Breaking Down Barriers



This is your community, here's how to participate!

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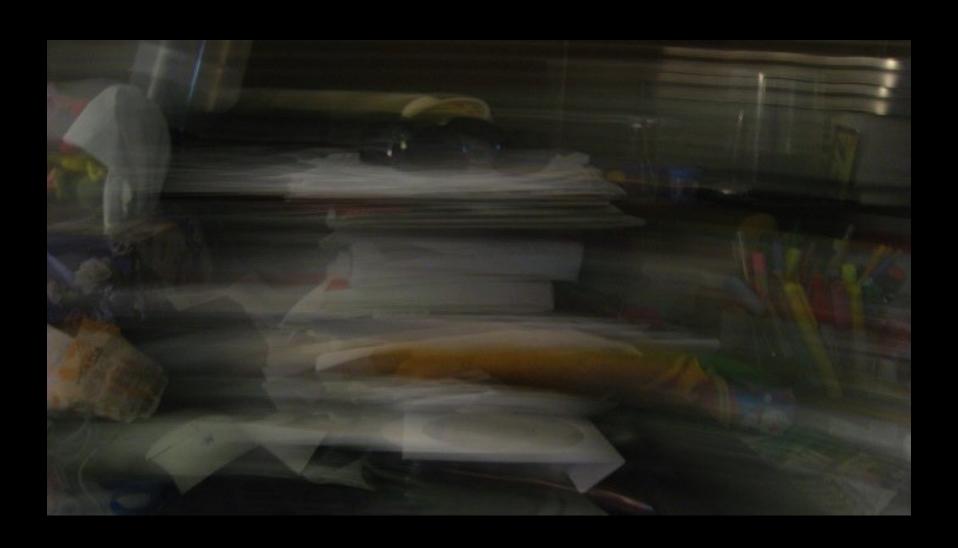


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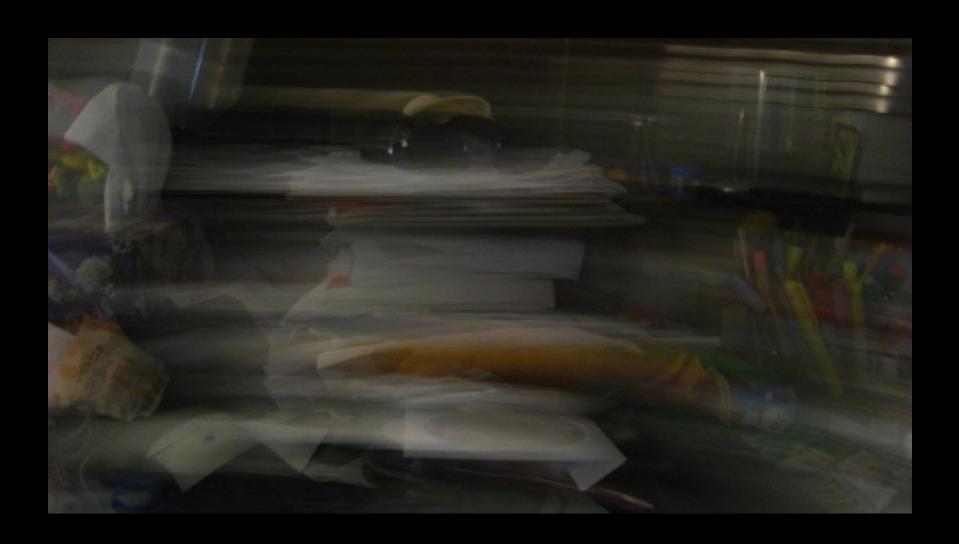
Who is this guy, anyway?

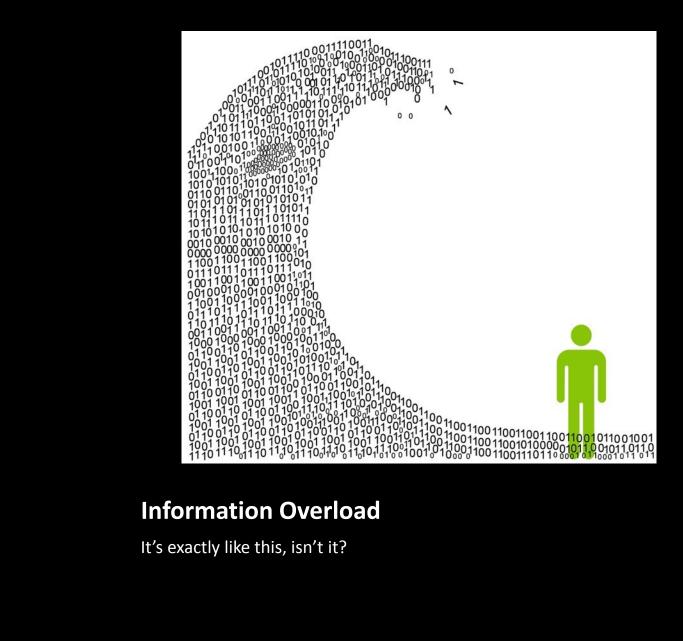
- I'm a repository developer, working here in Missouri
- I'm a DSpace Committer (since August 2011)
- I really like to collaborate, not just with other developers
- I complain, a lot

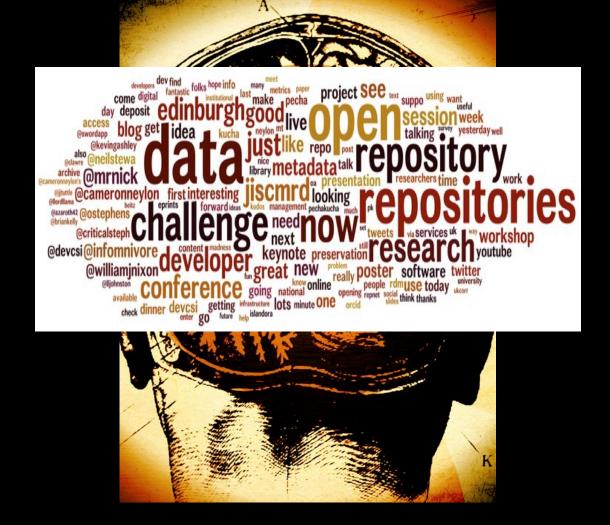
I have so much to do!



We all have so much to do!





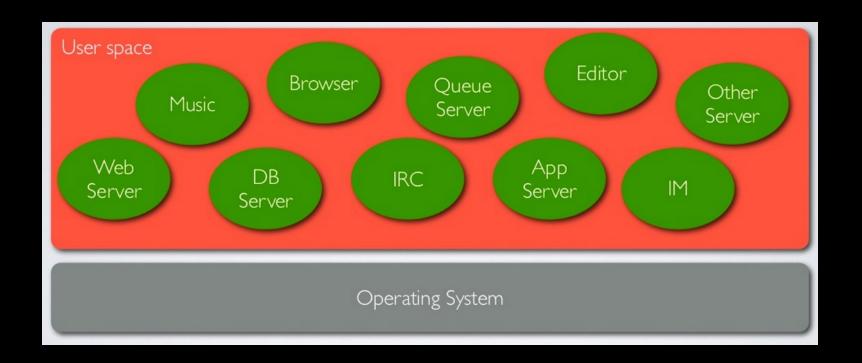


Apologies to Adam Field and Peter Burnhill....

I really like this wordle from OR12, and the color scheme matched, I had to put them together!



The point: we cram a lot in there



Inside the typical developer's workstation

Here's what we try to cram in to our computers. This is important, I'll get back to it in a minute.

Perspectives

- A manager sees an overwhelmed developer and thinks
 - Need more developers
- A repository manager sees long response times to change requests and thinks
 - Need more developers
 - These guys have no idea what they are doing



It's all a little bit true.

I'll explain why...

All admins (IT and Repository) agree

- We don't have enough developers to get done, what we want done
- How do we get out of this mess?

Lower the barriers to participation!

- there are many ways to participate (some you know, some you may not)
- developing software does not need to be as hard as we have made it in the past
- collaboration is fun! the spirit of play and exploration is really important

But, we're not developers!

- I don't care!
- OK, seriously, it doesn't matter, you can still participate

What you probably already know

- Subscribe and participate on the mail lists
 - dspace-general
 - dspace-tech
 - dspace-devel
 - dspace-release
 - https://lists.sourceforge.net/lists/listinfo/dspace ...general, tech, devel, release
 - You should sign up for all of them, no matter your technical background, and if anyone complains, send them to me

But I already get too much e-mail!

- I don't care!
- OK, seriously, I care, and I know exactly where you are coming from, but, here's the thing:
- E-mail filters are awesome
 - Promise me you'll sign up for all the DSpace mail lists, and I promise I will figure out how to use e-mail filters again, AND...
 - I will write a how-to
 - But, while you wait, you should check out http://inboxzero.com/

DSpace Community Advisory Team

- http://tinyurl.com/dspace-dcat
- "help review and facilitate community-wide discussions about new feature requests... and to provide support to the DSpace Committer group in producing software releases."
- Monthly teleconference via Skype
- 2nd Tuesday of every month

Who is this?



Who is this?



What you may

- You NEED a GitHub account https://github.com/signup
 - GitHub is "Social Coding"
 - Just like any other social
 Twitter, Google Plus) you
 and projects they are wo
 - This isn't just good for you map you help create can community
 - And you'll need the acco



GitHub is Social Coding

https://help.github.com/articles/be-social

- Follow your own developers
 - they will notice, and will take it as a compliment
 - seriously, don't worry about frightening them
 - besides, they deserve it!
- Follow all contributors to DSpace
- "Star" and "watch" interesting project
- Configure your notifications (but don't just turn them off)



GitHub is Social Coding

- Follow all the contributors to DSpace, not just the committers
 - https://github.com/DSpace/DSpace/graphs/contributors
 - Star and "watch" interesting projects
 - Keep an eye on the DSpace wiki for new and interesting projects

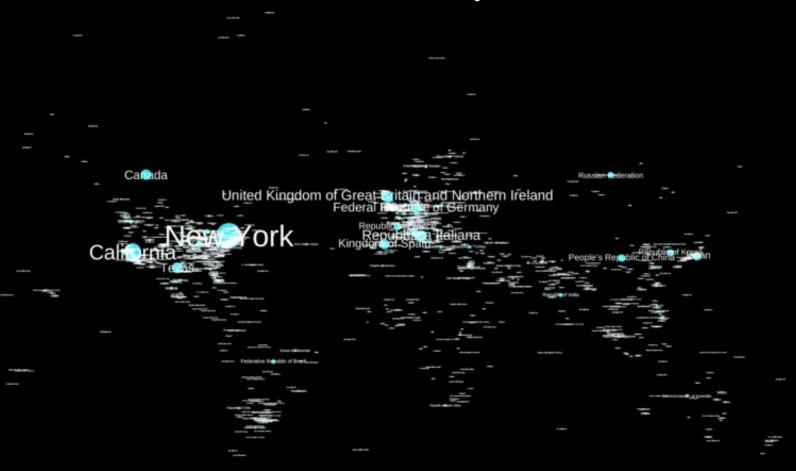
New and interesting projects

- Terry Brady at Georgetown University
 - https://github.com/terrywbrady
 - File-Analyzer
 - Batch-Tools
- Kim Shepherd (kshepherd)
 - http://tinyurl.com/dspace-streaming
- Hardy Pottinger (hardyoyo)
 - http://tinyurl.com/dspace-replace-auth

New and interesting (continued)

- Richard Rodgers' MDS (Modern DSpace)
 - https://github.com/richardrodgers/mds
- Anja LeBlanc's REST-API work (search, plus the new JORUM interface)
 - https://github.com/DSpace/DSpace/pull/434
- Almost anything that looks interesting in the list of DSpace "pull requests"
 - https://github.com/dspace/dspace/pulls

MIT: API for data mining OA fulltext items in DSpace



Also worth watching

- Harvard's MyDASH site code
 - https://github.com/oscharvard/mydash
 - It's a Drupal interface to DSpace statistics
 - See it in action at
 - https://osc.hul.harvard.edu/dash/mydash

You don't need to be a developer to participate in the conversation!

- "Just watching" is enough, the number of watchers on a project is useful data
- if you get a notification about something interesting to you, pass it on to your developers: be their "eyes and ears"
- if a developer asks for help in evaluating their work, you may be able to provide that feedback (don't assume you are not able)

Let's talk a little bit about IRC

- Internet Relay Chat, it's the great grandfather of Instant Messaging
- You've heard of it, but it's "scary"
- It even scares developers
- But, IRC remains the best way to regularly interact directly with the DSpace developer community, while we discuss building the software, day in, day out

IRC: it's not that scary, really

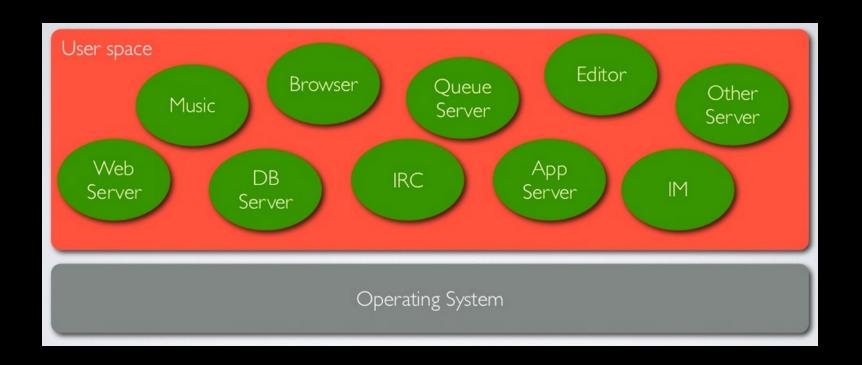
- You don't have to install anything, just go here: <u>http://webchat.freenode.net/?channels=dspace</u>
- Or here:
 - http://webchat.freenode.net/?channels=duraspace
- Pick a nickname for yourself
 - FirstnameLastname works fine and is friendly
- Say hello, start a conversation (whatever is on your mind about DSpace works)
- Or listen to the ongoing conversation
- We are all very friendly and will treat you with courtesy,
 I promise

IRC: it's not that scary, really

- You don't have to hang out all day every day
 - Though, if you do, that's cool
 - We won't judge, but we might put you to work
- If you can spare the time, sit in on our weekly Developer's Meeting (every Wednesday at 20:00 UTC in #duraspace)
- Watch for an announcement of a release date, the #dspace room can get pretty entertaining on release days

Developing software does not need to be as hard as we have made it

- I was overwhelmed
- My boss said, "We'll get you some help."
- We hired a student
- I did my best to show him the way



The old way

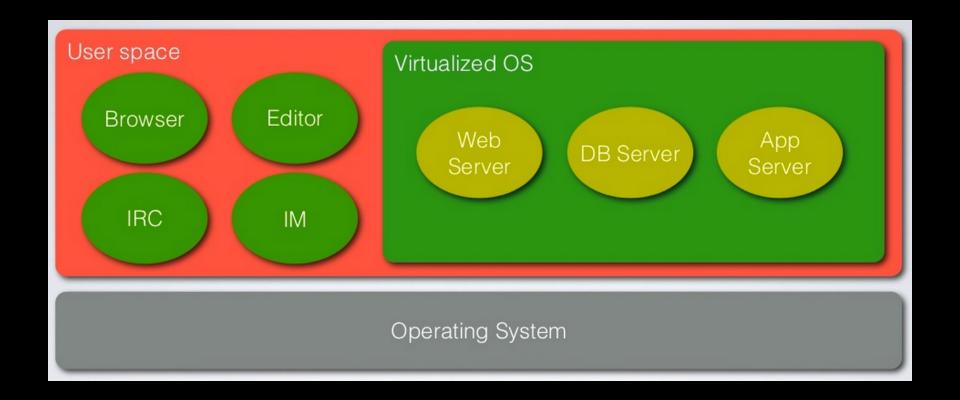


We spent months, he did not get past this hurdle

I complained, again

- Our sysadmin pointed me to Vagrant
- http://www.vagrantup.com/
- Go there now if you want, it's cool with me.
- "Development environments made easy."

What is Vagrant?



No, really, what is Vagrant?

"Vagrant is a tool for building complete development environments."

Set up a development environment

- Quickly
- Reproducibly
- In a way that is readily sharable with others

http://www.vagrantup.com/

Vagrant-DSpace is born

https://github.com/dspace/vagrant-dspace

- A collaboration between myself and Tim Donohue, with some help from Luigi Andrea Pascarelli (thanks, Tim & Andrea, we owe you)
- I knew Tim was working on Puppet modules for provisioning DSpace Direct, so I pestered him to share his modules with me
- Vagrant has Puppet embedded, Tim shared what he had, we got it all working with Vagrant

Open Source Software Development is a conversation

- "Hey, I hear you're working on something awesome, can I play, too?"
- GitHub formalizes the process
 - Fork a project ("hey, this is cool, I want to play!")
 - Provide Pull Requests ("here's something cool I did with your thing, you might like it, let's play!")
 - Code comments ("I tested your cool thing, here's what I found out, thanks for sharing, you are awesome!")

This is fun! the spirit of play and exploration is really important

- try new things (especially try Vagrant-DSpace)
- talk about what you are learning
- if you find a solution to a problem you've asked someone to work on for you, tell them!
 They'll be really excited, and so will you!
- consider testing a Pull Request and providing feedback in GitHub (watch the DSpace-release mail list for suggestions on what needs testing)

Issue trackers are awesome

- there is lots of "low hanging fruit" in the DSpace JIRA issue tracker
- https://jira.duraspace.org/issues/?filter=1210
 2
- The label "low hanging fruit" is a work in progress, we will tag more tickets as we review them
- Tell your developers, this is an easy way to get your feet wet, and be useful at the same time

If a developer is working on something you're interested in, let them know

- good: email or face to face
- better: try their code and give them feedback on it
 - what works,
 - what doesn't
 - what surprised you
 - what delighted you

If no one is working on the feature you'd like to exist, let the community know

- Good: ask about it on the mail lists
- Better: work with DCAT, and advocate for the feature
- If you know of other institutions that might be working on the feature, or something similar, start a conversation with their developers, or have your developers do the same

"My code is not ready to share"

- If you start a collaboration conversation, you may hear this
- Ignore them (but don't be rude about it)
- Keep asking anyway (just not every day)
- Talk about what they are working on with others (they may also ask them)

There are many ways to participate

- mail lists
- DCAT
- meetings like this one
- GitHub is "Social Coding"
- IRC is worth the time
- Development doesn't have to be scary or hard
- Collaboration is fun!

Come play with us!



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Questions?



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Images Used

- Push by Rohan Gupta http://thenounproject.com/term/push/11715/
- Messy Desk by Yatoobin http://www.flickr.com/photos/30661646@N00/243293760/
- Information Overload by Intersection Consulting http://www.flickr.com/photos/intersectionconsulting/7537238368/
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