

Developing modification content



You cannot create new modifications or variations through FProxy. You can only download content for modifications that already exist in the Frosmo back end. If you want to develop a new modification, you must first create the modification and its variations through the Control Panel or the Graniitti API.



If you want to test the content in your browser during development, make sure the [FProxy server](#) is running before you proceed.

To develop modification content:

1. Create the modification through the [Frosmo Control Panel](#) or the [Graniitti API](#).
2. [Download the content from the Frosmo back end with FProxy.](#)
3. [Edit and test the content.](#)
4. [Upload the edited content back to the Frosmo back end with FProxy.](#)

You can also use FProxy to [automatically upload changed content](#).

Downloading modification content

Use the `fproxy download` command to download the content of a single modification or all modifications from a site. The content includes templates and template defaults, if defined.

To download modification content:

1. In your terminal, go to the sites directory. For example, the following command opens the `/dev/my_sites` subdirectory in your home directory:

```
cd ~/dev/my_sites
```

2. Run the `fproxy download` command. For more information, see the command syntax and examples below.



If a modification includes image variations or a tracking-type comparison group, these are not downloaded, since they contain no code content.

For more information about the directories and files that FProxy creates, see [Files, directories, and modification content](#).

Command syntax

```
fproxy download <site_directory> <modification_id|all> [--debug] [--force]
```

The modification ID (and thereby the modification) must already exist in the Frosmo back end. If it does not, the command fails with an error message about the ID not existing.

Command examples

Download the content of modification 33556 from the site `shop_company_com`:

```
fproxy download shop_company_com 33556
```

Download the content of all modifications from the site `shop_company_com`:

```
fproxy download shop_company_com all
```

Download the content of all modifications from the site `shop_company_com` with debugging information displayed:


```
fproxy download shop_company_com all --debug
```

Download the content of modification 33556 from the site `shop_company_com` and overwrite existing local content files without prompting:

```
fproxy download shop_company_com 33556 --force
```

Editing and testing modification content

After you've [downloaded](#) the modification content, you can edit and develop it normally in your preferred source code editor. When you're finished, [upload](#) the content back to the Frosmo back end.

 If you're using Windows and want to edit the content in a Windows application, the content must be stored in your Windows storage directory for the WSL, not in the WSL itself. For more information, see [Installing the Windows Subsystem for Linux](#).

You can test the content during development with [Frosmo Preview](#), provided you have the [FProxy server](#) running.

Uploading modification content


Use the `fproxy upload` command to upload the content of a single modification from your local file system to the Frosmo back end. The content includes a template and template defaults, if defined.

To upload modification content:

1. In your terminal, go to the sites directory. For example, the following command opens the `/dev/my_sites` subdirectory in your home directory:

```
cd ~/dev/my_sites
```

2. Run the `fproxy upload` command. For more information, see the command syntax and examples below.

 If the modification has content preloading enabled or uses a template, the custom script for the site is automatically updated and deployed to the CDN, making the updated modification immediately available to visitors on the site. In all other cases, the modification content is retrieved from the Frosmo back end, so the custom script requires no update.

Command syntax

```
fproxy upload <site_directory> <modification_id> [--debug]
```

The modification ID (and thereby the modification) must already exist in the Frosmo back end. If it does not, the command fails with an error message about the ID not existing.

Command examples

Upload the content of modification 33556 for the site `shop_company_com`:

```
fproxy upload shop_company_com 33556
```

Upload the content of modification 33556 for the site `shop_company_com` with debugging information displayed:

```
fproxy upload shop_company_com 33556 --debug
```

Automatically uploading changed modification content

Use the `fproxy watch` command to monitor for changes in your downloaded modification content and to automatically upload changed files. The content includes templates and template defaults, if defined.

To monitor for and automatically upload changes in modification content:

1. In your terminal, go to the sites directory. For example, the following command opens the `/dev/my_sites` directory in your home directory:

```
cd ~/dev/my_sites
```

2. Run the `fproxy watch` command. For more information, see the command syntax and examples below.



The command runs as a foreground task, so the command blocks the terminal session and does not return you to the prompt. If you want to continue using the terminal, open a new terminal session.

You have started monitoring for changes in the modification content. If a monitored file changes, FProxy automatically uploads the changed content to the Frosmo back end.

To stop monitoring for changes, press **Ctrl+C** / **Cmd+C** in your terminal.

Command syntax

```
fproxy watch <site_directory> [--debug]
```

Command examples

Monitor for and upload changes in the modification content for the site `shop_company_com`:

```
fproxy watch shop_company_com
```

Monitor for and upload changes in the modification content for the site `shop_company_com` with debugging information displayed:

```
fproxy watch shop_company_com --debug
```