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# **xTools**

## ***Release***

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Xtools is a system of tools written by [User:X!](#) on [Wikipedia](#). The original version lives at <http://tools.wmflabs.org/xtools>



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## Pre-requisites

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Xtools requires the following to run:

- A recent version of Linux (Windows servers are supported, however; you must enable the `app.load_stylesheets_from_cdn` if you want it to look nice).
- PHP 5.5.9+ (not tested on PHP7)
  - JSON must be enabled.
  - ctype needs to be enabled
  - You must have `date.timezone` set in `php.ini`.
  - PDO including the driver for the database you want to use
  - Curl must be enabled.
- Composer 1.0.0+

## 1.1 Databases

1. A main tool database. This just needs to be created, and the xTools user needs create and destroy privileges.
2. One or more project databases. This should be a current mediawiki install. The meta database should point to it.

## 1.2 Optional Database

If you are running more than one wiki (`app.is_single_wiki` set to false), information on each wiki must be stored in a meta database. xTools uses one modeled after [The WMF Labs database](#).

This database must live on the same machine as the project databases.

Run `sql/meta.sql` to set one up.





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# Installation

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To install xTools, please follow these steps:

1. Download the repository into your webserver root.
2. Run `composer install`
3. Start your web server.
4. Visit your domain in a browser. You should see the xTools landing page
5. In order to update the cache after making configuration changes, run `sudo ./clear_cache.sh` from the webserver root.



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## Configuration

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As part of the installation of xTools, `composer install` or `composer update` may prompt you for configuration options. This is a definition of those options.

- **database\_host** - Hostname for the server with the symfony database
- **database\_port** - Port for the server with the symfony database
- **database\_name** - Database Name for the server with the symfony database
- **database\_user** - Username for the server with the symfony database
- **database\_password** - Password for the server with the symfony database
- **database\_replica\_host** - Hostname for the server with the MediaWiki database
- **database\_replica\_port** - Port for the server with the MediaWiki database
- **database\_replica\_name** - Database Name for the server with the MediaWiki database
- **database\_replica\_user** - Username for the server with the MediaWiki database
- **database\_replica\_password** - Password for the server with the MediaWiki database
- **database\_meta\_name** - Database Name for the server with the meta\_p table (This is optional if `app.single_wiki` is set)
- **mailer\_transport** - Software for the mailer
- **mailer\_host** - Hostname for the mailer
- **mailer\_user** - Username for the mailer software
- **mailer\_password** - Password for the mailer software
- **secret** - A secret key that's used to generate certain security-related tokens
- **app.noticeDisplay** - Display the notice or not
- **app.noticeStyle** - Style of the notice banner. Available options: "error," "warning," "success," "info."
- **app.noticeText** - Message shown to the user. If you provide a valid intuition key, it will display that message instead
- **app.replag\_threshold** - Number of seconds to consider the replicas as "lagged", and show a warning to the user that the data may be out of date
- **enable.ec** - Enable "Edit Counter" tool
- **enable.articleinfo** - Enable "Article Information" tool
- **enable.pages** - Enable "Pages Created" tool

- **enable.topedits** - Enable “Top Edits” tool
- **enable.rangecontri** - Enable “Range Contributions” tool
- **enable.blame** - Enable “Article Blamer” tool
- **enable.autoedits** - Enable “Automated Edits” tool
- **enable.autoblock** - Enable “Autoblock” tool
- **enable.adminstats** - Enable “Admin Statistics” tool
- **enable.adminscore** - Enable “Admin Score” tool
- **enable.rfa** - Enable “RfX Analysis” tool
- **enable.rfap** - Enable “RfX Vote Calculator” tool
- **enable.bash** - Enable “Quote Database” tool
- **enable.sc** - Enable “Plain, Dirty, Simple Edit Counter” tool
- **app.load\_stylesheets\_from\_cdn** - Whether to load our stylesheets and scripts from a CDN. This is required if xTools is installed on a Windows server
- **app.single\_wiki** - Point xTools to a single wiki, instead of using a meta database. This ignores `database_meta_name` above.
- **app.is\_labs** - Whether xTools lives on the Wikimedia Foundation Labs environment. This should be set to false.
- **wiki\_url** - URL to use if `app.single_wiki` is enabled. The title of pages is attached to the end.

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## Development

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To contribute to the development of xTools, you may fork us on GitHub. A few things to be aware of first:

1. xTools is based on Symfony 3.0. We use Twig as our template engine. Symfony is a full MVC system.
1. The controllers are located at `src/AppBundle/controller`. They are sorted by tool
2. The twig templates are located at `app/resources/views`. They are sorted by tool.
2. We use the `@Route` syntax to configure routes.
3. Every tool requires a twig directory and one controller. Also, core parts of xTools require the tool to be registered within `app/config/tools.yml`.

### 4.1 Style Guideline

- We use 4 spaces to indent code.
- Opening and closing curly braces must be on their own lines.
- Variable names are camelCase. Constants are ALL\_CAPS\_AND\_UNDERSCORES. Function names are camelCase.
- Functions and routes must begin with the tool name.

### 4.2 Running Development server

Follow these steps

1. Download the repository.
2. Run `composer install`
3. Issue `php bin/console server:run`.
4. Visit `http://localhost:8000` in your web browser.

The development server does not cache data. Any changes you make are visible after refreshing the page.

## 4.3 Additional Help

Please contact [User:Matthewrbowker](#) or [User:MusikAnimal](#) if you need help. Or, you are welcome to visit us on [IRC](#) (Direct link - Requires an IRC client).

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### Help

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For help with xTools, there are several places you can ask.

- [Github](#)
- [Phabricator](#)
- [IRC](#) (Direct link - Requires an IRC client)