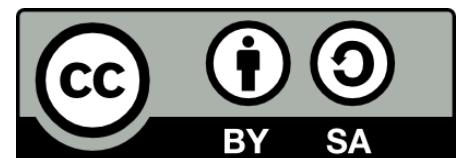




ZERO INSTALL

**A DIFFERENT APPROACH TO PACKAGE MANAGEMENT
GPN 11 PRESENTATION – BASTIAN EICHER**





What is Zero Install?



Install

- Without root privileges
- Without side-effects



Distribute

- Decentralized, regular websites
- Directly upstream from developer



Security

- GnuPG signatures
- Sha-256 hashes



Why use Zero Install?



Install

- Install own software on university PCs
- Retain profile when roaming



Distribute

- Publish own software
- Updates without waiting for distribution

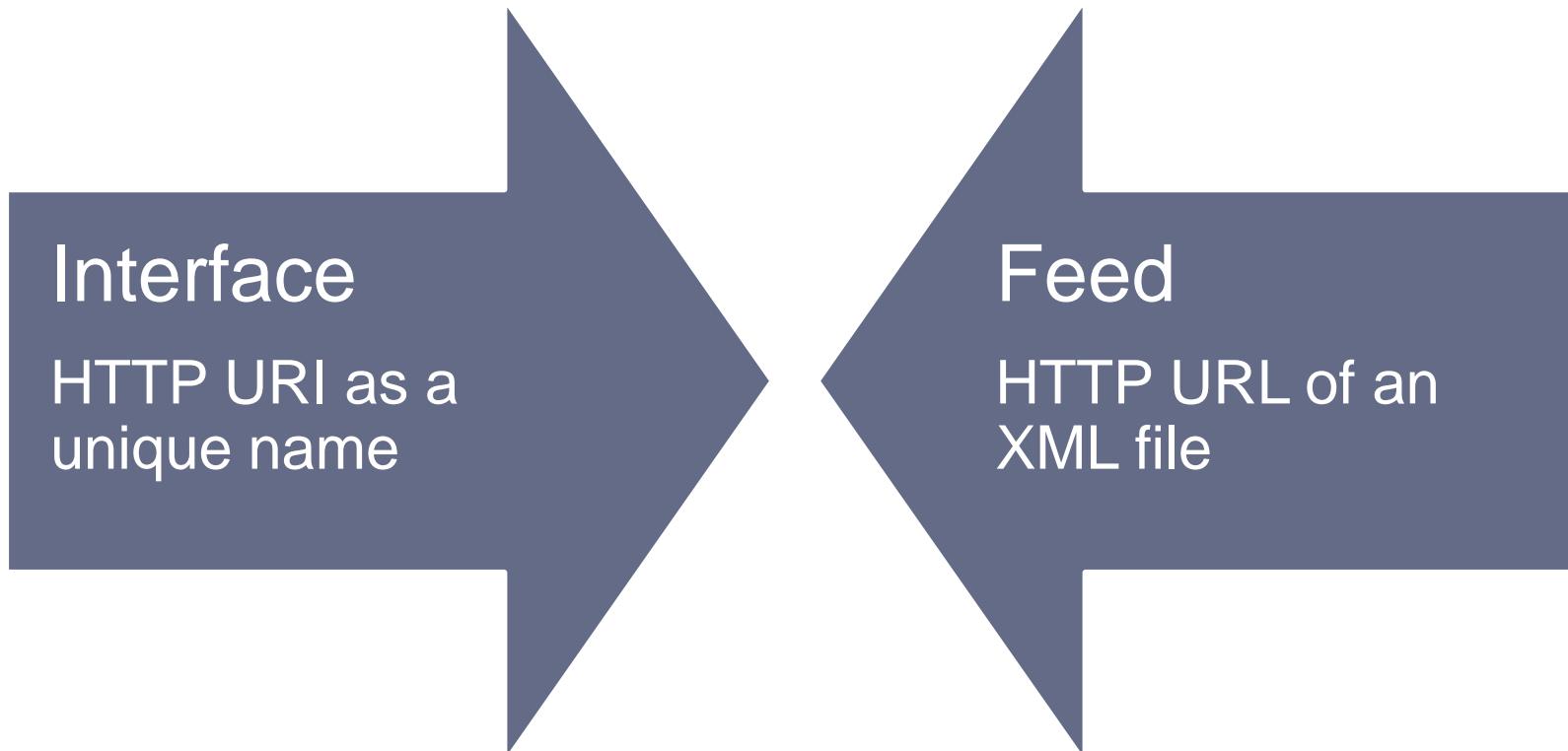


Security

- Share downloads with other users
- Automatic updates



Terms



<http://mozilla.org/Firefox/xml> <http://mozilla.org/Firefox.xml> <http://someguy.net/FirefoxMod.xml>

1 : n



Feed

<?xml?>



Metadata

- Name
- Description
- Icon
- ...

Dependencies

- References to other feeds

Implementations

- Download URLs
- Archive type
- SHA hashes

```
<!-- Base64 Signature  
iQEcBAABAgAGBQJOBZXzAg8Nq0A... -->
```



Launch process

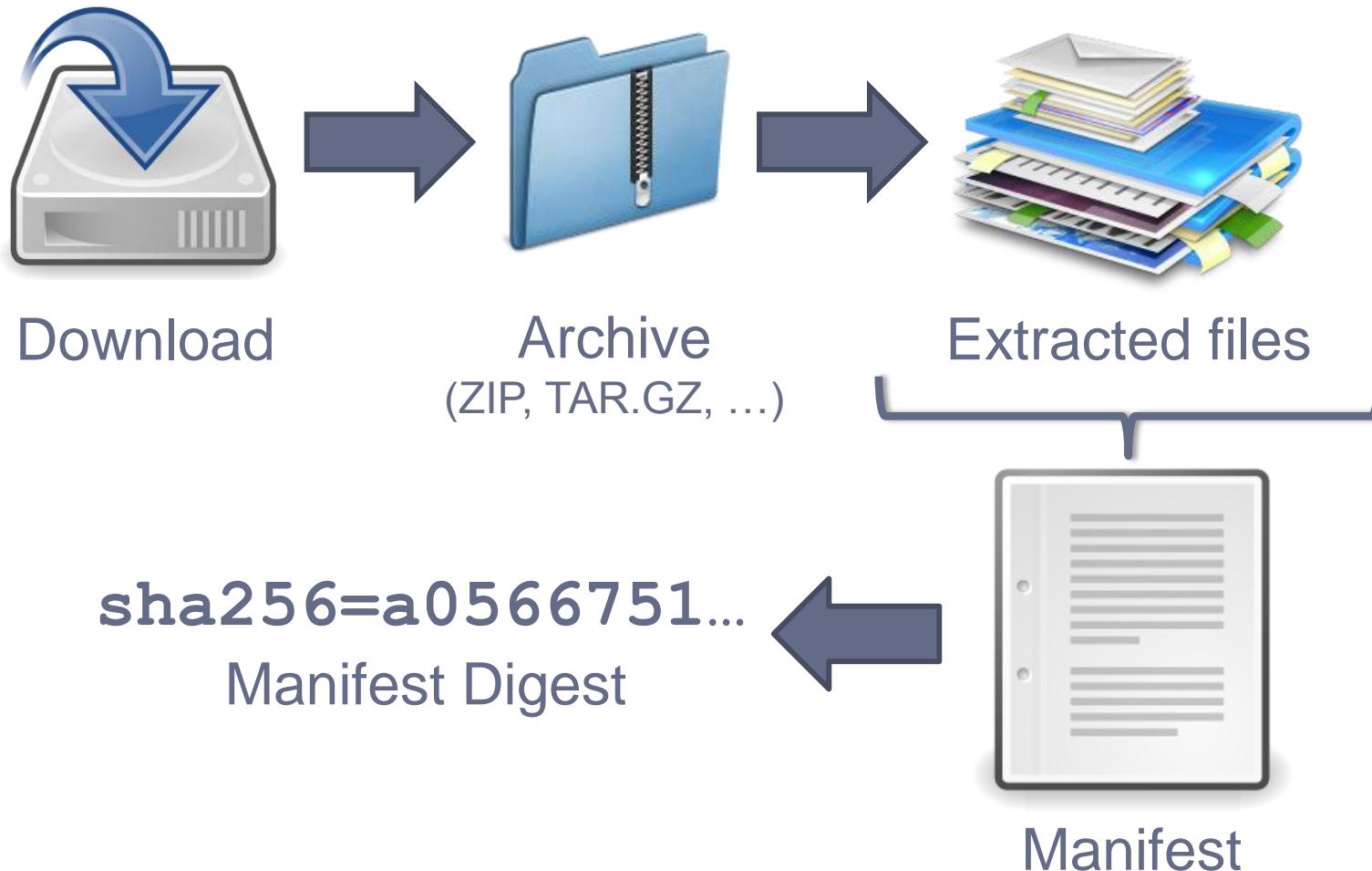
```
$ 0launch http://etc/pp.xml
```



```
$ 0install (select|download|run) URI
```



Implementation download



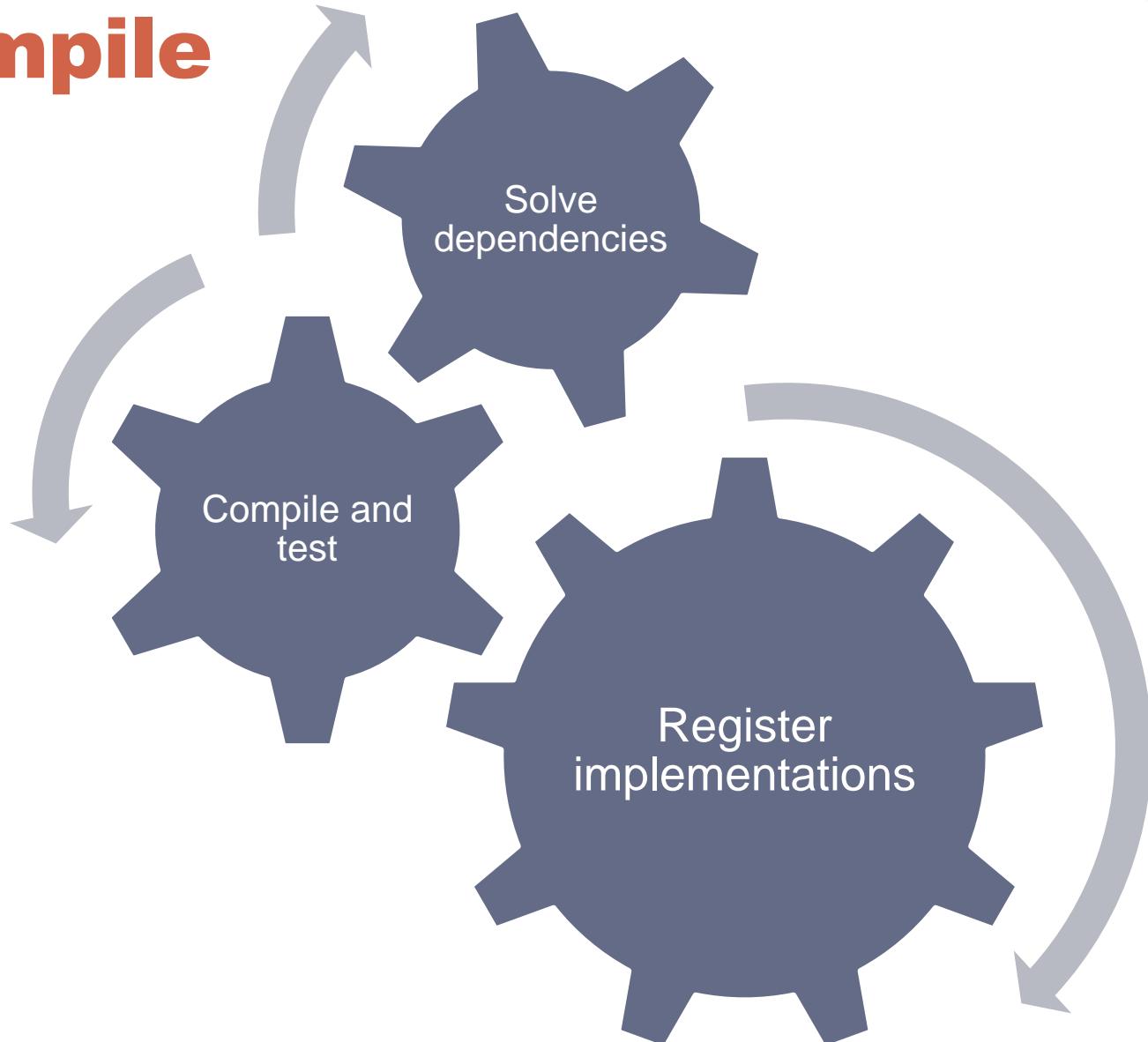


Live demo

Finally...



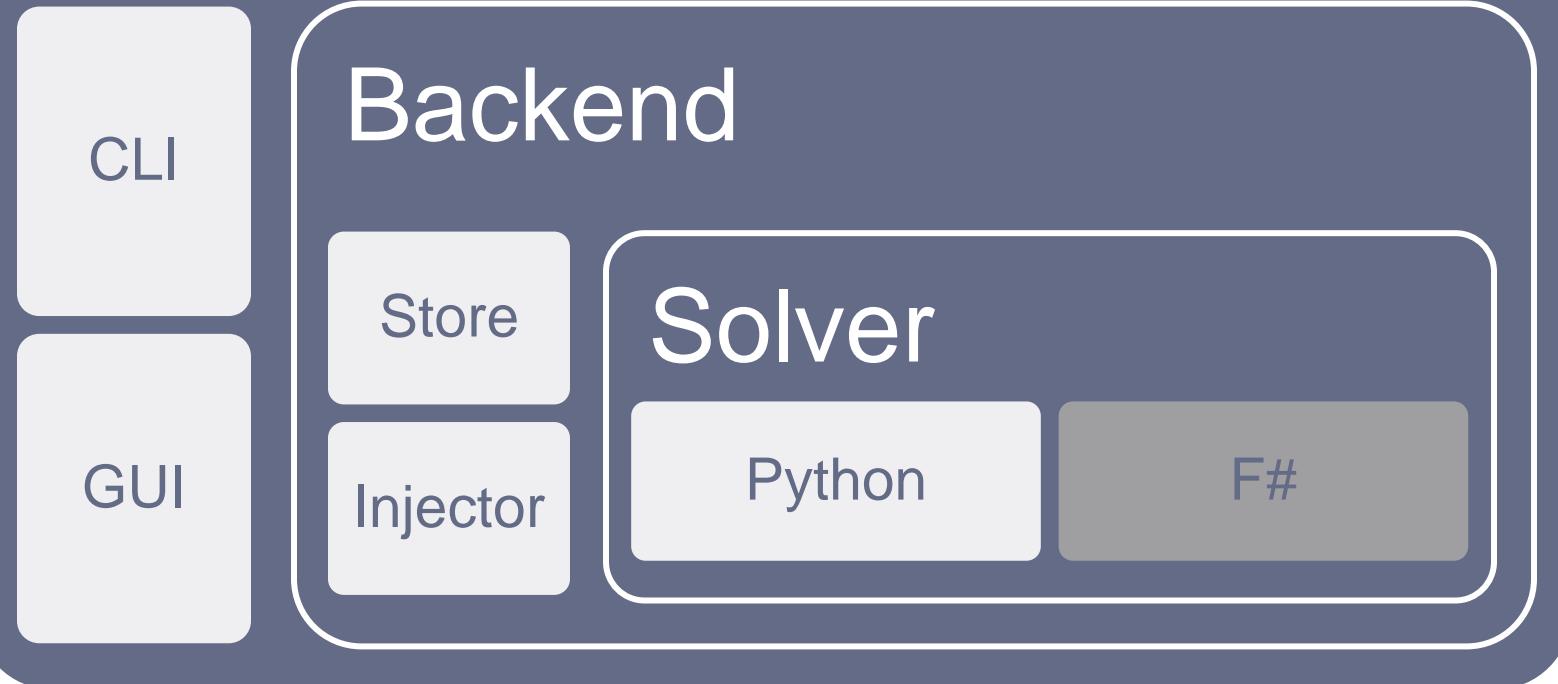
0compile





Windows port

Frontend





Experimental new features

Beyond this place
there be dragons



Desktop Integration

Handler

- File endings
- Burn CDs, etc.



Icons

- Start menu
- Desktop



Services

- Browser
- Mail client



Sync

3-way merge

Application
list as XML

AES-128
decryption

AES-128
encryption



HTTP GET

Download

HTTP PUT

Upload





Roadmap

Configuration management

- Separate instances of installed applications
- Default configurations (e.g., XAMPP)

More intelligent downloads

- Mirrors (Metalink), P2P, delta patches, ...

Improved Sandboxing

- e.g., with E, Plash



Links

Original project website:

<http://0install.net/>

Windows port und
and German project website:

<http://0install.de/>