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csomh
/'tʃomha:/'

Using source-git to maintain packages in Fedora

Agenda

about dist-git

the concept of source-git

Packit

What is dist-git?

What is dist-git?

[Dist Git Proposal](#)

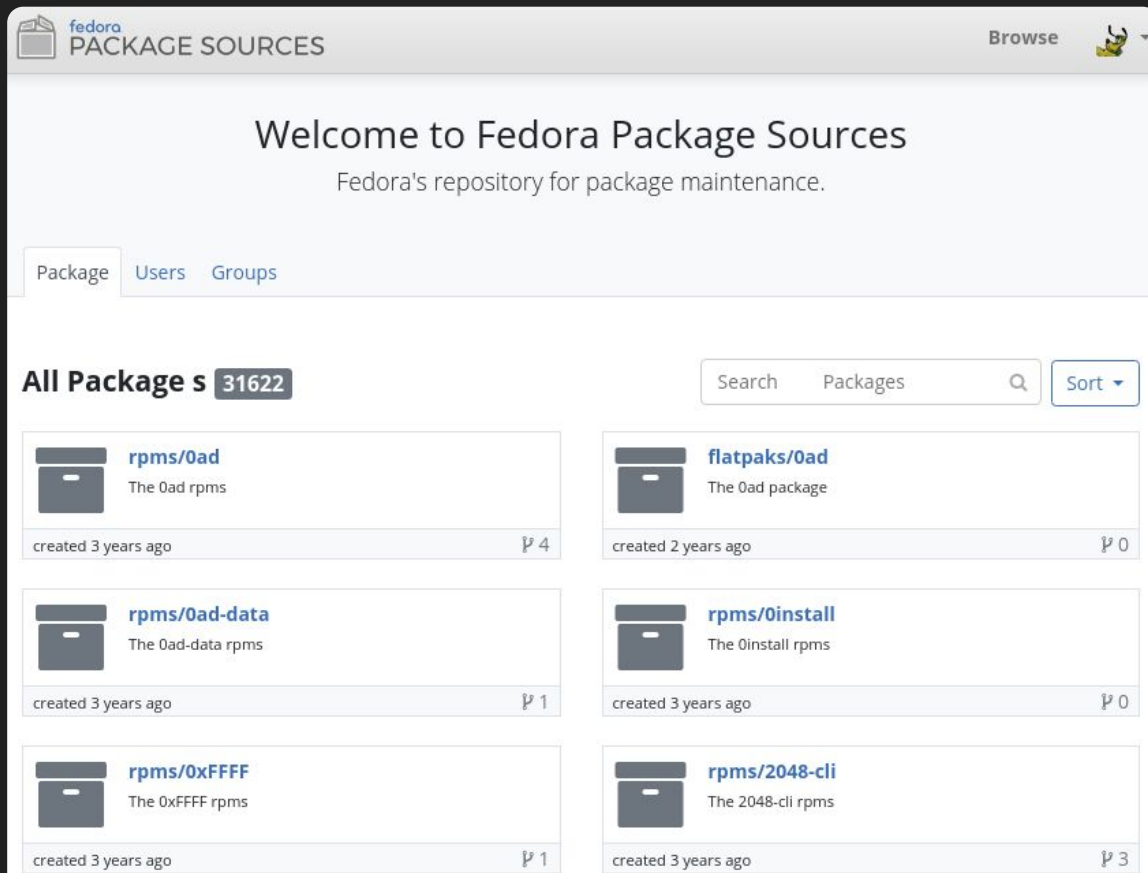


Overview

This proposal concerns the desire to replace Fedora's package source control, currently based on CVS, with git, and to improve the developer workflow at the same time.

What is dist-git?

src.fedoraproject.org



The screenshot shows the 'Fedora PACKAGE SOURCES' web interface. At the top, there's a navigation bar with the Fedora logo, the text 'PACKAGE SOURCES', a 'Browse' button, and a user profile icon. Below the navigation bar, a large heading reads 'Welcome to Fedora Package Sources' with the subtitle 'Fedora's repository for package maintenance.' Underneath, there are tabs for 'Package', 'Users', and 'Groups'. The main content area is titled 'All Packages 31622'. It features a search bar with the text 'Search Packages' and a 'Sort' dropdown menu. The page displays a grid of six package entries, each with a package icon, name, description, creation time, and a version number. The packages shown are: 'rpms/0ad' (The 0ad rpms, created 3 years ago, version 4), 'flatpaks/0ad' (The 0ad package, created 2 years ago, version 0), 'rpms/0ad-data' (The 0ad-data rpms, created 3 years ago, version 1), 'rpms/0install' (The 0install rpms, created 3 years ago, version 0), 'rpms/0xFFFF' (The 0xFFFF rpms, created 3 years ago, version 1), and 'rpms/2048-cli' (The 2048-cli rpms, created 3 years ago, version 3).

fedora
PACKAGE SOURCES

Browse


Welcome to Fedora Package Sources


Fedora's repository for package maintenance.


Package Users Groups


All Packages 31622


Search Packages Sort


 **rpms/0ad**
The 0ad rpms
created 3 years ago 4

 **flatpaks/0ad**
The 0ad package
created 2 years ago 0

 **rpms/0ad-data**
The 0ad-data rpms
created 3 years ago 1

 **rpms/0install**
The 0install rpms
created 3 years ago 0

 **rpms/0xFFFF**
The 0xFFFF rpms
created 3 years ago 1

 **rpms/2048-cli**
The 2048-cli rpms
created 3 years ago 3

What is dist-git?

src.fedoraproject.org

The screenshot shows the Fedora Package Sources web interface for the `rpms / firefox` repository. The interface includes a top navigation bar with the Fedora logo, the text "PACKAGE SOURCES", a "Browse" button, and a user profile icon. Below the navigation bar, there are tabs for "Source", "Issues", "Pull Requests" (with a count of 2), and "Stats". The "Source" tab is active, showing a list of files for the `f32` branch. On the left side, there is a sidebar with navigation links for "Overview", "Files", "Commits", "Branches", "Forks", and "Releases". Below these links, there is a "Monitoring status:" section with a "Disabled" button. At the bottom of the sidebar, there is a "Bugzilla Assignee:" section with entries for "Fedora: gecko-maint" and "EPEL: gecko-maint". The main content area displays a list of files for the `f32` branch, including `.gitignore`, `Bug-1610814-Fix-NEON-compile-error-with-gcc-and-RGB.patch`, `bug1375074-save-restore-x28.patch`, `build-aarch64-skia.patch`, `build-arm-libaom.patch`, `build-arm-libopus.patch`, `build-arm-wasm.patch`, `build-cacheFlush-missing.patch`, `build-cubeb-pulse-arm.patch`, `build-disable-elfhack.patch`, `build-disable-multijobs-rust.patch`, and `build-icu-big-endian.patch`.

fedora PACKAGE SOURCES Browse

rpms / firefox Open PR Fork Clone

</> Source Issues Pull Requests 2 Stats

Overview Files Commits Branches Forks Releases

Monitoring status: Disabled

Bugzilla Assignee: Fedora: gecko-maint EPEL: gecko-maint

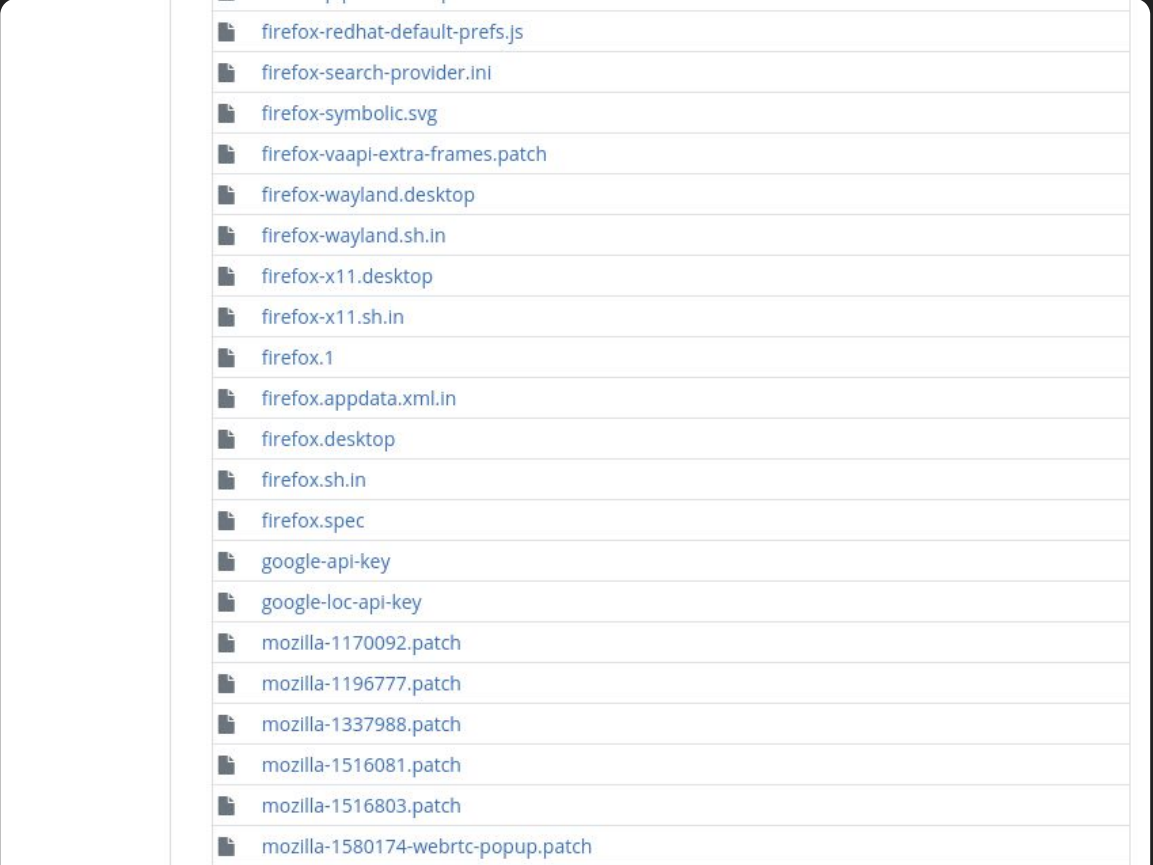
Files Branch: f32






















f32

- .gitignore
- Bug-1610814-Fix-NEON-compile-error-with-gcc-and-RGB.patch
- bug1375074-save-restore-x28.patch
- build-aarch64-skia.patch
- build-arm-libaom.patch
- build-arm-libopus.patch
- build-arm-wasm.patch
- build-cacheFlush-missing.patch
- build-cubeb-pulse-arm.patch
- build-disable-elfhack.patch
- build-disable-multijobs-rust.patch
- build-icu-big-endian.patch

What is dist-git?

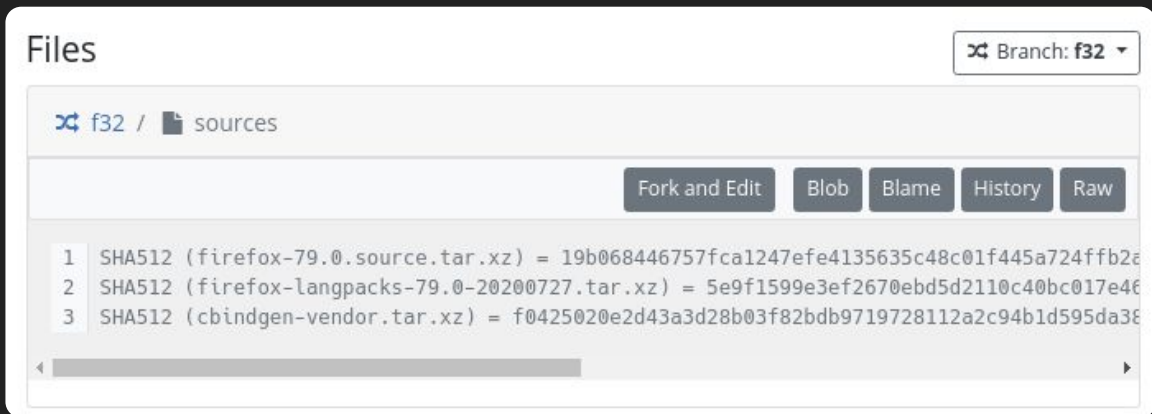
src.fedoraproject.org

A screenshot of a file browser interface showing a list of files in a dist-git repository. Each file entry is preceded by a small icon representing the file type. The files listed are: firefox-redhat-default-prefs.js, firefox-search-provider.ini, firefox-symbolic.svg, firefox-vaapi-extra-frames.patch, firefox-wayland.desktop, firefox-wayland.sh.in, firefox-x11.desktop, firefox-x11.sh.in, firefox.1, firefox.appdata.xml.in, firefox.desktop, firefox.sh.in, firefox.spec, google-api-key, google-loc-api-key, mozilla-1170092.patch, mozilla-1196777.patch, mozilla-1337988.patch, mozilla-1516081.patch, mozilla-1516803.patch, and mozilla-1580174-webrtc-popup.patch.

	firefox-redhat-default-prefs.js
	firefox-search-provider.ini
	firefox-symbolic.svg
	firefox-vaapi-extra-frames.patch
	firefox-wayland.desktop
	firefox-wayland.sh.in
	firefox-x11.desktop
	firefox-x11.sh.in
	firefox.1
	firefox.appdata.xml.in
	firefox.desktop
	firefox.sh.in
	firefox.spec
	google-api-key
	google-loc-api-key
	mozilla-1170092.patch
	mozilla-1196777.patch
	mozilla-1337988.patch
	mozilla-1516081.patch
	mozilla-1516803.patch
	mozilla-1580174-webrtc-popup.patch

What is dist-git?

lookaside cache



What is dist-git?

collaboration

#18 Add support for PipeWire 0.3

Merged 3 months ago by xhorak. Opened 3 months ago by jgrulich.

rpms/ jgrulich/firefox

firefox-pw03

Into

master

Comments

Files Changed 3

Commits 1

Patch

firefox-pipewire-0-2.patch

file renamed

file was moved with no change to the file

firefox-pipewire-0-3.patch

file added +821

@@ -0,0 +1,821 @@

+ diff --git a/config/system-headers.mozbuild b/config/system-headers.mozbuild

+ index 2081d0c683a4..641133bf1ea4 100644

+ --- a/config/system-headers.mozbuild

+ +++ b/config/system-headers.mozbuild

+ @@ -314,6 +314,7 @@ system_headers = [

+ + 'Gestalt.h',

+ + 'getopt.h',

+ + 'gio/gio.h',

+ + 'gio/gunixfdlist.h',

+ + 'glibconfig.h',

+ + 'glib.h',

+ + 'glib-object.h',

What is source-git?

What is source-git?

[“exploded tree” packages](#)

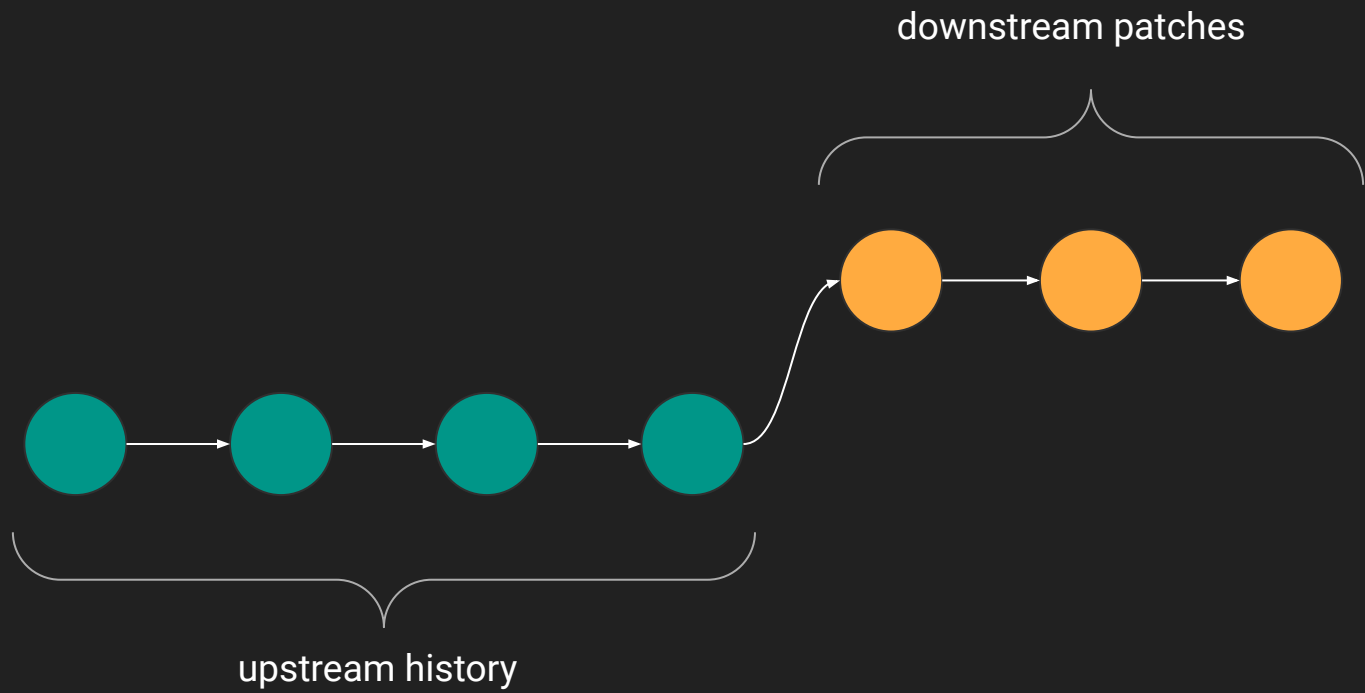


SCMSig Agenda

Topic of the day - can we make "exploded tree" packages work?

What is source-git?

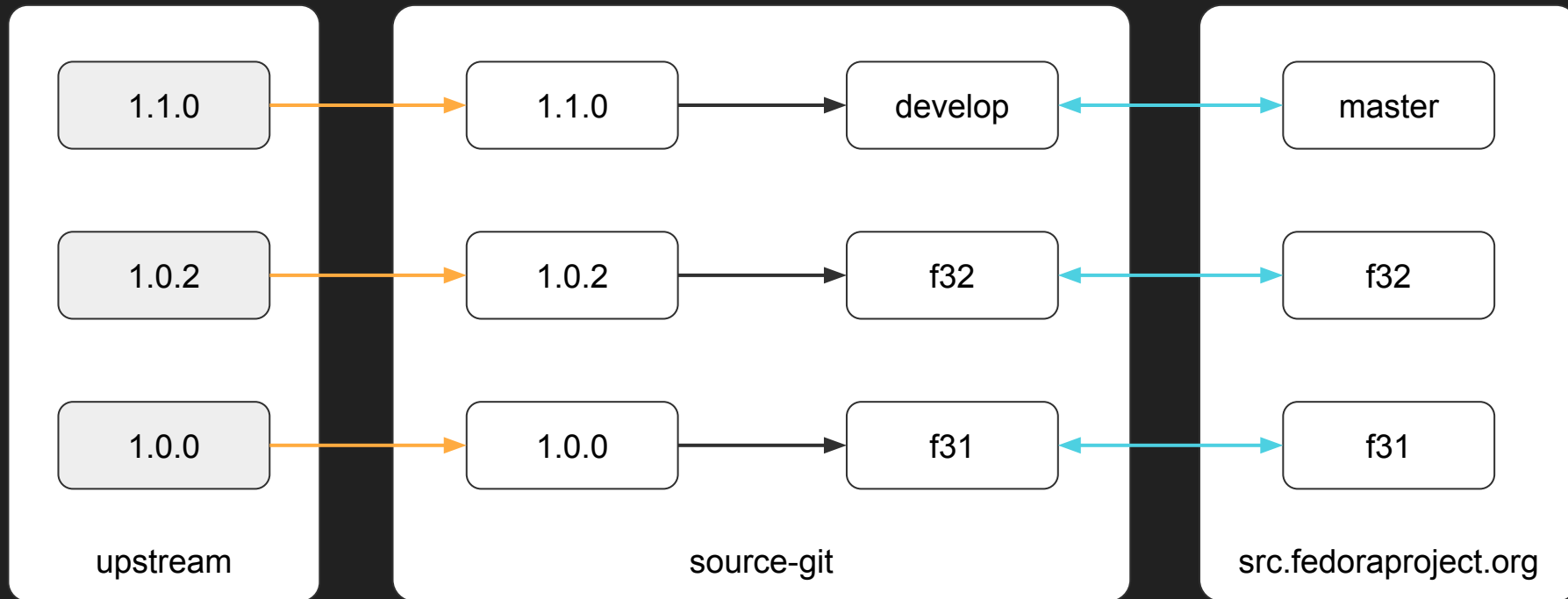
a fork of upstream in which
downstream/distribution patches are
commits



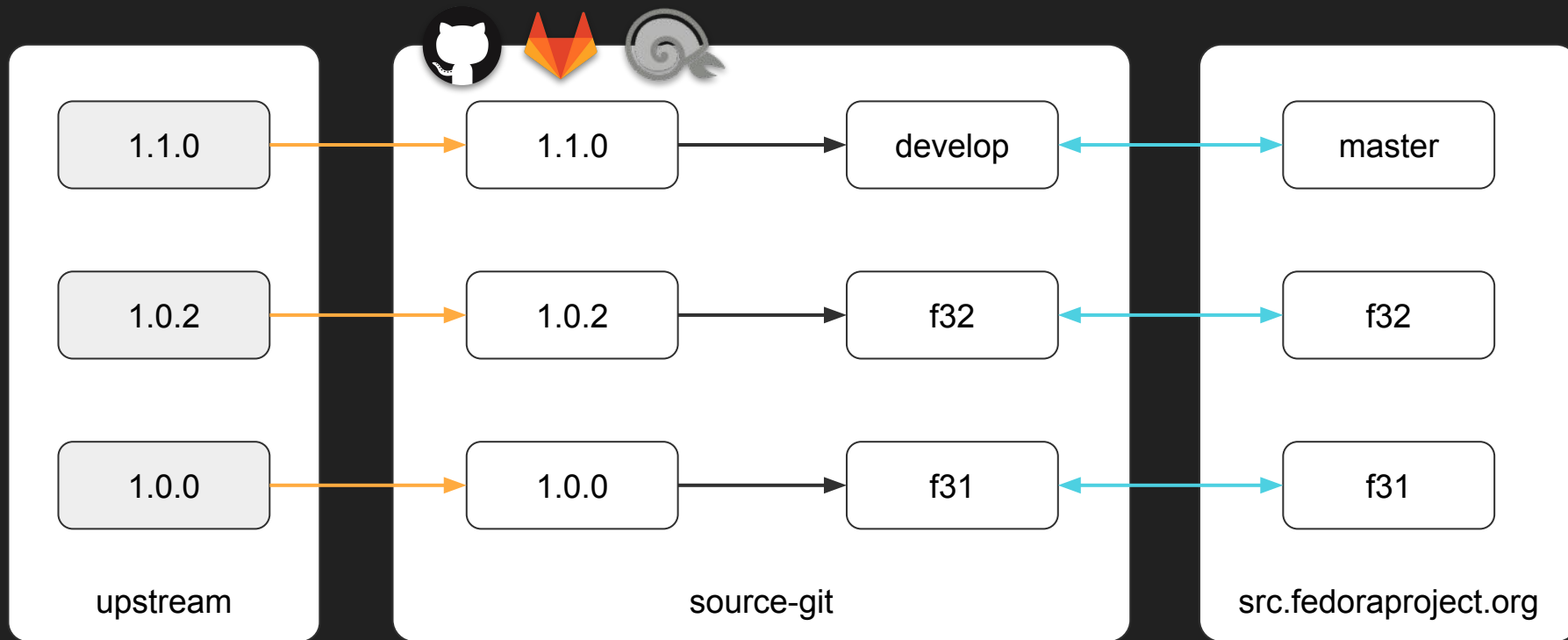
What is source-git?

the place for creative and interesting work

What is source-git?



What is source-git?



Wait...

I'm already doing something like this!



Tooling

git

```
$ git pull ...
```

```
$ git cherry-pick ...
```

```
$ git branch ...
```

```
$ git rebase ...
```

Packit

```
$ sudo dnf install packit
```

```
$ packit --help
```

```
Usage: packit [OPTIONS] COMMAND [ARGS]...
```

Integrate upstream open source projects into Fedora operating system.

Options:

- | | |
|--------------------------------|--|
| <code>-d, --debug</code> | Enable debug logs. |
| <code>--fas-user TEXT</code> | Fedora Account System username. |
| <code>-k, --keytab TEXT</code> | Path to FAS keytab file. |
| <code>--dry-run</code> | Do not perform any remote changes (pull requests or comments). |
| <code>--version</code> | Show the version and exit. |
| <code>-h, --help</code> | Show this message and exit. |



Commands:

build	Build selected upstream project in Fedora.
copr-build	Build selected upstream project in COPR.
create-update	Create a bodhi update for the selected upstream...
init	Generate new packit config.
local-build	Create RPMs using content of the upstream...
propose-update	Release current upstream release into Fedora...
push-updates	Find all Bodhi updates that have been in testing for...
srpm	Create new SRPM (.src.rpm file) using content of the...
status	Display status.
sync-from-downstream	Copy synced files from Fedora dist-git into upstream...
validate-config	Validate PackageConfig validation.

Packit-as-a-Service

[GitHub Application](#)






 **lachmanfrantisek** approved these changes 5 hours ago [View changes](#)

lachmanfrantisek left a comment


Member + 😊 ...



Rebase, please.



  Check



All checks have passed  826ece8



10 successful checks

 dhodo


 **packit/rpm-build-fedora-31-x86_64** — RPMs were... [Details](#)

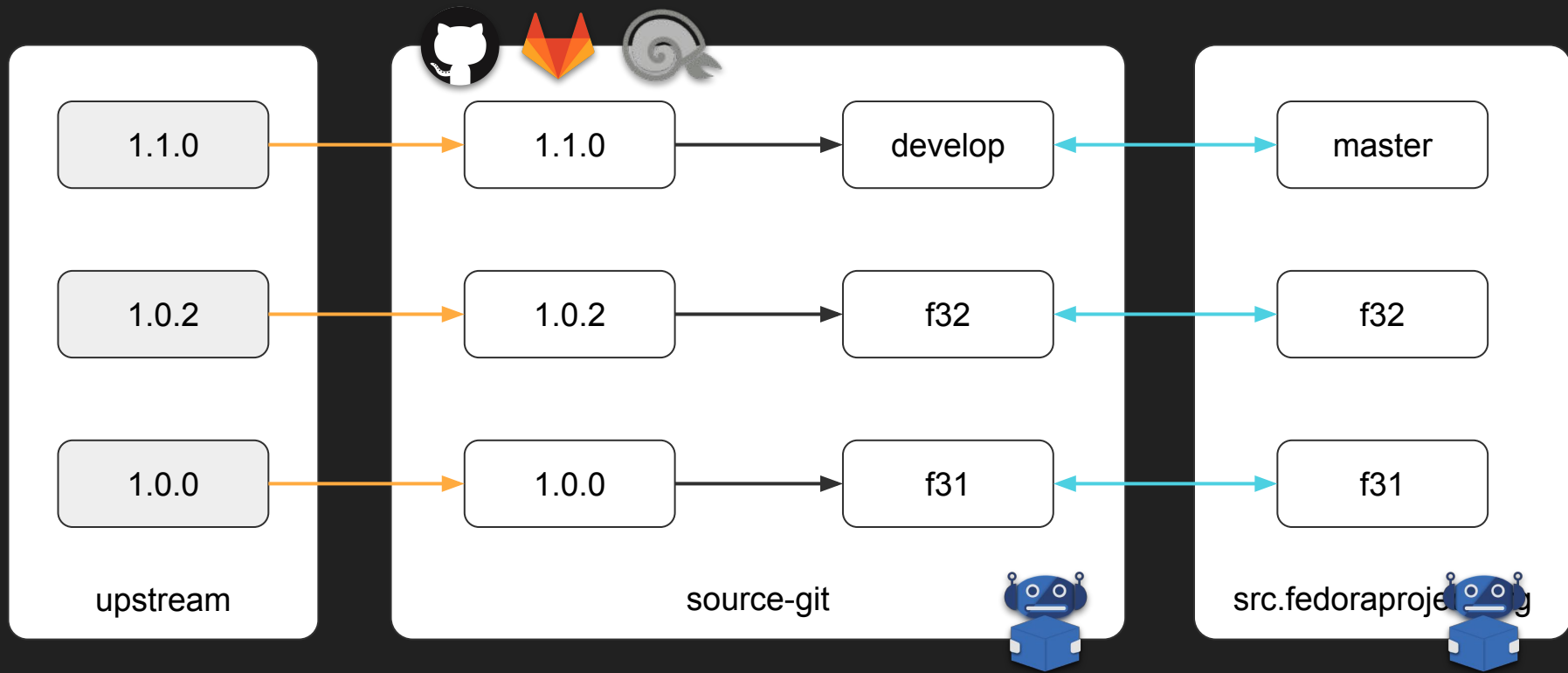
 **packit/rpm-build-fedora-rawhide-x86_64** — RPM... [Details](#)

 **packit/testing-farm-fedora-30-x86_64** — All tests ... [Details](#)

 **packit/testing-farm-fedora-31-x86_64** — All tests ... [Details](#)

5 hours ago

 **softwarefactory**
Build succeeded



Packit-as-a-Service



build PRs/releases/branches in Copr

test builds with [Testing Farm](#)

propose releases to dist-git



and



support in progress

Wanna try out?

packit.dev
#packit

Thank you!



packit.dev

