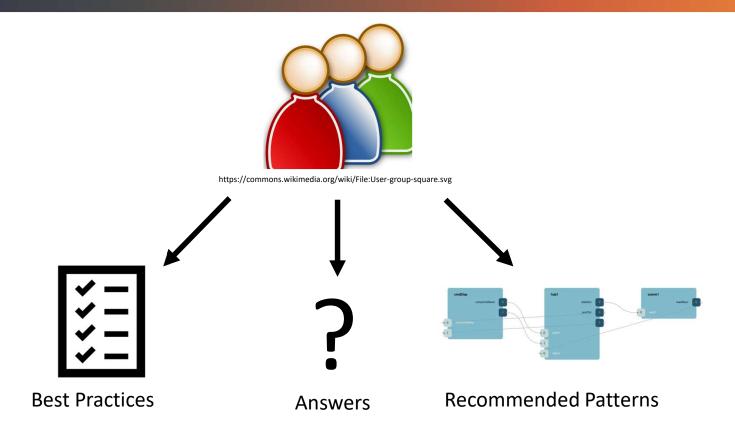
Error Reports



Design and Code Reviews

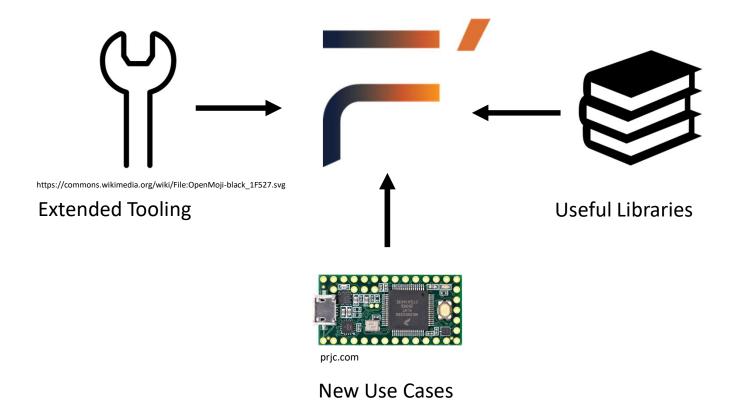
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Community of Expertise





Ecosystem Surrounding Framework

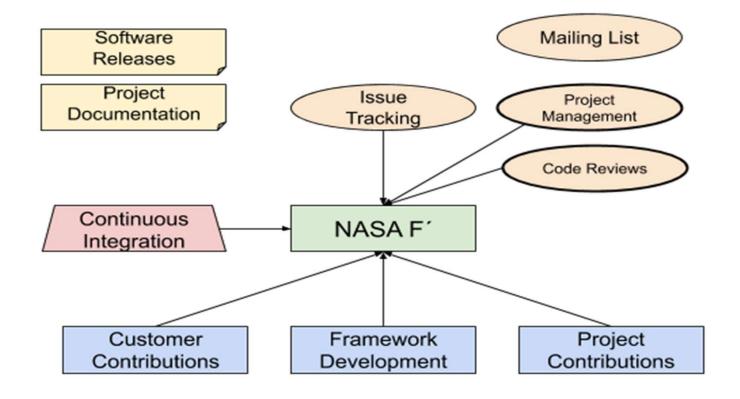






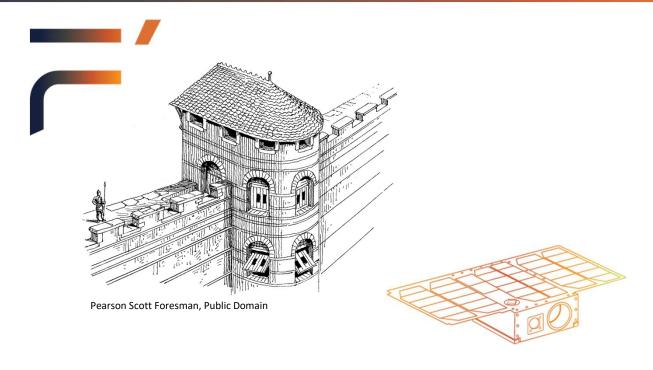
Lessons Learned

Embrace Openness





Separate Product Line from Projects



Budget, Schedules, Short-Cuts



Leverage Tools and Automation



Free and Open



Ease Maintenance



Standard Practice

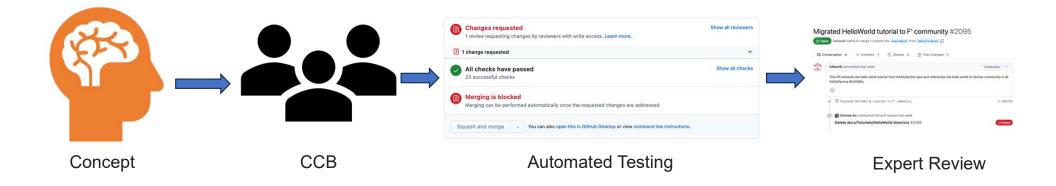


Low Integration Overhead



Reduce Development

Accepting Contributions



All contributions to the F' product line are approved via a change control board (CCB), run through a comprehensive set of automated tests, and finally reviewed by a subject matter expert before merging into the product line.

Questions?





F Prime Website:

https://fprime.jpl.nasa.gov

F Prime Software:

https://github.com/nasa/fprime

F Prime Community:

https://github.com/nasa/fprime/discussions



