



Xper<sup>2</sup> - Release 2.3

Laboratoire Informatique et Systématique (LIS)

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# Xper<sup>2</sup> Complete editor and CAI - Documentation

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## 1 Overview

Xper<sup>2</sup> is a free software developed by the LIS (Laboratoire d'Informatique et Systématique - Systematics and Informatics Laboratory) at the University Pierre et Marie Curie in Paris. Xper<sup>2</sup> is a user friendly editor of knowledge bases on descriptive data and allows C.A.I. (Computer Aided Identification). Xper<sup>2</sup> consists of two distinct interfaces :

- A builder: The editor of knowledge bases which allows the building of the descriptive system with descriptors and states, and the edition of taxa that can be described using the pre-established descriptive system. Example:
  - Descriptor "Dorsal spots" ⇒ "present" or "absent".
  - Taxon "Genetta tigrina" ⇒ "dorsal spots" = "present"
- A player: The identification module is an interactive way (with a possibility of using it as a Java applet from a web browser) to try to match a specimen with one of the taxa described in a knowledge base.

## 2 Requirement

### 2.1 Computer configuration

	Minimal	Recommended
processor	500 Mhz	>1Ghz
Memory	512 MB	>1GB
Disk space	50 MB	>100 MB
JRE	V1.6	V1.7

### 2.2 About java

Xper<sup>2</sup> is implemented in Java, and is thus cross-platform, which means it run on any Java enabled operating system : Linux, MacOSX, Windows *etc.* . .

If needed, update or install a Java Runtime Environment:

- On Windows, during the installation, select the JRE component.
- Else go to the Java Website (<http://java.sun.com/>) to download the latest release.

### 2.3 Bug

Xper<sup>2</sup> is currently in development, so you may encounter some problems while using it. In that case, please report the problem by email at [webmaster-lis@snv.jussieu.fr](mailto:webmaster-lis@snv.jussieu.fr). Try to give us a maximum of information about the problem and about your configuration (OS, JRE version, ...).

## 3 Installation

### 3.1 Windows

To install Xper<sup>2</sup> on Windows, click on the install executable and follow the installation wizard. By default, it will be installed into the directory : C:\Program Files\Xper2 (Caution, on Windows XP or Windows 7 you need administrator rights !) You can of course change the destination directory. If any JRE is installed on your computer, select the JRE component while installing at the step of choice components.

### 3.2 Linux

To install Xper<sup>2</sup> on Linux, decompress the archive, using command "`tar xvfz archive.tgz`". By default, all files will be extracted in a new directory with the archive name.

### 3.3 Mac OS X

To install Xper<sup>2</sup> on a Mac, unzip the archive and copy the extracted application bundle where you want (however applications are usually placed in the /Applications folder).

## 4 Launch

### 4.1 Windows

To launch Xper<sup>2</sup> , click on the shortcut on the desktop, in the taskbar, or in the applications menu. If you encounter troubles, check these points :

- Is a Java Runtime Environment installed? In a DOS command window, type "java -version". If you obtain an error message, that means that no JRE is installed.
- Is the JRE compatible with Xper<sup>2</sup> ?

In a DOS command window, type "java -version". You will obtain informations about the installed JRE. Check the number version, and update it if the version is lower than 1.6.

## 4.2 Linux

To launch Xper<sup>2</sup> , run the jar file with the following command:

```
1 # run exec
2 java -jar xper2-Editor-2.x.x.jar
3 # The Xper2 software needs a Java Runtime Environment (JRE 1.6 or up),
4 # So, verify if a JRE is installed on your system and check the version number.
5 java -version
```

Figure 1: Launch Xper<sup>2</sup> on Linux

## 4.3 Mac OS X

To launch Xper<sup>2</sup> , click on the application called Xper2-2.3.app The Xper<sup>2</sup> software needs a Java Runtime Environment (JRE 1.6 or up). So, verify if a JRE is installed on your system and check the version number.

```
1 # Verify if a JRE is installed on your system and check the version number.
2 java -version
```

Figure 2: Test java version

## 5 Contact

For any information, bug reports, need of explanation, you can send us an email at [xper@listes.upmc.fr](mailto:xper@listes.upmc.fr). To be informed about evolutions and future releases of <sup>2</sup>, we encourage you to subscribe to our mailing-list "xper":

- First way: Send an email to [sympa@listes.upmc.fr](mailto:sympa@listes.upmc.fr) with the following subject: subscribe xper <your\_first\_name><your\_name>
- Second way: Go to the url <https://www.listes.upmc.fr/wws/subscribe/xper>