FEDORA LOVES PYTHON

the distro & the language ecosystem

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A CONCRETE EXAMPLE

FEDORA	Distro
PYTHON	Ecosystem
RPM	Distro packages
DNF	Package manager
WHEEL	Upstream format
PIP	Upstream Installer

A FEDORA PACKAGER'S ROLE

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- Produces RPMs

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  (specfile copy & paste)

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- Helps w/ specialized tasks
  - Legal review
  - Security response
  - Integration **!**

TOO FAST — TOO SLOW

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FAST

App
Django
Python
libc
Kernel

SLOW

TOO FAST — TOO SLOW

FAST

App
Django
Python
libc
Kernel

←Python dev

SLOW

TOO FAST — TOO SLOW

FAST

App ←Fedora user
Django ←Py web dev
Python ←Python dev
libc ←Core dev
Kernel ←GCC dev

SLOW

TOO FAST — TOO SLOW

FAST

SLOW

TOO FAST — TOO SLOW

FAST
Exciting

SLOW
Boring

TOO FAST — TOO SLOW

FAST
Exciting
Cherry-picked

SLOW
Boring
Prepackaged

TOO FAST — TOO SLOW

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Exciting

Cherry-picked

Co-maintained

SLOW

Boring

Prepackaged

Taken for Granted

TOO FAST — TOO SLOW

FAST	**SLOW**
Exciting	Boring
Cherry-picked	Prepackaged
Co-maintained	Taken for Granted
Involvement	Trust

NOT JUST A SPECTRUM

FAST

App

JS minifier

Django

Babel

Python

Node.js

libc

Kernel

SLOW

COHESIVE WHOLE

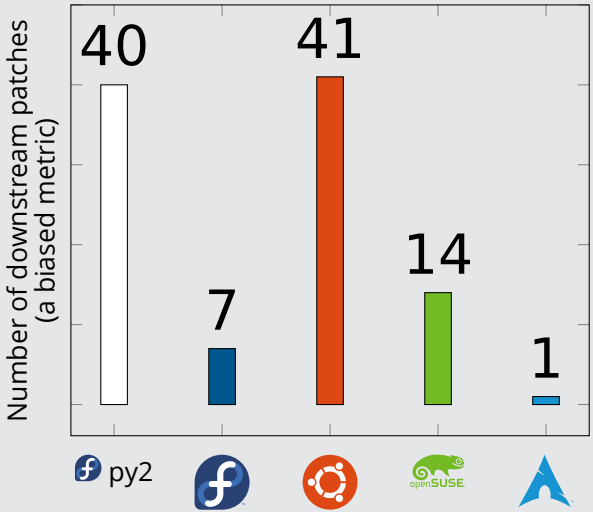
HOW FEDORA LOVES PYTHON

- Patches are issues
- All the pythons
- Pre-release rebuilds

PATCHES ARE ISSUES

A downstream patch
is like
an open bug.

PATCHES ARE ISSUES



PYTHONS IN FEDORA 31

- CPython 2.6
- CPython 2.7
- CPython 3.4
- CPython 3.5
- CPython 3.6
- CPython 3.7 + **LIBRARIES**
- CPython 3.8
- CPython 3.9-a1
- PyPy 2
- PyPy 3
- MicroPython
- Jython **?**

PRE-RELEASE REBUILDS

All Python packages are rebuilt before Fedora's Python is updated.

Starting with pre-releases.

PRE-RELEASE REBUILDS

[Fedora has] been historically very helpful in early finding regressions not only in core Python but also in third-party libraries, helping moving the community forward.

–Lukasz Łanga

Python 3.8 release manager

QUESTIONS

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