DSPACE

How to "Hack" the DSpace Community

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Hacking any OS Community

How do things get done?

Who are the "do-ers"?

What is their motivation? Why do they care?

 What is your own motivation? What do you want to achieve?

How things get done

- Releases just happen!
- One person / organization decides it all!

• Ummm... no.



The Primary "Do-ers"

Committers Team

 DSpace Community Advisory Team (DCAT)

"The Community" (i.e. YOU)

Committers

- Meritocracy and democracy
- 24 volunteers from around the globe
- Roles:
 - Reviewers / approvers of code
 - Writers of (some, but not all) code
 - Fixers of bugs / maintainers of software
 - Release planners
 - Technology support



DCAT

- Open membership
- 22 volunteers from around the globe
- Roles:
 - Voice of the repository manager/admin
 - Champions of feature requests/bug fixes
 - Surveyors of community / Networkers
 - Gatherers of use cases
 - Repository Admin support

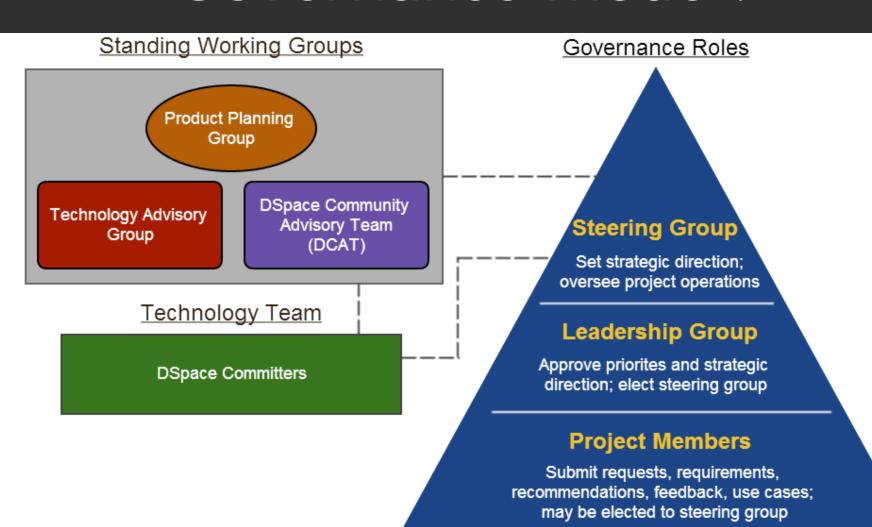


The Community / Contributors

- Everyone, literally (includes YOU)
- Roles:
 - Answerers of questions (on mailing lists)
 - Providers of feedback
 - Requesters of features
 - Reporters of bugs / issues
 - Contributors of features / bug fixes
 - Contributors to documentation



What about this new Governance model?



Goals of Governance Model

Really about increasing efficiency and organization of our resources

 Help us to better prioritize what gets done

 Helps try to locate more resources / funding (add more "do-ers")

DSPACE

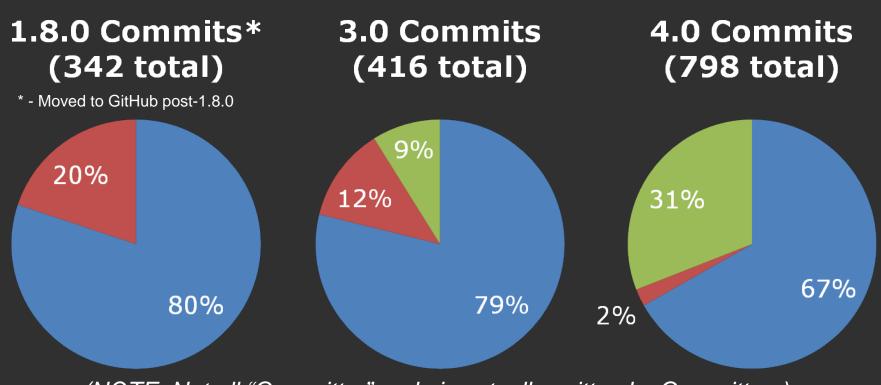
You can have more opportunities & influence. Become a DuraSpace Member! Support DSpace!

Who writes the code?

- Committers (and developers at their institutions)
- The Community
 - submit code for review (via GitHub)
- Recent Major Releases:
 - -4.0:59 contributors (19 Committers)
 - -3.0: 43 contributors (14 Committers)
 - -1.8: 44 contributors (14 Committers)



Code Commits to DSpace



(NOTE: Not all "Committer" code is actually written by Committers)

Committers (non-DuraSpace)

DuraSpace

Community Members

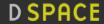


Data based on commits between release dates, from: https://github.com/DSpace/DSpace/graphs/contributors

So, why should I contribute (code)?

Motivations to contribute

- "Greater Good" motivations, e.g.
 - Betterment of product for all
 - Help your colleagues, earn "merit"
- "Local" motivations, e.g.
 - This tiny fix needs to be maintained!
 - Upgrade difficulty increases as you make more locally-specific changes
 - Are you *CERTAIN* your local change is really only interesting to you? Ask.



OK, I have (code) to contribute!

How do I contribute code?

- 1. Open a ticket in JIRA (anyone can)
 - Attach or link to code change
- 2. Code change is reviewed by Committers
 - Majority vote wins. But, veto power.
- 3. Response is either:
 - Accepted -> it's in!
 - Changes requested -> it needs fixes
 - Rejected -> it's out?

Why may delay a ticket?

- Committers are volunteers!
- Sometimes...
 - we overlook things / forget
 - we have questions / concerns
 - we don't have enough background info
 - / details
 - we cannot find a volunteer developer

http://tinyurl.com/dspace-code

How can I help speed it up?

- Be responsive, please
- Remind us (seriously, we don't mind)
- Use JIRA & GitHub
- Share your code early
 - Esp. large changes



http://tinyurl.com/dspace-code



How do I request a feature?

- 1. Open up a ticket to describe feature and sample use cases
- 2. Ticket & idea are reviewed
 - By both Committers and DCAT
 - DCAT may add use cases / promote
- 3. Volunteer developer(s) sought
- 4. Feature built/developed
- 5. Feature code reviewed / approved



How can I help speed it up?

- Be responsive, please
- Help gather info / use cases
- Help locate developer
 - Hire service provider?
- 'Vote' or comment on features of interest in JIRA



http://tinyurl.com/dspace-contribute



How do I get it fixed?

- 1. Open a ticket (if one doesn't exist)
- 2. Ticket is reviewed (by Committers)
 - We attempt to verify the bug
- 3. Volunteer developer(s) sought
- 4. The fix is determined/developed
- 5. Bug fix code is reviewed / approved



How can I help speed it up?

- Be responsive, please
- Provide as much info as you can about reproducing the bug
- Help locate a developer and/or fix
- You can also help us verify bugs!
 - In JIRA, add a verification comment



Look, I already knew all of this...



Get (more) involved!

- Help answer questions on lists
- Help improve documentation on wiki
- Join DCAT
- Help verify bugs or send in fixes
- Opportunities abound, get in touch





Questions / Comments?

Contact Info & Slides

- Email: tdonohue@duraspace.org
- Slides: http://www.slideshare.net/tdonohue/

Image Credits

- Hacker: https://flic.kr/p/bEy1pi
- Magic ball: https://flic.kr/p/tYTwd
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