
D-Wave homebase

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Contents:

1	homebase	1
2	License	3
3	Documentation	5
4	Indices and tables	15
	Python Module Index	17
	Index	19

CHAPTER 1

homebase

An API for getting platform independent paths to user data and configuration folders, with support for [virtualenv](#)

CHAPTER 2

License

Released under the Apache License 2.0 (see License).

3.1 hombase module

This module provides an API for determining application specific directories for data, config, logs, etc.

public module members:

<code>user_data_dir(app_name, app_author[, ...])</code>	Return the full path to the user data dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.
<code>user_config_dir(app_name, app_author[, ...])</code>	Return the full path to the user config dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.
<code>user_cache_dir(app_name, app_author[, ...])</code>	Return the full path to the user cache dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.
<code>user_state_dir(app_name, app_author[, ...])</code>	Return the full path to the user state dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.
<code>user_logs_dir(app_name, app_author[, ...])</code>	Return the full path to the user log dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.
<code>site_data_dir(app_name, app_author[, ...])</code>	Return the full path to the OS wide data dir for this application.
<code>site_config_dir(app_name, app_author[, ...])</code>	Return the full path to the OS wide config dir for this application.
<code>site_data_dir_list(app_name, app_author[, ...])</code>	Return the list of full path to the OS wide data directories for this application.

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Table 1 – continued from previous page

<code>site_config_dir_list(app_name, app_author, ...)</code>	Return the list of full path to the OS wide data directories for this application.
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This code is inspired by and builds on top of code from <http://github.com/ActiveState/appdirs>

class Platform

Bases: `enum.Enum`

WINDOWS = 1

MACOS = 2

POSIX = 3

user_data_dir(*app_name*, *app_author*, *version=None*, *roaming=False*, *use_virtualenv=True*, *create=True*)

Return the full path to the user data dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.

If using a virtualenv, the path returned is `/path/to/virtualenv/data/app_name`

Typical user data directories are:

- Mac OS X: `~/Library/Application Support/<app_name>`
- Unix: `~/.local/share/<app_name>` # or `$XDG_DATA_HOME/<app_name>`, if defined.
- Win XP (not roaming): `C:\Documents and Settings\<username>\Application Data\<app_author>\<app_name>`
- Win XP (roaming): `C:\Documents and Settings\<username>\Local Settings\Application Data\<app_author>\<app_name>`
- Win 7 (not roaming): `C:\Users\<username>\AppData\Local\<app_author>\<app_name>`
- Win 7 (roaming): `C:\Users\<username>\AppData\Roaming\<app_author>\<app_name>`

For Unix, we follow the XDG spec and support `$XDG_DATA_HOME`. That means, by default `~/.local/share/<AppName>`.

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user data path.
- **app_author** (*str*) – Only used in Windows when not in a virtualenv, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the `app_name`.
- **roaming** (*bool*) – roaming appdata directory. That means that for users on a Windows network setup for roaming profiles, this user data will be synchronized on login. See [http://technet.microsoft.com/en-us/library/cc766489\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc766489(WS.10).aspx) for a discussion of issues.
- **use_virtualenv** (*bool*) – If True and we're running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the user data dir for this application.

Return type `str`

user_config_dir (*app_name*, *app_author*, *version=None*, *roaming=False*, *use_virtualenv=True*, *create=True*)

Return the full path to the user config dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.

If using a virtualenv, the path returned is `/path/to/virtualenv/config/app_name`

Typical user config directories are:

- Mac OS X: same as `user_data_dir`
- Unix: `~/.config/<AppName>` # or in `$XDG_CONFIG_HOME`, if defined
- Win *: same as `user_data_dir`

For Unix, we follow the XDG spec and support `$XDG_CONFIG_HOME`. That means, by default `~/.config/<AppName>`.

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the `app_name`.
- **roaming** (*bool*) – roaming appdata directory. That means that for users on a Windows network setup for roaming profiles, this user data will be synchronized on login. See [http://technet.microsoft.com/en-us/library/cc766489\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc766489(WS.10).aspx) for a discussion of issues.
- **use_virtualenv** (*bool*) – If True and we're running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the user config dir for this application.

Return type `str`

user_cache_dir (*app_name*, *app_author*, *version=None*, *use_virtualenv=True*, *create=True*)

Return the full path to the user cache dir for this application, using a virtualenv location as a base, if it exists, and falling back to the host OS's convention if it doesn't.

If using a virtualenv, the path returned is `/path/to/virtualenv/cache/app_name`

Typical user cache directories are:

- Mac OS X: `~/Library/Caches/<AppName>`
- Unix: `~/.cache/<AppName>` (XDG default)
- Win XP: `C:\Documents and Settings\<username>\Local Settings\Application Data\<AppAuthor>\<AppName>\Cache`
- Vista: `C:\Users\<username>\AppData\Local\<AppAuthor>\<AppName>\Cache`

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the `app_name`.

- **use_virtualenv** (*bool*) – If True and we’re running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the user cache dir for this application.

Return type *str*

user_state_dir (*app_name*, *app_author*, *version=None*, *roaming=False*, *use_virtualenv=True*, *create=True*)

Return the full path to the user state dir for this application, using a virtualenv location as a base, if it is exists, and falling back to the host OS’s convention if it doesn’t.

If using a virtualenv, the path returned is `/path/to/virtualenv/state/app_name`

Typical user state directories are:

- Mac OS X: same as `user_data_dir`
- Unix: `~/.local/state/<AppName>` # or in `$XDG_STATE_HOME`, if defined
- Win *: same as `user_data_dir`

For Unix, we follow this Debian proposal <https://wiki.debian.org/XDGBaseDirectorySpecification#state> to extend the XDG spec and support `$XDG_STATE_HOME`. That means, by default `~/.local/state/<AppName>`.

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the `app_name`.
- **roaming** (*bool*) – roaming appdata directory. That means that for users on a Windows network setup for roaming profiles, this user data will be synchronized on login. See [http://technet.microsoft.com/en-us/library/cc766489\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/cc766489(WS.10).aspx) for a discussion of issues.
- **use_virtualenv** (*bool*) – If True and we’re running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the user state dir for this application.

Return type *str*

user_logs_dir (*app_name*, *app_author*, *version=None*, *use_virtualenv=True*, *create=True*)

Return the full path to the user log dir for this application, using a virtualenv location as a base, if it is exists, and falling back to the host OS’s convention if it doesn’t.

If using a virtualenv, the path returned is `:bash:/path/to/virtualenv/log/app_name“`

Typical user log directories are:

- Mac OS X: `~/Library/Logs/<AppName>`
- Unix: `~/.cache/<AppName>/log` # or under `$XDG_CACHE_HOME` if defined
- Win XP: `C:\Documents and Settings\<username>\Local Settings\Application Data\<AppAuthor>\<AppName>\Logs`
- Vista: `C:\Users\<username>\AppData\Local\<AppAuthor>\<AppName>\Logs`

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the app_name.
- **use_virtualenv** (*bool*) – If True and we’re running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the user log dir for this application.

Return type *str*

site_data_dir (*app_name*, *app_author*, *version=None*, *use_virtualenv=True*, *create=False*)

Return the full path to the OS wide data dir for this application.

Typical site data directories are:

- Mac OS X: /Library/Application Support/<AppName>
- Unix: /usr/local/share/<AppName> or /usr/share/<AppName>
- Win XP: C:\Documents and Settings\All Users\Application Data\<AppAuthor>\<AppName>
- Vista: (Fail! "C:\ProgramData" is a hidden *system* directory on Vista.)
- Win 7: C:\ProgramData\<AppAuthor>\<AppName> # Hidden, but writeable on Win 7.

For *nix, this is using the \$XDG_DATA_DIRS default.

Note: On linux, the \$XDG_DATA_DIRS environment variable may contain a list. *site_data_dir* returns the first element of this list. If you want access to the whole list, use *site_data_dir_list()*

<p>Warning: Do not use this on Windows Vista. See the Vista-Fail note above for why.</p>

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the app_name.
- **use_virtualenv** (*bool*) – If True and we’re running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the site data dir for this application.

Return type `str`

site_data_dir_list (*app_name*, *app_author*, *version=None*, *use_virtualenv=True*, *create=False*)

Return the list of full path to the OS wide data directories for this application.

Typical site data directories are:

- Mac OS X: /Library/Application Support/<AppName>
- Unix: /usr/local/share/<AppName> or /usr/share/<AppName>
- Win XP: C:\Documents and Settings\All Users\Application Data\<AppAuthor>\<AppName>
- Vista: (Fail! "C:\ProgramData" is a hidden *system* directory on Vista.)
- Win 7: C:\ProgramData\<AppAuthor>\<AppName> # Hidden, but writeable on Win 7.

For *nix, this is using the \$XDG_DATA_DIRS default.

Warning: Do not use this on Windows Vista. See the Vista-Fail note above for why.
--

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the app_name.
- **use_virtualenv** (*bool*) – If True and we're running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns A list to the full paths for site data directories for this application.

Return type `list`

site_config_dir (*app_name*, *app_author*, *version=None*, *use_virtualenv=True*, *create=False*)

Return the full path to the OS wide config dir for this application.

Typical site data directories are:

- Mac OS X: /Library/Application Support/<AppName>
- Unix: /usr/local/share/<AppName> or /usr/share/<AppName>
- Win XP: C:\Documents and Settings\All Users\Application Data\<AppAuthor>\<AppName>
- Vista: (Fail! "C:\ProgramData" is a hidden *system* directory on Vista.)
- Win 7: C:\ProgramData\<AppAuthor>\<AppName> # Hidden, but writeable on Win 7.

For *nix, this is using the \$XDG_DATA_DIRS default.

Note: On linux, the \$XDG_CONFIG_DIRS environment variable may contain a list. *site_config_dir* returns the first element of this list. If you want access to the whole list, use *site_config_dir_list()*

Warning: Do not use this on Windows Vista. See the Vista-Fail note above for why.

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the app_name.
- **use_virtualenv** (*bool*) – If True and we're running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns the full path to the site config dir for this application.

Return type *str*

site_config_dir_list (*app_name, app_author, version=None, use_virtualenv=True, create=False*)

Return the list of full path to the OS wide data directories for this application.

Typical site data directories are:

- Mac OS X: /Library/Application Support/<AppName>
- Unix: /usr/local/share/<AppName> or /usr/share/<AppName>
- Win XP: C:\Documents and Settings\All Users\Application Data\<AppAuthor>\<AppName>
- Vista: (Fail! "C:\ProgramData" is a hidden *system* directory on Vista.)
- Win 7: C:\ProgramData\<AppAuthor>\<AppName> # Hidden, but writeable on Win 7.

For *nix, this is using the \$XDG_DATA_DIRS default.

Warning: Do not use this on Windows Vista. See the Vista-Fail note above for why.

Parameters

- **app_name** (*str*) – Name of the application. Will be appended to the base user config path.
- **app_author** (*str*) – Only used in Windows, name of the application author.
- **version** (*str*) – If given, the application version identifier will be appended to the app_name.

- **use_virtualenv** (*bool*) – If True and we’re running inside of a virtualenv, return a path relative to that environment.
- **create** (*bool*) – If True, the folder is created if it does not exist before the path is returned.

Returns A list to the full paths for site data directories for this application.

Return type `list`

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Version 2.0, January 2004

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This project includes code from the appdirs python package <https://github.com/ActiveState/appdirs> under the following license:

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CHAPTER 4

Indices and tables

- [genindex](#)
- [modindex](#)
- [search](#)
- [Glossary](#)

h

`homebase.homebase`, [5](#)

H

`homebase.homebase` (*module*), 5

M

MACOS (*Platform attribute*), 6

P

`Platform` (*class in homebase.homebase*), 6

POSIX (*Platform attribute*), 6

S

`site_config_dir()` (*in module homebase.homebase*), 10

`site_config_dir_list()` (*in module homebase.homebase*), 11

`site_data_dir()` (*in module homebase.homebase*), 9

`site_data_dir_list()` (*in module homebase.homebase*), 10

U

`user_cache_dir()` (*in module homebase.homebase*), 7

`user_config_dir()` (*in module homebase.homebase*), 6

`user_data_dir()` (*in module homebase.homebase*), 6

`user_logs_dir()` (*in module homebase.homebase*), 8

`user_state_dir()` (*in module homebase.homebase*), 8

W

WINDOWS (*Platform attribute*), 6