

Upstream and downstream, best friends forever?

František Lachman, Product Owner of Packit Project





Which Linux distribution do you use?

45 responses

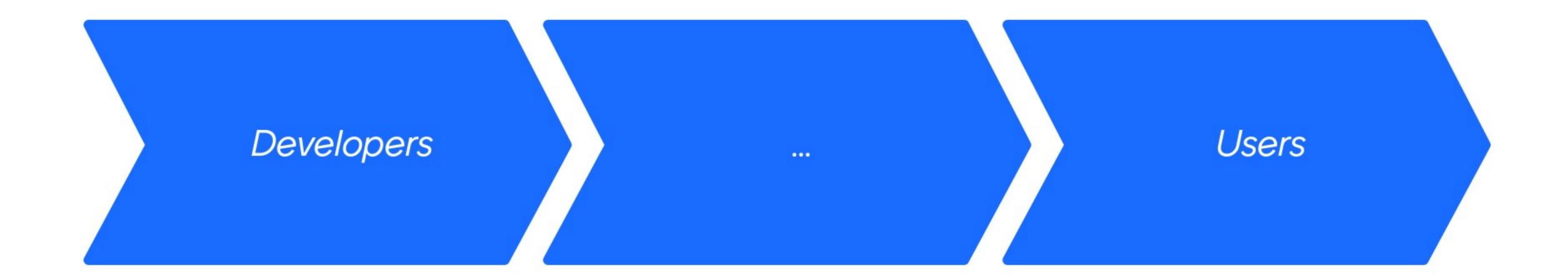








Streams?





Streams?

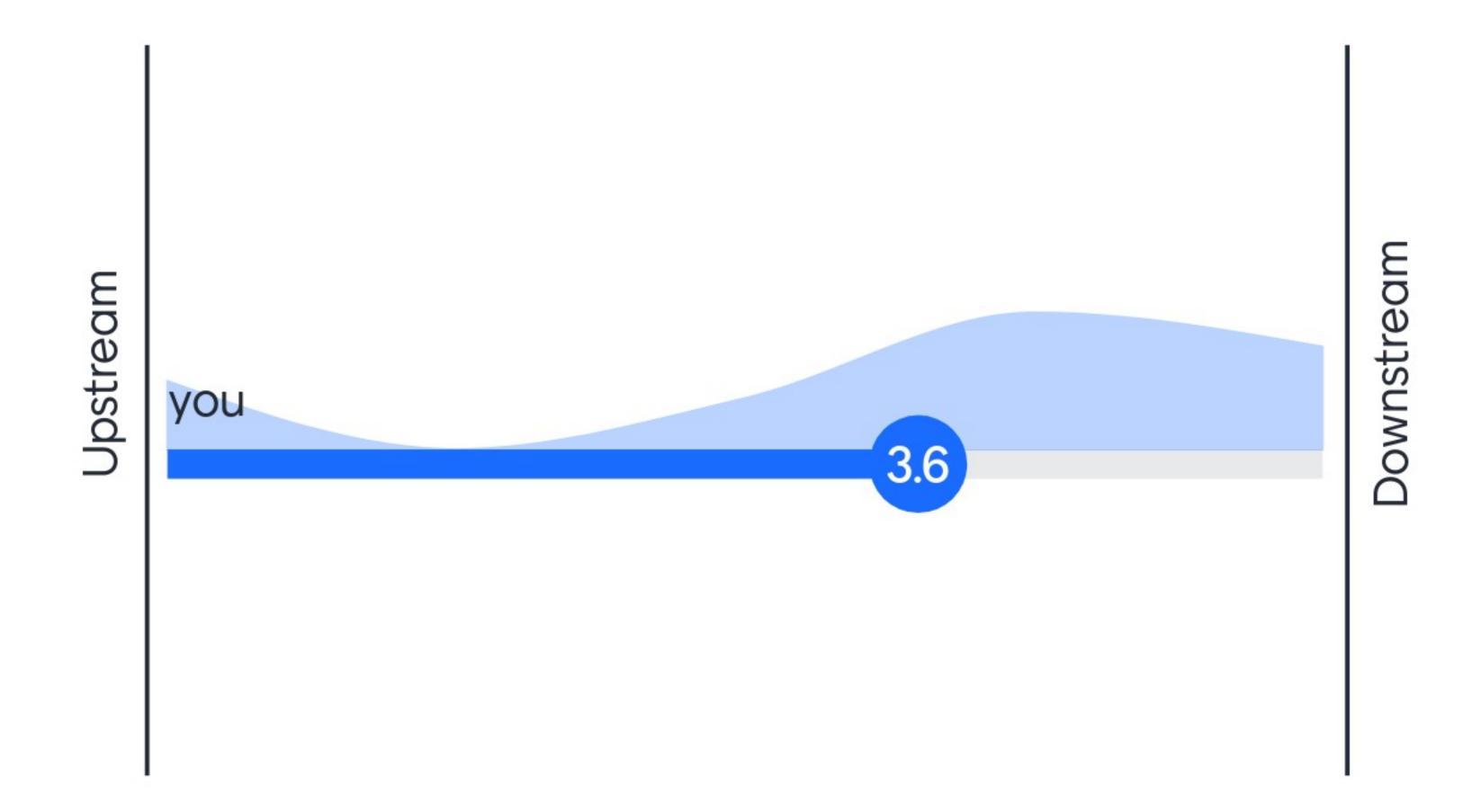




- June Destream git forge (e.g. GitHub/GitLab)
- → Downstream ~ Linux distribution (e.g. Fedora)



Which one is closer to you?









Let's make upstream and downstream closer together!

- František, 5 years ago



Hey, upstream developers, we have this nice Fedora integration for your projects!

- František, 4 years ago



No thanks, I don't care about distributions...

- Some developer, 4 years ago







Availability

Software adoption

Phoronix articles

Without distributions they have no users

people depend on their code! their code is not used except by downstream!

So that their software reaches the users

For their benefits!

User feedback and bug eeports









Get feedback on how the product is actually used

Reaching users

How can you build without a downstream

Distribution users themselves

Working together

ease reaching endusers

Money

they get bugfixes









Growing community

They have not packaged their project yet.

feedback

Bugs in downstream makes bad reputation for a project in upstream

Feedback

People don't use shitty tools

Revenue

If upstreams think distros are a pain they should try dealing with users instead;)









anti-monopoly

Hacker news bragging rights

Don't duplicate work

They need something to package, right?

Community effort

not carry patches downstream

Ensuite continiuty of thé project to package

Only rolling releases will care (and they are right)Regular releases delude themselves that staying still is a good idea









make enterprise Linux less painful





Hey, maintainers, we have this nice service for you!

- František, 4 years ago





I don't care about upstream. They just produce new bugs I need to fix.

Some maintainer, 4 years ago



Why maintainers might want to care about upstream?

Users want new releases

Collaboration

Anticipate breaking changes

Users complaining about missing upgrades

Ease of packaging

new features

Get fixes for some stuff which is broken

Bugfixes for everyone











Why maintainers might want to care about upstream?

do they want to write the code themselves? they can just pin the dep if they don't care!

If a bug is reported and nobody is around to read the report, is it actually a bug?

Don't duplicate work

Correct declaration of dependencies

Security fixes

Can you be a maintainer without an upstream?

Availability

Increase stability









Why maintainers might want to care about upstream?

Orient development to make their lives easier

To not have to maintain patches downstream

Keeping close to upstream is easier than maintaining it yoursef

efficiency!

How can you not?









Don't we want to help them?



Tips & Tricks



When things go wrong, I don't want to look into the logs I don't understand.

Upstream developer



downstream must have a reliable mechanism for filing bugs!

If we have to suffer it, so do they

I shouldn't read twenty irrelevant logs to find the one relevant log

Use cool logging libraries, i guess

Make a snap of your application then #troll

downstream should care about presenting their output so it does not force upstream to learn their specific output!

i work in support that's my job:/

downstream can be a monopolist -- antitrust!









When things go wrong, I don't want to look into the logs I don't understand.

- → Better logs (haha).
- → logdetective.com
- Notifications.
- Clear expectations.



Just a single distribution? Why can't you support all the distributions?

Upstream developer



Copr

Differing packaging formats

Who says we dont? We use Flatpak

Use flatpak lol

some of the distributions are monopolists and don't want to make it easy!

Snap TM

a lot of works

Tarballs FTW











Build a standalone static binary

library dependencies are a mess. mhhh yummy downstream patches

Just support thé Lost popular ones

Use OBS, it supports all the distros

Docker

Flatpak is a distribution

Teach users about our superior distro

Provide generic install instructions, and let the distros figure it out











Containerise rm

Are u kidfing? Il have petabytes of free!









Just a single distribution? Why can't you support all the distributions?

- ... all are not possible
- → Distro-specific terms.
- Easy and realiable testing.
- Easy onboarding.



I don't want to have more files in the repository.

Upstream developer



Don't be lazy

Then why did you use Java

package managers should not also be build systems!

Just use somebody else's lol

Use email, man

Then reuse an existing file

decouple downstream config from upstream!

Try to get things standard











.config for git repos

Overlay downstream files at build/test time

understandable my 100KB HDD would fill up too Everything in one file:)









I don't want to have more files in the repository.

- → Just one file.
- → Links for more content.
- Custom locations
- Global configuration.



I have my own automation and it works well.

Maintainer



Automation is a way to break things in a large scale

I also have my own automation and it works well

Yeah greatest one

Distro Cl catches other classes of bugs

Use Ansible Imao

Works in my machine

Good for you

other automation should work with yours using standard protocols!









I have my own automation and it works well.

- Xiller feature.
- Easy onboarding. Workshops.
- Maintenance.
- Work on the right things!



Your automation breaks the rules!

Maintainer







whose rules?

Standardization go brrr

let's figure out some rules we both agree on! Standard of today are the legacy of Tomorrow

I trust the bot more than any human

Rules are meant to be broken. Follow mine.

Talk. Be kind

monopolists do this a lot









Rules. Mamy break innovation





Your automation breaks the rules!

- Be open for suggestions.
- Don't ignore the issues.
- Let the user decide.
- → Have the same permissions as a regular user.



Your automation does it differently then I am used to.

- Maintainer

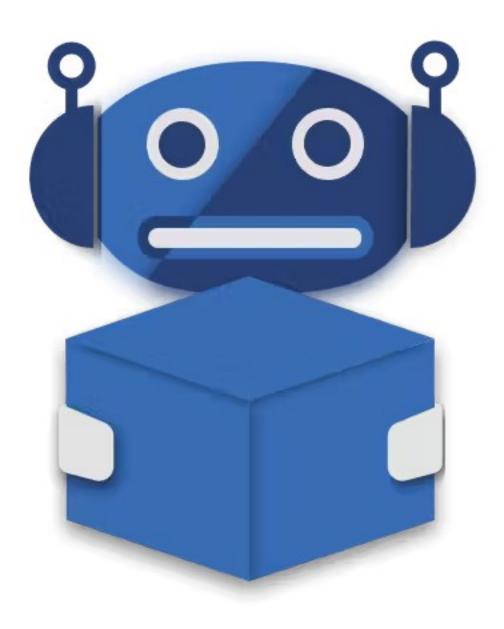




Your automation does it differently then I am used to.

- → A config option (https://xkcd.com/1172/).
- User-defined hooks/actions.
- -> Respond to the first issue/question is crutial.





Thank you

- František Lachman, Red Hat
- → flachman@redhat.com
- → Packit Project: packit.dev
- → <u>@packit@fosstodon.org</u>





