

____ Agenda

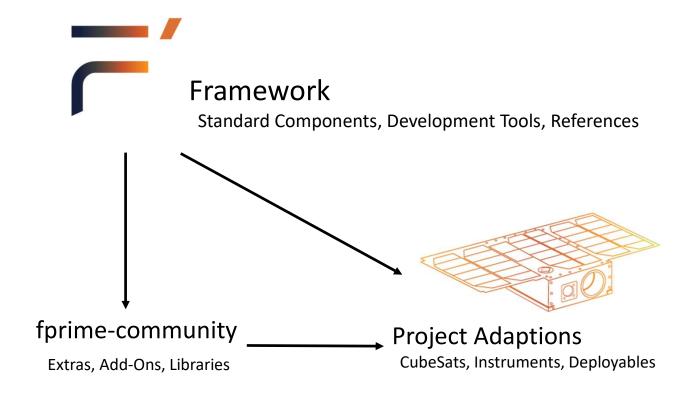
- F Prime and Open Source
- Benefits of Open Source
- Lessons Learned

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' Embedded Systems Framework

Framework and Projects

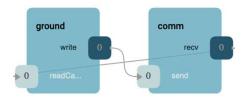




Framework Components



Documentation



Standard Components



Communitory (Nates Common Use). Doubles Logic Conditional

Filters:

Count Time: Count M. Double Name: Count Construction

Count Time: Count M. Double Name: Count County Count Onsolyticis

COUNTRY OF A SHARED. Drill.

COUNTRY OF A SHARED. DRIVE. DRIVE

Testing Tools



References / Examples



Autocoding



F' and Open Source

Open Sourcing



Apache License, Version 2.0

F 'Open Development Model

Master Develop Feature Central Repository

VO.2

VI.0

Developer Forks

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



Open Tooling and Documentation



Automatic Pull Request Verification



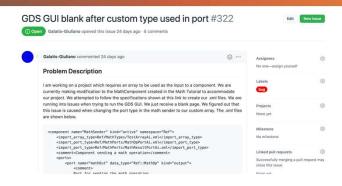


Benefits of Open Source

Extended Oversight



Documentation Edits

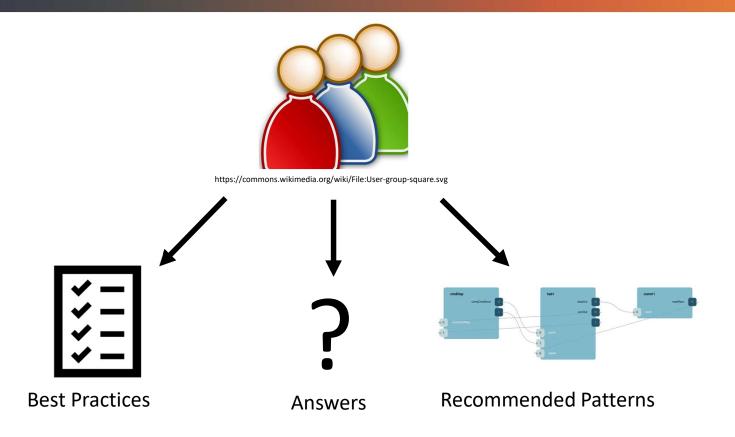


Error Reports

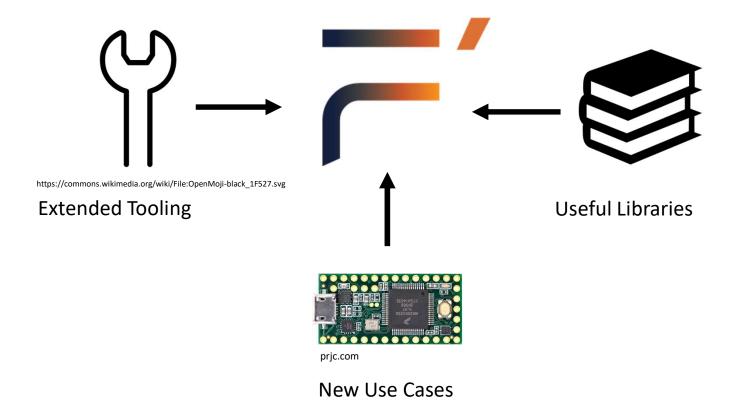


Design and Code Reviews

Community of Expertise



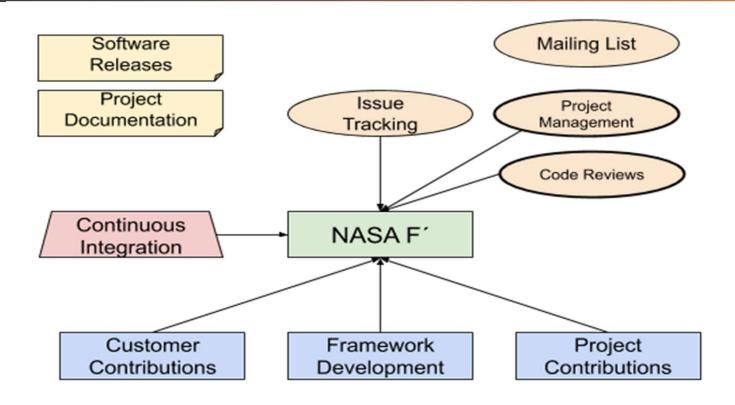
Ecosystem Surrounding Framework





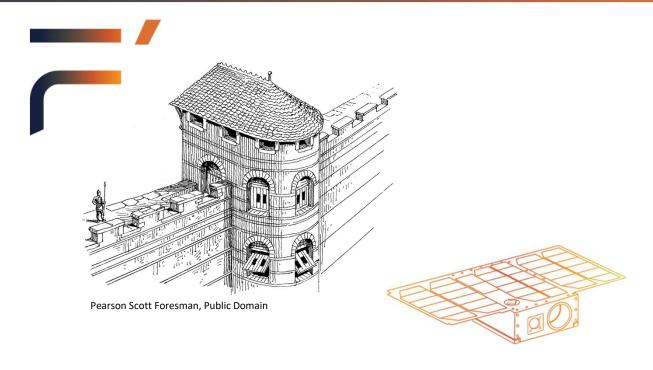
Lessons Learned

Embrace Openness





Separate Product Line from Projects

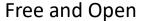


Budget, Schedules, Short-Cuts



Leverage Tools and Automation









Standard Practice



Low Integration Overhead



Reduce Development

Questions?





F Prime Website:

https://nasa.github.io/fprime

F Prime Software:

https://github.com/nasa/fprime

F Prime Community:

https://groups.google.com/g/fprime-community







jpl.nasa.gov