



# Create, build and develop our Fedora Websites Workshop

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# Workshop's Topics

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1. What are Fedora Websites?
2. Which websites do we maintain?
3. Understand our work-flow
  - a. How we communicate
  - b. Where you can find the docs
  - c. what kind of tools we use
4. Setup your system
5. A deeper look
6. Hands-on a ticket
  - a. Build your changes locally before submitting a PR
7. How to contribute to Fedora Websites Team

# What are Fedora Websites?

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The Fedora Websites are probably the first place a user gets in contact with when searching for Fedora on the web.

For this reason, and also if he gets the websites in his local language, makes our work very important for the project.

In this workshop I'd like to show how the websites are built, how we make translations happen and what kind of tools we use to develop our websites to make them appear in time for a new release. Learn our work-flow and be able to build your changes locally before submitting a PR.

See also how we communicate normally and why collaboration with other teams is so important for us.



# We maintain

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- <http://alt.fedoraproject.org>
- <http://arm.fedoraproject.org>
- <http://boot.fedoraproject.org>
- <http://budget.fedoraproject.org>
- <http://fedoracommunity.org>
- <http://fedoraproject.org>
- <http://flocktofedora.org>
- <http://fudcon.fedoraproject.org>
- <http://getfedora.org>
- <http://labs.fedoraproject.org>
- <http://mirrors.fedoraproject.org>
- <http://spins.fedoraproject.org>
- <http://start.fedoraproject.org>

# Understand our work-flow

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- How we communicate

- IRC channel: #fedora-websites on Freenode.net
- Mailing List:  
<https://lists.fedoraproject.org/admin/lists/websites.lists.fedoraproject.org/>

- Where you can find the docs

- <https://pagure.io/fedora-websites>
- <https://fedoraproject.org/wiki/Websites>
- <https://docs.pagure.org/fedora-websites>

- What kind of tools we use

- Bug tracking and ticketing on pagure, bugzilla, mailing list and IRC
- Git, Bootstrap, Python, Html/CSS and the Genshi framework for l18n

# Setup your system

- Setup your system

- *\$ sudo dnf install git gettext python-genshi python-lxml python-setuptools python-dateutil python-dogpile-cache babel python-feedparser*
- *\$ sudo dnf groups install 'Web Server'*

- Clone the fedora-websites repo

- *\$ git clone https://pagure.io/fedora-websites.git*

- Enter the directory of the website

- *\$ Cd fedora-websites/spins.fedoraproject.org*

- Launch a test instance for “english”

- *\$ make en test*

- Stop the test instance

- *\$ make stoptest*



# A deeper look

- In every single subdomain the directory tree is like the following:

```
|-- spins.fedoraproject.org
|   |-- data
|   |-- Makefile
|   |-- po
|   `-- static
|-- build.d
|   |-- buildconf.py
|   |-- build.py
|   |-- construct-translations.py
|   |-- globalvar.py
|   |-- pybabel.cfg
|   `-- translations.ini
...
|-- httpd
|-- Makefile.in
`-- tools
```

# A deeper look

## • Website Tree

```
|-- spins.fedoraproject.org ← Main Directory of the website
|
|-- data ← Directory of HTML pages
|   |-- contents ← Contains the html files of the website
|       |-- cinnamon
|       |-- kde
|       |-- lxde
|       |-- lxqt
|       |-- download
|       |-- index.html
|
|   ... ← Contains the html templates of the website
|
|   |-- templates
|       |-- cinnamon
|       |-- kde
|       |-- lxde
|       |-- lxqt
|       |-- header.html
|
|   ...
```



# A deeper look

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- In the subdirectory po/ we will find many .po files
  - The SOURCE FILE <name\_of\_domain.pot> contains all the strings of a specific website. Localization teams use it to create their PO files on Zanata..

# A deeper look

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- In the subdirectory static/ we will find:

```
|-- spins.fedoraproject.org  
|   |-- data
```

```
...
```

```
|   |-- static  
|       |-- checksums  
|       |-- css  
|       |-- fonts  
|       |-- images  
|       |-- js  
|       |-- robots.txt
```

# A deeper look

- The `globalvar.py` file, in the `build.d` directory, contains all the variables that we use to build the websites:
  - `release={`  
    `'prev_id': '25',`  
    `'curr_id': '26',`
  - `path={`  
    `'torrent': 'https://torrent.fedoraproject.org/torrents',`  
    `'download_spins':`  
    `'https://download.fedoraproject.org/pub/alt/releases',`
  - `iso_size={`  
    `# Spins`  
    `'686_Live_KDE': '1.5',      # In GB`  
    `x86_64_Live_KDE': '1.4',      # In GB`



# A deeper look



118n: We use the Genshi framework for internationalization. Our current templates need to have a special markup around the strings in order to make them translatable.

- `$_('String')`
  - It's the simplest example;
- `Markup(_('String with &gt; html code'))`
  - The markup that could be used everywhere (it works with embedded html code)
- `Markup(_('String with a &lt;a href="%s"&gt;link&lt;/a&gt;') % 'http://getfedora.org'))`
  - Example using a variable. That is really useful in order to avoid having translators to translate again the string when changing the variable;
- `(_('%(size)s, DVD ISO disc image for %(arch)s-bit PC') % {'size':'3.1 GB', 'arch':'32'})`
  - It's the most complete one which shows you how to deal with multiple variables. The translator will be able to change the variable order using it's name.

# Hands-on a ticket

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We go on pagure and choose one ticket to work:

- How can we proceed?
  - Take charge of the ticket
  - `$ git pull` - in the `/fedora-websites/`
  - Open directory `spins.fpo/` in the our prefer editor/IDE
  - And work on...
- ...
- ... Welldone!

# How to contribute to Fedora Websites Team

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- Join the Websites Mailing List and send a self-introduction
- Create your FAS account and your personal page on the Wiki
- Request to join the Websites group
- Follow us on the freenode IRC channel #fedora-websites
- [https://fedoraproject.org/wiki/Websites#Join\\_the\\_Websites\\_Team](https://fedoraproject.org/wiki/Websites#Join_the_Websites_Team)



# That's all folks

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## Questions?

# Thanks!



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