





Hat Making: How Fedora is run and why



Agenda

- What is Fedora?
- Governance
- Changes process
- Release schedule
- Release process
- Building packages
- Q&A

But first – housekeeping!

- Nice things:
 - @FunnelFiasco on Twitter
 - bcotton@fedoraproject.org on email
 - bcotton on Freenode IRC
- Not-nice things: /dev/null
- License: CC BY-SA 4.0 International
- These slides: http://funnelfias.co/oslo2020-slides



But first – disclaimers!

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- This is Fedora's way. It's not necessarily The One True Way $^{\rm TM}$

But first – who is this guy?

- Ben Cotton
 - Senior Program Manager at Red Hat
 - Primarily the Fedora Program Manager (also CentOS Stream)
 - Minor contributor to a handful of open source communities

What is Fedora?

Fedora is a community

- Non-Red Hat employees
- Red Hat employees working on Fedora as their day job
- Red Hat employees working on Fedora outside of their day job

Fedora is group of communities



@FunnelFiasco

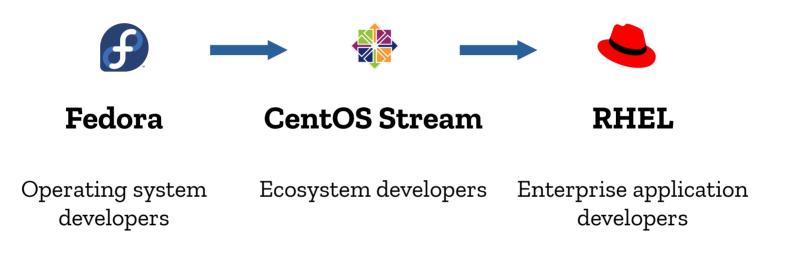
Photo by Sebastian Pena Lambarri on Unsplash

Fedora deliverables



Spins and Labs: KDE, XFCE, LXQT, MATE-Compiz, Cinnamon, LXDE, SOAS, Astronomy, Comp Neuro, Design Suite, Games, Jam, Python Classroom, Security Lab, Robotics Suite

Fedora in the ecosystem



Governance

Fedora Council

- Top-level governance body
- Sets goals, governs finances and trademarks
- Final arbiter of complaints
- Decision making on a consensus model

Fedora Council members

- Fedora Project Leader (FPL) 📥
- Fedora Community Action and Impact Coordinator (FCAIC) 📥
- Two elected members
- Objective leads
- Representatives from FESCo and Mindshare Committee
- Fedora Program Manager (FPgM) 🤩
- Diversity & Inclusion Team representative

Fedora Engineering Steering Committee

- Engineering oversight body
- Approval of technical changes, package disputes, release schedule, etc
- Nine members, all community-elected

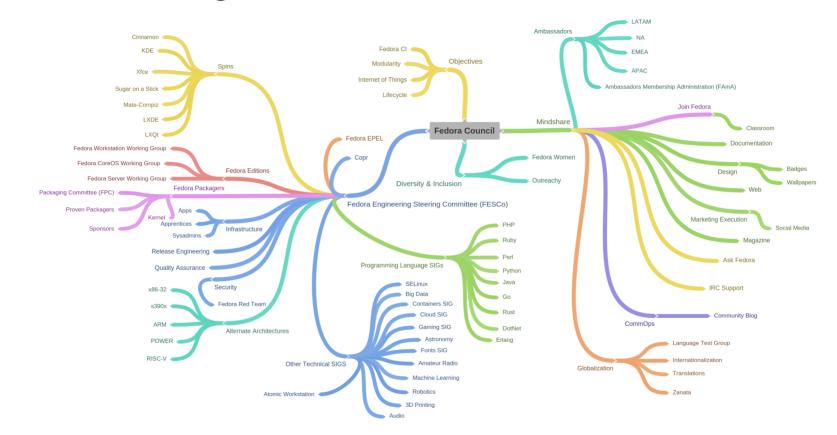
Fedora Mindshare Committee

- Outreach and community oversight body
- Responsible for Ambassadors, marketing, websites, etc
- Membership
 - Two elected
 - Seven selected by component teams
 - FCAIC

Fedora Diversity & Inclusion Team

- What it says on the tin
- Reports to the Fedora Council
- Runs Fedora Women's Day and other events

Fedora org chart



Red Hat (thus IBM)

- Provides financial and material sponsorship
- Generally hands-off

Changes process

Goals

- Communication
- Coordination
- Accountability
- **not** gatekeeping

Changes process

- Two categories: System-Wide and Self-Contained
- Some key elements:
 - Detailed description
 - Contingency plan
 - Upgrade impact
 - Release Engineering check

Life of a Change proposal

- Submitted to the FpgM
- Announced on devel{,-announce} mailing list
- 1 week community comment period
- Submitted to FESCo for approval
- Status evaluated at contingency deadline & completion checkpoints

Release schedule

Fedora release lifecycle

- Major releases every April and October
- No minor releases or (official) respins
- Releases are end of life 4 weeks after N-2 release
- No alpha
- Beta release ~5 weeks before GA
- Rawhide is the rolling development stream

Key release milestones

Name	Start	End	Duration
Change Checkpoint: Proposal submission deadline (Changes requiring infrastructure changes)	Wed 2020-12-16	Wed 2020-12-16	0
Change Checkpoint: Proposal submission deadline (Changes requiring mass rebuild)	Tue 2020-12-29	Tue 2020-12-29	0
Change Checkpoint: Proposal submission deadline (System Wide Changes)	Tue 2020-12-29	Tue 2020-12-29	0
Change Checkpoint: Proposal submission deadline (Self Contained Changes)	Tue 2021-01-19	Tue 2021-01-19	0
Mass Rebuild: RPMs first, then modules	Wed 2021-01-20	Tue 2021-02-09	20
Keepalive deadline for spins	Wed 2021-01-20	Wed 2021-01-20	0
Software String Freeze Reached	Tue 2021-01-26	Tue 2021-01-26	0
Change Checkpoint: Completion deadline (testable)	Tue 2021-02-09	Tue 2021-02-09	0
Branch Fedora 34 from Rawhide	Tue 2021-02-09	Tue 2021-02-09	0
Post-branch Freeze (end date approximate)	Tue 2021-02-09	Fri 2021-02-12	3
Bodhi updates-testing activation point	Tue 2021-02-23	Tue 2021-02-23	0
Change Checkpoint: 100% Code Complete Deadline	Tue 2021-02-23	Tue 2021-02-23	0
Beta Freeze (starts at 1400 UTC)	Tue 2021-02-23	Tue 2021-03-16	21
Beta Release Public Availability	Tue 2021-03-16	Tue 2021-03-23	7
Beta Release (Preferred Target)	Tue 2021-03-16	Tue 2021-03-16	0
Beta Target date #1	Tue 2021-03-23	Tue 2021-03-23	0
Final Freeze (starts at 1400 UTC)	Tue 2021-04-06	Tue 2021-04-20	14
Final Release Public Availability (GA)	Tue 2021-04-20	Tue 2021-04-27	7
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Fedora 32 EOL auto closure	Tue 2021-05-18	Tue 2021-05-18	0

Release process

Blockers & Freeze Exceptions

- Not all deliverables are release-blocking
- Release criteria define requirements, but we can make exceptions
- Weekly blocker review meetings plus asynchronous voting
- Freeze is to give QA a fixed target.
 - Exceptions to fix blockers and other significant issues (particularly if it affects live media)
- We also have a Prioritized Bugs process for important-but-notblocking bugs

Go/no-go decision

- Check to evaluate if all blockers have been fixed (or waived) and if the Release Candidate compose is sufficiently tested
- Push back a week if not (although sometimes we'll try again the next day if there's a single issue to fix)
- We don't re-run a compose if a non-blocking deliverable didn't build

Bug tracking

Bugzilla

- Bug tracker for Fedora components
- We branch bugs when we branch the code
- Close EOL bugs one month after the N-2 release (~13 months)

Building packages

dist-git

- Pagure instance at src.fedoraproject.org
- "provenpackagers" can step in and make changes
- Some have discussed moving to a source-git model, but we're not there yet

Build and updates

- Build system: Koji
 - Copr is available for unofficial builds
- Updates: Bodhi

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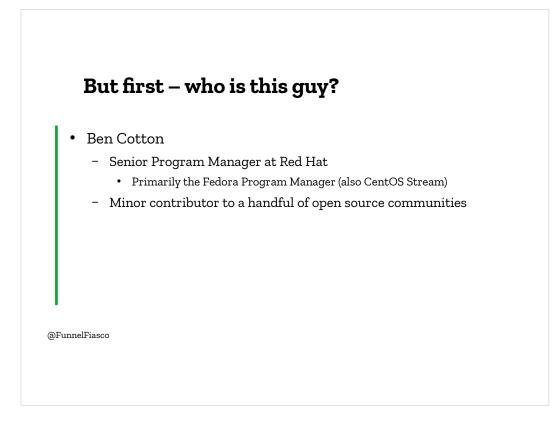
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https://fedoraproject.org/wiki/User:Bcotton

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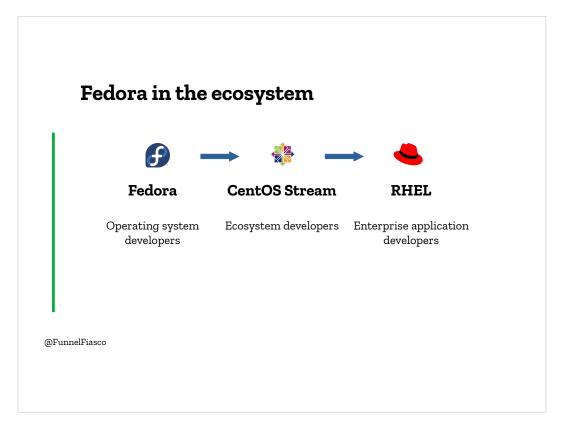


@FunnelFiasco

Photo by Sebastian Pena Lambarri on Unsplash



https://getfedora.org https://spins.fedoraproject.org https://labs.fedoraproject.org



Governance



For more information, see https://docs.fedoraproject.org/en-US/council/

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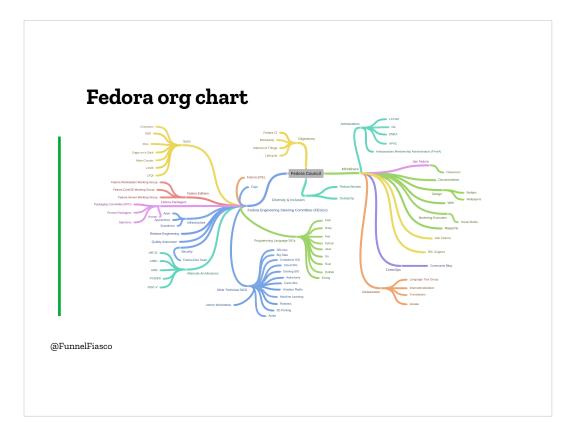
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For more information, see https://docs.fedoraproject.org/en-US/program_mana gement/changes_policy/

http://funnelfias.co/devconfcz2019-video1

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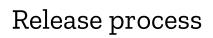
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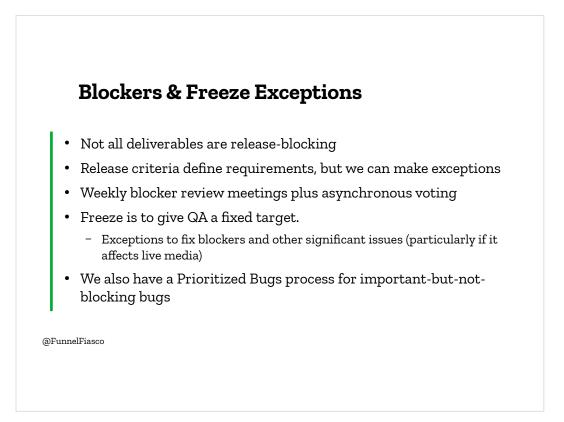
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Blocker bug process:

https://fedoraproject.org/wiki/QA:SOP_blocker_bug_process

Freeze Exception process:

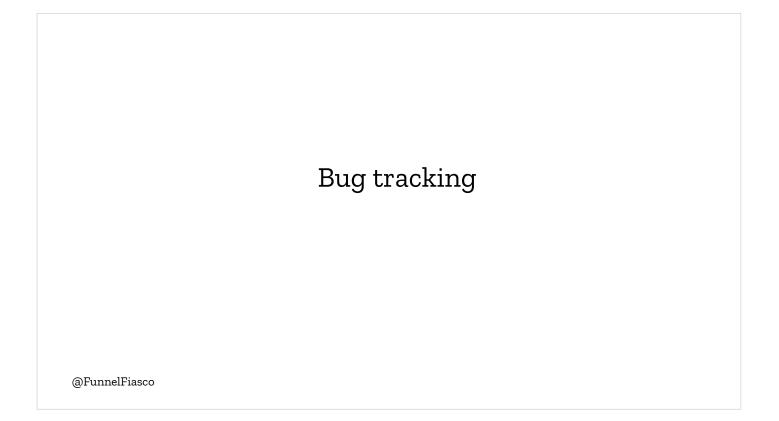
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Prioritized Bug process:

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