

# XPPQ (XML PreProcessor)

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## Introduction

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*xppq* is a tool which transforms an XML file to another XML file, following directives inserted directly in the source XML file. This directives allow to handle macros, to affect value to variables and to test their values, to include files... In a glance, *xppq* aims to be to XML what `cpp` [[http://en.wikipedia.org/wiki/C\\_preprocessor](http://en.wikipedia.org/wiki/C_preprocessor)] is to C/C++.

To do this, following directives are available :

- `<xpp:expand href="file" />` which allows the inclusion of a file,
- `<xpp:define name="name">...</xpp:define>`, which, in combination with `<xpp:expand select="name" />` allows the definition and expansion of a macro,
- `<xpp:set name="name" value="value" />`, which, in combination with `<xpp:ifeq select="name" value="value">...</xpp:ifeq>` allows the conditional inclusion of an XML tree.

More about this directives and the others can be found in the [directives dedicated page](#).

The preprocessor is also embedded in all the Epeios software which handle XML files. The directives can also be used for those files.

The default XML namespace : `http://q37.info/ns/xpp` [`http://q37.info/ns/xpp`] (`xmlns:xpp="http://q37.info/ns/xpp"`).

*xppq* can be build as command-line binary for *GNU/Linux* (and probably other *UNIX*-like OSes), *OS X* and *Windows*, in 32 bits (*IA-32*), 64 bits (*x86-64*) and *ARM*.

*xppq* handles 8-bits encoded files, and also *UTF-8* encoded files, with or without BOM. All included files (using the `expand` directive) have to use the same encoding as the file which includes them.

## Installation

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See the [compilation dedicated page](#) to see how to obtain the binaries. There are also two files, `xppq.xcfg` and `xppq.xlcl`, which have to be in the same directory as the one containing the binary.

## Configuration

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### Language

The default language is English. You can switch to French by changing the `<Language>...</Language>` section from `xppq.xcfg` file from `en` to `fr`. This two are currently the only available languages, but, by completing the `xppq.xlcl` files, and modifying the `xppq.xcfg` file accordingly, you can switch to whatever language you want.

### Arguments

The way the command-line arguments can be passed to *xppq* can be personalized by modifying the `xppq.xcfg Arguments` section. A document which explains this has still to be written.

## Licences

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This tool is released under the GNU Affero General Public License [<http://www.gnu.org/licenses/agpl.html>]. This is the default license, this tool can be released under other licenses. Contact me [<http://q37.info/contact/>] for more details.

## Status

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- Last stable release : **20150604**
- Changelog [<http://hg.savannah.gnu.org/hgweb/epeios/file/tip/tools/xppq/CHANGELOG.txt>].

## The directives

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The recognized directives are : `define`, `expand`, `attribute`, `set`, `ifeq`, `cdata` and `bloc`. More details can be found on this [page](#), on which you can also find an example of use.

## Resources

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- User manual [<http://q37.info/computing/epeios/tools/xppq/manual/>],
- source repository :
  - of the tool [<http://hg.savannah.gnu.org/hgweb/epeios/file/tip/tools/xppq/>],
  - of the Epeios framework [<http://hg.savannah.gnu.org/hgweb/epeios/file/tip/stable>],
- download [<http://q37.info/download/computing/xppq/>],
- changelog [<http://hg.savannah.gnu.org/hgweb/epeios/file/tip/tools/xppq/CHANGELOG.txt>],
- details of the directives [<http://q37.info/computing/epeios/tools/xppq/directives/>],
- compilation instructions [<http://q37.info/computing/epeios/compilation/>].

computing/epeios/tools/xppq/home.txt · Last modified: 2015/06/04 09:05 by Claude SIMON

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