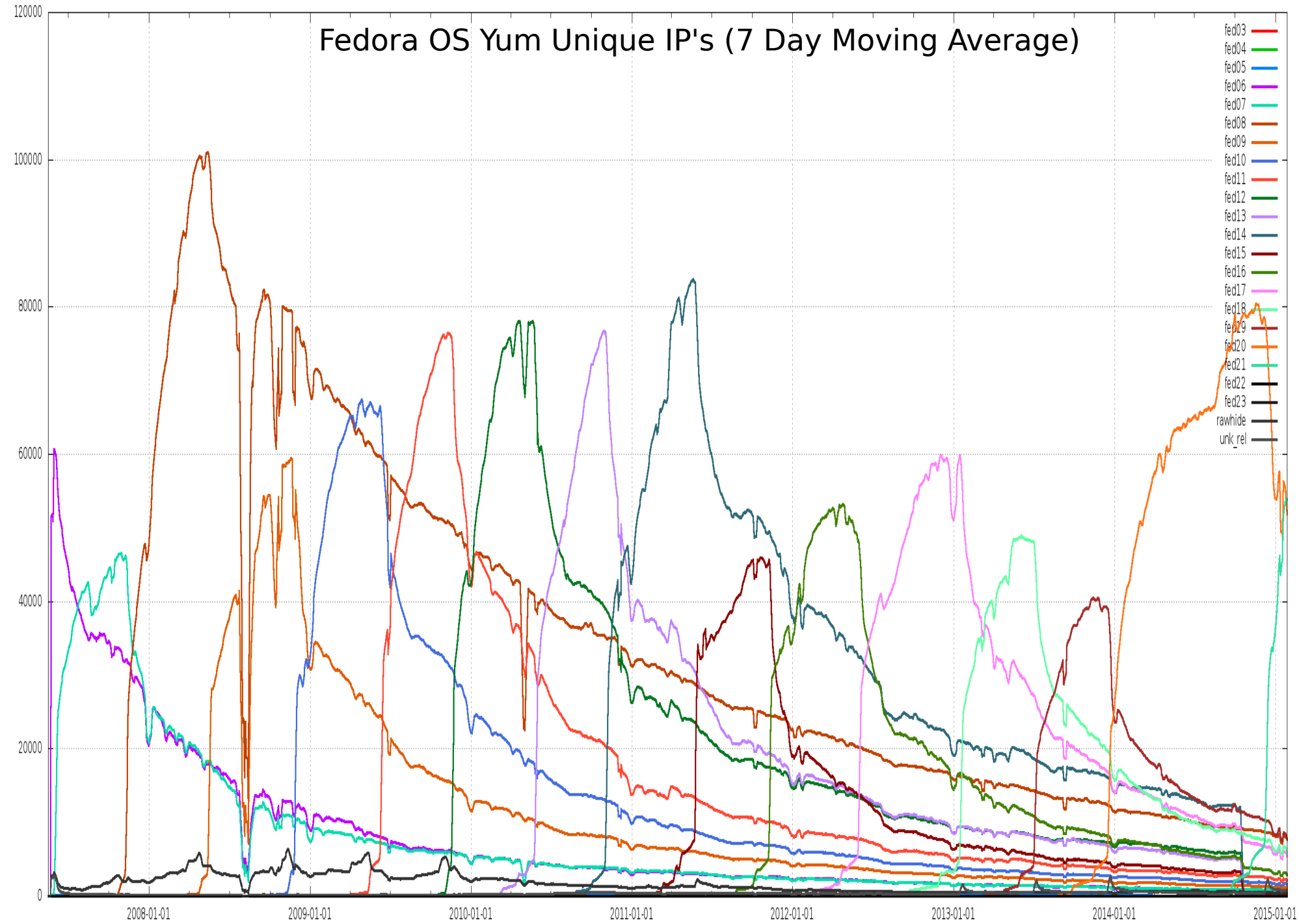# Fedora Project

Stats && Metrics && Tools

Remy DeCausemaker
decause@redhat.com
Fedora Community Impact & Action Lead
@remy_d | @fedobot

fedora

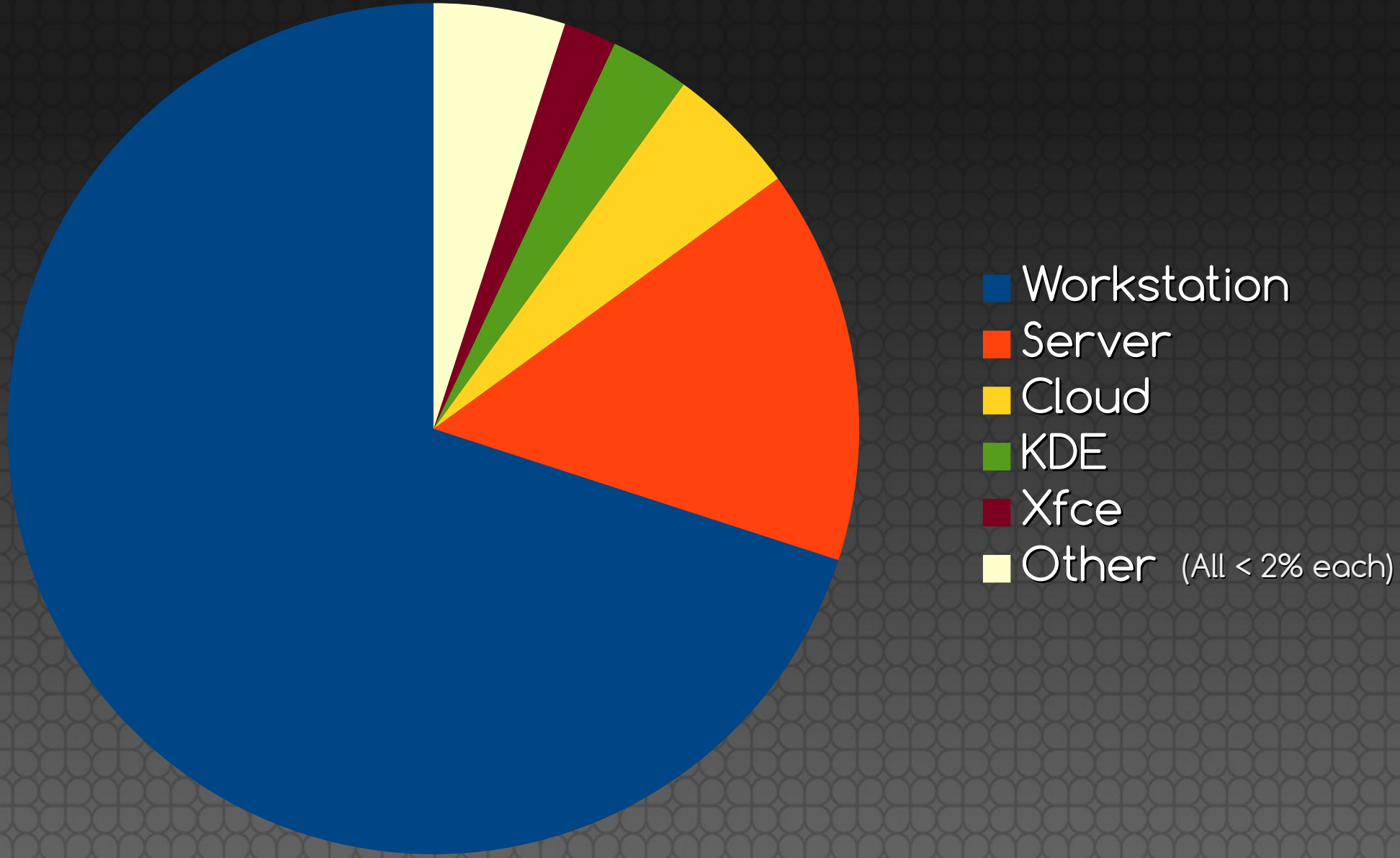Fedora OS Yum Unique IP's (7 Day Moving Average)

Yum Repo Stats by Release

- Graph Shows repo connections per IP address per day

- Generally:

  - 1/3 of users update quickly to new releases

  - 1/3 update slowly up until EOL

  - 1/3 are long tail (never updated)
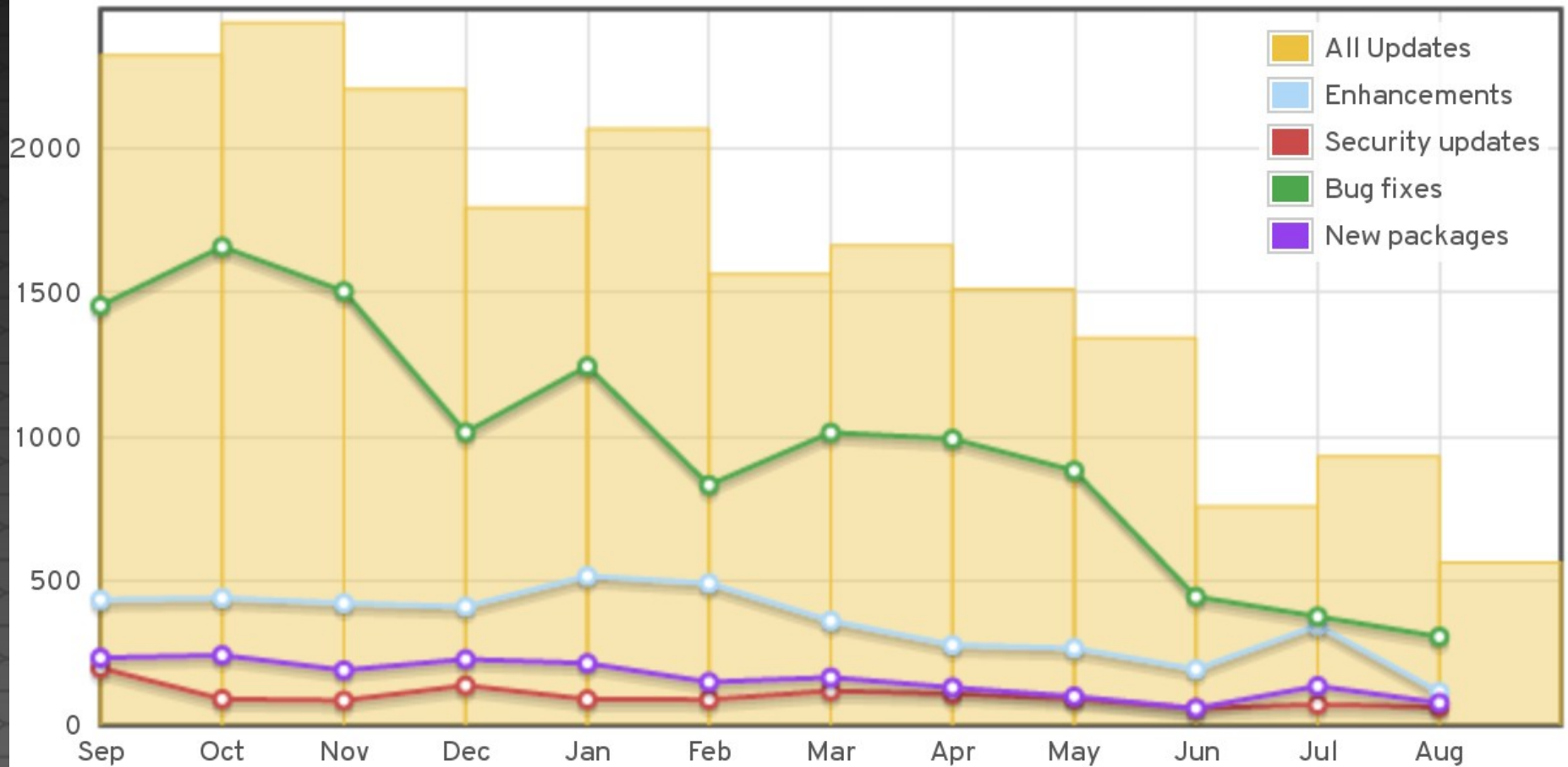
fedora

Fedora 21: ISO Downloads by Edition

■ Workstation
■ Server
■ Cloud
■ KDE
■ Xfce
■ Other (All < 2% each)

Extremely rough numbers with considerable guesswork and not yet enough data

Bodhi: Shipping Bits to Users

fedora

Bodhi Stats: F20 Updates

Metric	Value	% Change	% of Total Updates
Updates	15012	8%	
Packages Updated	6952	6%	
Stable Updates	13207	9%	
Testing Updates	250	9%	
Pending Updates	35	-10%	
Obsolete Updates	1520	15%	
Bugfix Updates	8397	6%	56%
Enhancement Updates	3605	18%	24%
Security Updates	1114	16%	7%
Newpackage Updates	1896	6%	13%
Bugs Resolved	12315	14%	
Critical-path Updates	1603	44%	
Approved Critical-path Updates	1560	43%	
Unapproved Critical-path Updates	0	0%	
Updates Received Feedback	5455	34%	36%
+0 Comments	1259	42%	
+1 Comments	11579	48%	
-1 Comments	678	29%	
Unique Authenticated Karma Submitters	1195	15%	
Anonymous Users Submitting Karma	304	50%	2%
Updates Stable Reached Karma Threshold	2396	37%	18%
Updates Reached Minimum Time in Testing Threshold	11200	2%	85%
Testing→Stable without Karma	8259	-4%	64%
Testing→Stable with Negative Karma	33	-11%	0%
Critical-path Updates pushed without Karma	57	-61%	

Bodhi: F20 Take-aways

- 1195 unique users that submitted feedback, or did testing. That is a *huge* number, and it went up 15%! That is a 15% growth in active testers. FAS accounts is a weaker metric for "active contributors" whereas Bodhi users is much higher signal.

- 50% increase in Anonymous Users providing karma on Bodhi updates. This is a *huge* increase in the number of people participating in the project. Coming up with an onboarding strategy for these users will be a subject of future research for the CommOps team.

- Updates that went from Testing->Stable without anyone providing karma is still slightly down from the previous release.

- 2/3rds of all packages remained the same through F20, which was the last non-editions release of Fedora.

fedora

Bodhi Metrics: Future

- Autogenerated Metrics and graphs (as seen in table slides previously)

- Bodhi 1.0 only keeps track of Karma generally on an update, whereas Bodhi 2.0 Release will include more fine-grained information:

  - Karma +1 – "This doesn't break my system"

  - Karma -1 – "This doesn't fix Bug #1337

  - Karma +0 – "Didn't test for Bug #31337

fedora

Fedmsg: Real-time Metrics

fedora

Fedmsg: Real-time Metrics

- Real-time messaging bus capturing most types of contributor activity in Fedora

- Running since late 2012

  - 35 Message Topics (and counting)

  - 29 Million messages Total (and counting)

- Datagrepper provides access to fedmsgs, metrics, graphs

  - Statscache, which will provide computed and cached statistics is currently under development by nyazdani, new RHT Intern this summer

fedora

Fedmsg: Network Topology
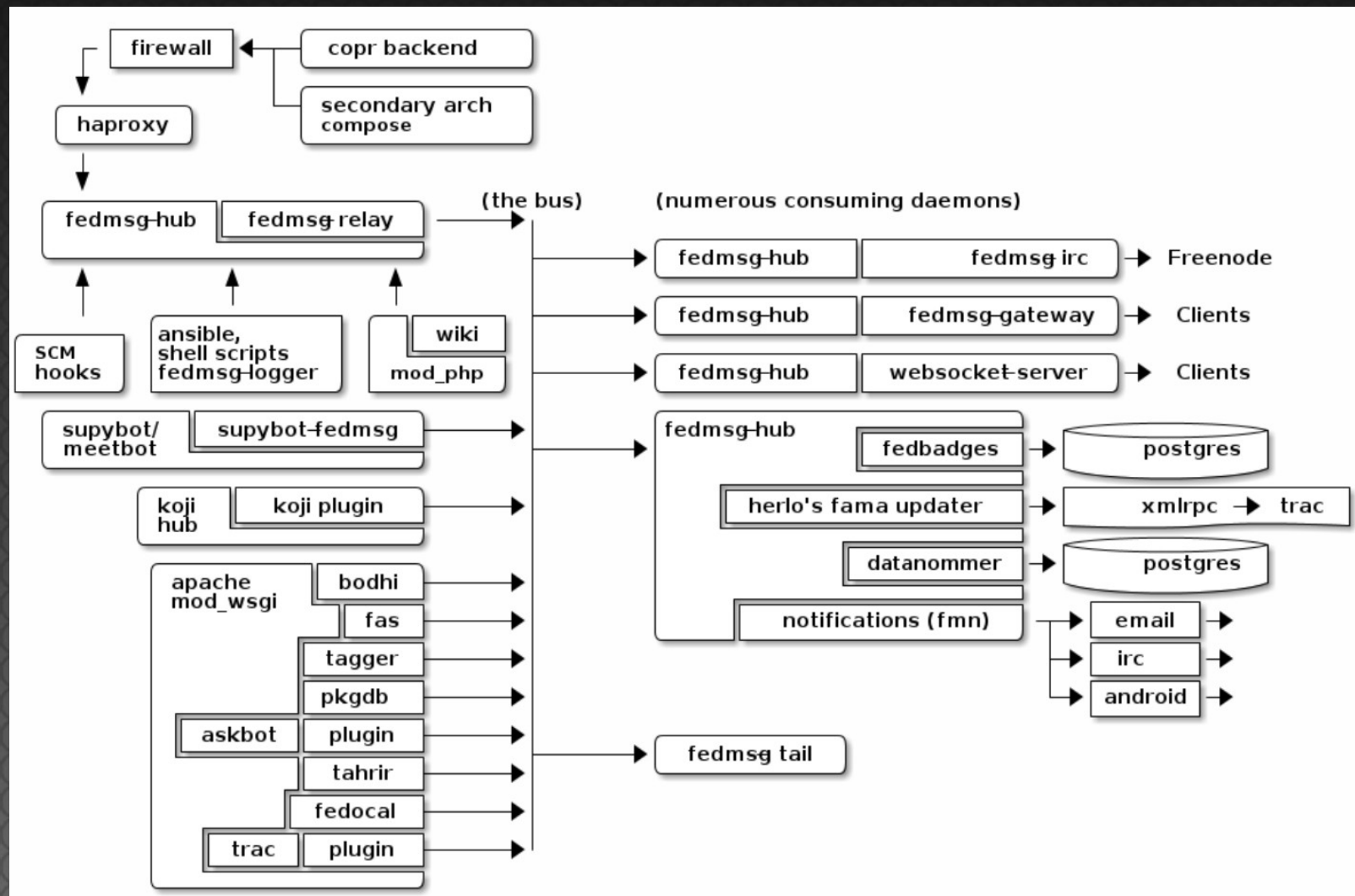
Fedmsg Stats

June 2014-2015	
New FAS Accounts	5096
Blog Posts to Fedora Planet	4858
New Trac Tickets	6480
New Package Tarballs	25971
IRC Meetings	1190
Ask.fp.o Q&A's	26385
Total Fedmsgs	2,329,251
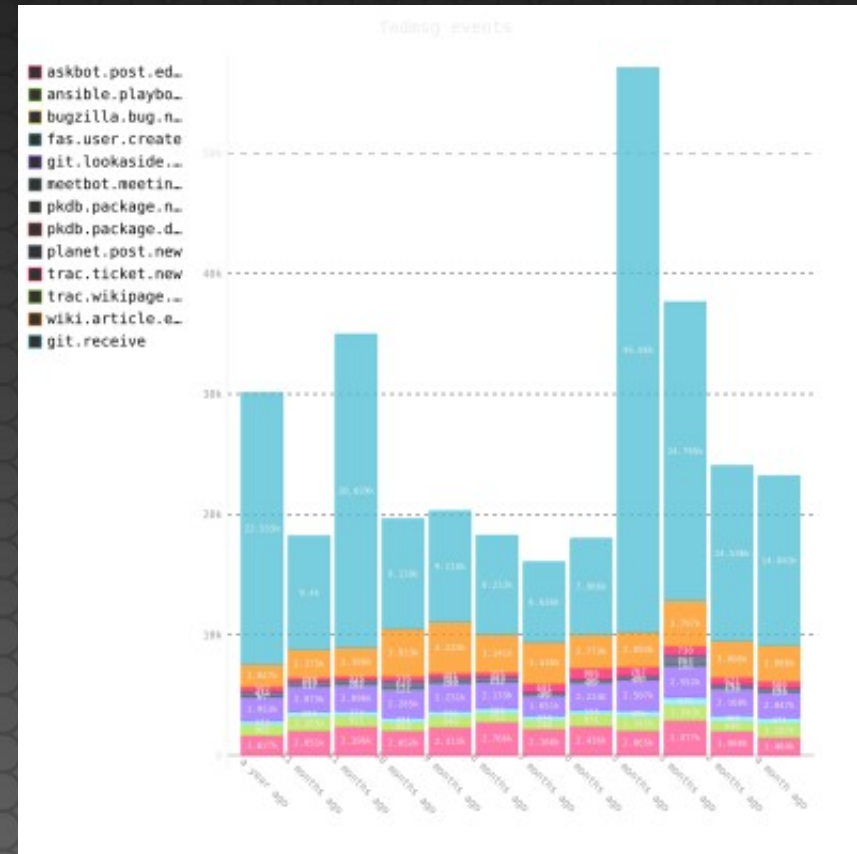
Fedora Tagger: low-barrier contributions

fedora

Fedora Tagger Stats

Total Packages	15772
Total Unique Tags	10842
Packages Without Tags	632
Packages With Tags	15140
Average Tags / Package	3.885
Tags / Package (that have at least one tag)	4.048
Average Votes / Tag	16.153
Average Votes / Package	11.104
Most Votes / Tag	92

Fedor Tagger is an app that "Gamifies" tagging packages with metadata. Low-barrier to entry way to contribute, with an effective webapp at:

http://apps.fedoraproject.org/tagger

fedora™ tagger

perl-parse-yapp
Perl extension for generating and using LALR parsers
0 PEOPLE USE THIS ★★★☆☆
MORE DETAILS...

Do these tags match this package?

parser
library
parse
lib
lalr

➕ Add a new tag.

Search for packages

fedora™

Fedobot

Fedobot: Tweepy + word_cloud

- http://twitter.com/fedobot
- http://github.com/decause/wordcloudbot
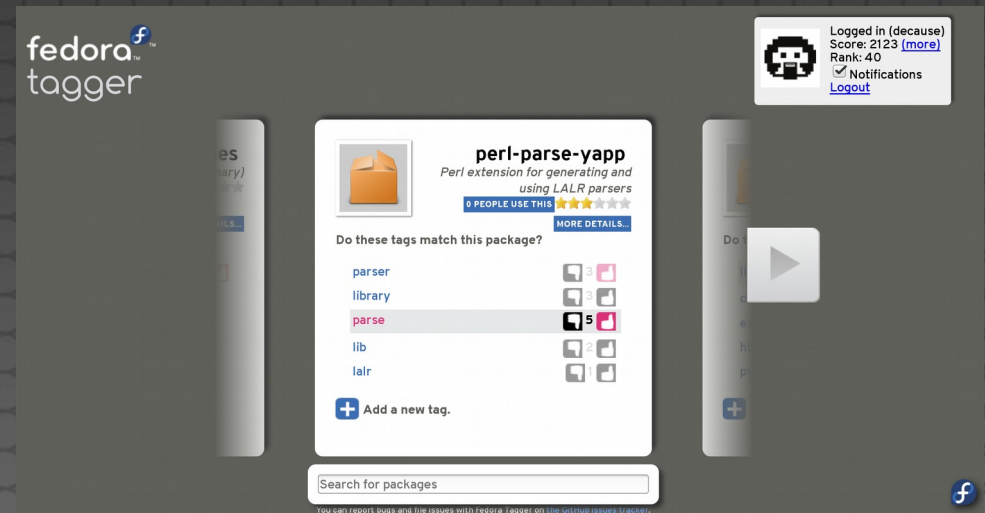
Fedora Hubs

Hubs: Fedora's Online Soul

- Problem

  - The Fedora web presence is very static—all the action is on mailing lists, IRC, and aging wikis.

- Solution

  - The vision is to have a modern, web-based Fedora activity center which feels like the positive, connected energy of Flock or FUDCon, available to all of us at any time.

fedora

Fedora Hubs: Alpha

Fedora Hubs: Alpha

Q&A

fedora