






[Translation\(s\)](#): none

The  [XDG Base Directory Specification](#) (XDGBDS) defines four categories of so called DotFiles and the corresponding directories in a users home directory that should be used for those. The categories are cache, configuration, data and runtime files. There is not yet a separate categorie for "state" files although such a categorie has been requested several times (see [State proposal](#) below).

Please refer to  [the specification](#) for directory definitions and further details. Debian does not require that packages conform to the *XDGBDS* but [strongly encourages](#) upstreams to do so. Debian packages should not be patched for conformance to avoid unnecessary deviation from upstream and other distributions.

## Tools and libraries

Debian contains several libraries for different languages that help to implement the XDGBDS:















- Haskell: [DebianPkg: haskell-xdg-basedir](#)
- Python: [DebianPkg: python-xdg/python3-xdg](#)
- C++/QT: [DebianPackage: libqtxdg](#)
- C: [DebianPkg: libxdg-basedir](#)
- C/Gnome:  [via glib](#))


These tools or libraries exists but are not yet packaged:

-  [xdgdirs](#) Guile, Lisp, Scheme, ???

## Status of Packages

Debian does not require packages to conform to the XDGBDS and there is not (yet) a coordinated effort to encourage upstreams to do so. But to avoid duplication of effort we can collect upstream bug reports here regarding XDGBDS conformance.






- emacs:  [upstream bug](#)
- mplayer:  [upstream bug](#)
- xmonad:  [upstream bug](#)
- tmux:  [discussion+patch, rejection](#)
- spacemacs (needs packaging):  [upstream bug](#)
- ZSH:  <http://www.zsh.org/mla/workers/2013/msg00692.html>
- Gimp:  <https://gitlab.gnome.org/GNOME/gimp/commit/60e0cfe>,  <https://gitlab.gnome.org/GNOME/gimp/commit/483505f>,  [https://bugzilla.gnome.org/show\\_bug.cgi?id=166643](https://bugzilla.gnome.org/show_bug.cgi?id=166643),  [https://bugzilla.gnome.org/show\\_bug.cgi?id=646644](https://bugzilla.gnome.org/show_bug.cgi?id=646644)
- OpenSSH:  [https://bugzilla.mindrot.org/show\\_bug.cgi?id=2050](https://bugzilla.mindrot.org/show_bug.cgi?id=2050)
- GnuPG:  <https://bugs.gnupg.org/gnupg/issue1456>
- dbus:  <https://gitlab.freedesktop.org/dbus/dbus/issues/46>
- Pidgin:  <https://developer.pidgin.im/ticket/4911>

A bigger list of bugs can be found in Arch Linux wiki: 




[https://wiki.archlinux.org/index.php/XDG\\_Base\\_Directory](https://wiki.archlinux.org/index.php/XDG_Base_Directory)

Bugs not yet filled/found: mplayer

## Links

-  [Modify your application to use XDG folders](#) - Blog post from Lionel Dricot
-  [Fedora initiative](#) to make packages conform to XDGBDS
-  [Gnome Goal](#) to conform to XDGBDS
-  [KDE site on XDGBDS](#)
-  [XDG Base Directory in Arch wiki](#) - long list of software that supports the spec

## Proposal: STATE directory

This is a recurring request/complaint (see  [this](#) or  [this](#)) on the xdg-freedesktop mailing list to introduce another directory for state information that does not belong in any of the existing categories (see also  [home-dir.proposal](#)). Examples for this information are:

- history files of shells, repls, anything that uses libreadline
- logfiles

- state of application windows on exit
- recently opened files
- last time application was run
- emacs: bookmarks, ido last directories, backups, auto-save files, auto-save-list

The above example information is not essential data. However it should still persist on reboots of the system unlike cache data that a user might consider putting in a TMPFS. On the other hand the data is rather volatile and does not make sense to be checked into a VCS. The files are also not the data files that an application works on.

A default folder for a future STATE category might be: `$HOME/.local/state`

Some questions that might help to distinguish between the different classes:

	<b>DATA</b>	<b>CONFIG</b>	<b>STATE</b>	<b>CACHE</b>	<b>RUNTIME</b>
sync across machines?	yes?	yes	no	no	no
manage in VCS (Git/SVN)?	no	yes	no	no	no
should be backed up?	yes	yes	yes	no	no
can live in tmpfs?	no	no	no	yes	yes?
contains much data?	yes	no	no	yes	no