
Homebrew-file Documentation

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rcmdnk

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Brewfile manager for [Homebrew](#) at OS X.

Contents:

CHAPTER 1

Installation

Install Homebrew-file with Homebrew:

```
$ brew install rcmdnk/file/brew-file
```

or you can use install script:

```
$ curl -fsSL https://raw.githubusercontent.com/rcmdnk/homebrew-file/install/install.sh |sh
```

which installs Homebrew itself, too, if it is not installed.

Then, add following lines in you **.bashrc** or **.zshrc** to wrap `brew` command:

```
if [ -f $(brew --prefix)/etc/brew-wrap ];then  
  source $(brew --prefix)/etc/brew-wrap  
fi
```

brew-wrap wraps the original `brew` command for an automatic update of **Brewfile** when you execute such a `brew install` or `brew uninstall`.

Note: 17/Dec/2015 update

The default place of Brewfile has been changed from:

```
/usr/local/Library/Brewfile
```

to:

```
~/.brewfile/Brewfile
```

because Homebrew deletes files under **/usr/local** other than Homebrew's one when such `brew update` is executed. (Homebrew checkout its repository as **/usr/local**.)

If you used an old default setting (**/usr/local/Library/Brewfile**), you might lose Brewfile.

In such case, please try `brew file init` and chose local Brewfile, which makes new file **~/.brewfile/Brewfile**.

If you used git repository, you might see a output when you executed `brew update`:

```
$ brew update
Ignoring path Library/rcmdnk_Brewfile/
To restore the stashed changes to /usr/local run:
`cd /usr/local && git stash pop`
Already up-to-date.
```

In this case, please delete `/usr/local/Library/<your_git_account>_Brewfile`, then do `brew file set_repo`.
New repository will be checked out to `~/.brewfile/<your_git_account>_Brewfile`.

CHAPTER 2

Requirements

- **Homebrew** (Can be installed by the install script of brew-file, too).
- **Python 2.7.7** or later (optional).
- **Requests module** (optional)

Although it is not mandatory, the latest Python 2.7.x or 3.x is recommended, to use `brew file brew` command (and `brew-wrap`).

You can install the latest python2.x by Homebrew:

```
$ brew install python
```

or python3.x:

```
$ brew install python3
```

If you set your PYTHONPATH for python3, you may need to execute `brew-file` directly:

```
$ python3 /usr/local/bin/brew-file
```

instead of `brew file`.

- Can't ignore unknown argument in subparser of ArgumentParser of Python even if `parse_known_args` is given
- `PythonArgumentParsersubparserparse_known_argsunknown`

Requests module of python is needed to create Brewfile repository with `setup_repo`. If you make the repository by yourself, it is not needed.

To install:

```
$ easy_install pip # # in case you've not installed pip
$ pip install requests
```


Use local Brewfile

By default, **Brewfile** is `~/.brewfile/Brewfile`.

If you don't have **Brewfile**, first, do:

```
$ brew init
```

`brew init` is same as `brew file init`, if you setup `brew-wrap` as above.

Note: In below, `set_repo` command can be used directly after `brew`, but `install` or `update` need to use with `brew file` because `brew` command has own `install` or `update` commands.

You can check your package list by:

```
$ brew file cat
```

If you already have **Brewfile**, then copy it to `~/.brewfile/Brewfile` and install packages listed in **Brewfile** by:

```
$ brew file install
```

After that, you need to do only normal `brew` commands, like `brew install` or `brew uninstall`. After each command, **Brewfile** is updated automatically if you set `brew-wrap` as above.

When you get new Mac, copy `~/.brewfile` to new Mac and just do:

```
$ brew file install
```

Use Dropbox (or any online storages) for Brewfile management

Set Brewfile place

You can set the place of Brewfile by using the environment variable like:

```
export HOMEBREW_BREWFILE=~/.Dropbox/Brewfile
```

Then, you can use Brewfile as same as the original Brewfile place.

In this case, when you have new Mac, set `HOMEBREW_BREWFILE` and synchronize the file with a online storage service, then do:

```
$ brew file install
```

If you are using multiple Mac in the same time, it is good to have a cron job like:

```
30 12 * * * brew file update
```

This command installs new packages which were installed in another Mac at a lunch time (12:30) every day.

This command also does `brew update` && `brew upgrade`, and removes packages not listed in Brewfile.

If you want to do only installing new packages, then set as:

```
30 12 * * * brew file install
```

Use GitHub (or any git repository) for Brewfile management

Set up a repository

First, create a repository with a file named **Brewfile**.

If you use GitHub, you can make it with brew-file:

```
$ brew set_repo

Set repository, "non" for local Brewfile.
<user>/<repo> for GitHub repository,
or full path for the repository:
```

Give a name like `rcmdnk/Brewfile` (will be recognized as a GitHub repository), or such `git@github.com:rcmdnk/Brewfile`.

Then, initialize **Brewfile**:

```
$ brew init
```

Set up new Mac with your Brewfile in the repository

Do:

```
$ brew set_repo
```

and give your repository name.

And install packages listed in **Brewfile** like:

```
$ brew file install
```

Brewfile management

To update the repository, do:

```
$ brew file update
```

If you have set the repository, this command does `git pull` and `git push` in addition to such brew's `install`, `clean`, `update`, `updgrade` and removing packages described in online storages section above.

It is good if you have such a cron job like:

```
30 12 * * * brew file update
```

The repository is updated at lunch time every day.

Brew-file manages packages installed by Homebrew. It also supports `brew-cask` and other Homebrew subcommand installers.

It uses input file. By default, the file is `~/.brewfile/Brewfile`. You can reuse `Brewfile` for `Brewdler`, too.

If you want to specify input file, use `-f` option.

If you want to change default `Brewfile`, set environmental variable: `HOME BREW_BREWFILE` in your setup file (e.g. `.bashrc`), like:

```
export HOME BREW_BREWFILE=~/.brewfile
```

You can also modify the default installation locations of `Cask` packages. To make this settings, it is the same as issuing [How to Use Homebrew-cask#Options](#). You might want to add the following line to your `.bashrc` or `.zshenv`:

```
export HOME BREW_CASK_OPTS="--appdir=$HOME/MyApplications"
```

Similarly, you can specify the environment for `brew-gem`. The following will tell `brew-gem` to use the Ruby installed by Homebrew itself:

```
export HOME BREW_GEM_OPTS="--homebrew-ruby"
```

If there is no `Brewfile`, `Brew-file` will ask you if you want to initialize `Brewfile` with installed packages or not. You can also make it with `install (-i)` subcommand.

With `install` subcommand, `Brew-file` tries to install packages listed in `Brewfile`. If any packages managed with Homebrew `Cask` are listed, `brew-cask` is also installed automatically.

`Brewfile` convention is similar as `Brewdler`. Normally, you don't need to modify anything on `Brewdler's` `Brewfile` for `Brew-file`

Example:

```
# Tap repositories and their packages
tap caskroom/cask
brew 'brew-cask'
```

```
# install brew-cask # install is same as "brew". Quotes are not mandatory.

tapall rcmdnk/file # This will trigger `brew install brew-file`, too

# Cask packages
cask firefox
#cask install firefox # "cask install" is same as "cask"

# Other Homebrew packages
brew mercurial
brew macvim --with-lua

# Additional files
file ~/.Brewfile
```

First column is command. Second to the last columns are package name and options. They are used as arguments for such `brew install`, therefore any options of Homebrew can be used.

Com- mand	For what? (X is package+options)
brew	<code>brew install X</code>
install	Same as <code>brew</code>
tap	<code>brew tap X</code>
tapall	<code>brew tap X</code> , and installs all packages of Formulae in the tap.
cask	<code>brew cask install X</code> . Require <code>caskroom/homebrew-cask</code> . (It will be installed automatically.)
pip	<code>brew pip X</code> . Require <code>hanxue/brew-pip</code> . (It will be installed automatically.)
gem	<code>brew gem install X</code> . Require <code>sportngin/brew-gem</code> . (It will be installed automatically.)
appstore	Apps installed from AppStore. The line is like: <code>appstore <identifier> <App Name></code> . Identifier can be obtained by <code>argon/mas</code> . (It will be installed automatically.) For older OS X, it might be not available. For such a case, only App names are listed by <code>init</code> , and <code>install</code> command just warns like <code>Please install <App Name> from App Store!</code> .
file	Additional files. A path is a absolute path, or a relative path, relative to the file which calls it.
brewfile	Same as <code>file</code> .
before	Execute X at the beginning of the install.
after	Execute X after all install commands.
Anything others	Execute the line (first and other columns as one line) before <code>after</code> is executed.

If the second column is `install`, it will be ignored.

i.e. `brew install package` is same as `brew package`.

If you want to build `macvim` with `lua` option, you can write as above example `Brewfile`.

If you use `tap`, `Brew-file` only does `tap` the repository.

If you use `tapall`, `Brew-file` does `brew install` for all Formulae in the repository in addition to do `tap` the repository.

If you want to divide the list into several files. If the main `Brewfile` has `file` or `brewfile` commands, then corresponding argument is used as an external file. The path can be an absolute or a relative. If you use a relative path, like `./Brewfile2`, then the start directory is the directory where the main `Brewfile` is.

You can use a nest of `file`, too. The relative path starts from the parent file's directory.

For the path, such `~` is translated into `$HOME`, and any environmental variables can be used.

e.g.

If you have:


```
file ./${HOST}.Brewfile
```

in main Brewfile, and prepare files like:

```
Brewfile Host1.Brewfile Host2.Brewfile Host3.Brewfile
```

in the same directory, then `brew-file` picks up **Host1.Brewfile** for Host1, and **Host2.Brewfile** for Host2, etc...

Or if you just have:

```
file ~/.Brewfile
```

then you can put Host specific packages in `~/.Brewfile`. (If the file doesn't exist, `brew-file` just ignores it.)

Other example: [Add an option to ignore appstore apps · Issue #22 · rcmdnk/homebrew-file](#)

You don't need to `brew install` by hand. As written above, `tap 'caskroom/cask'` is can be dropped because `cask 'firefox'` triggers it.

Some packages such `macvim` has Application (MacVim.app). If you want to install them to Applications area, please use `-l` (for `~/Applications/`) or `-g` (for `/Applications/`).

With `clean` option, Brew-file runs cleanup. By default, it just does dry run (no actual cleanup). To run cleanup in non dry-run mode, use `-C`.

If you want edit Brewfile, use `edit` option.

Warning: If you do `brew file edit` before installing Brewfile and save w/o any modification, you may make empty Brewfile (Be careful, `brew -c -C` remove all packages `:scream:`). Therefore I recommend you to do `brew file -i` at first if you don't have Brewfile.

You can maintain your Brewfile at the git repository. First, make new repository at GitHub (or other git server).

Then, set the repository by:

```
$ brew file set_repo -r <repository>
```

It will clone the repository. If the repository has a file named Brewfile, the file will be used instead of `~/.brewfile/Brewfile`. (then `~/.brewfile/Brewfile` will have this repository informatoin.)

repository should be like `rcmdnk/Brewfile` in GitHub, which should have Brewfile (different file name can be used by `-f`).

If you want to use other hosts than github, use full path for the repository, like:

```
$ brew file set_repo -r git@bitbucket.org:rcmdnk/my_brewfile
```

If the repository doesn't have Brewfile (or specified by `-f`, `brew file init` initialize the file. Then, you can push it by `brew file push`.

With this procedure, you can synchronize all your Mac easily `:thumbsup:`

To install new package, use:

```
$ brew file brew install <package>
```

instead of `brew install <package>`, because above command automatically update Brewfile.

This is useful especially if you are using the repository for the Brewfile, and want to use `brew file update`.

Otherwise, please be careful to use `brew file update`, because it deletes what you installed, but you have not registered in Brewfile.

If you want to check your Apps for Cask, use:

```
$ brew file casklist
```

This command makes `Caskfile.txt`, which is like:

```
### Cask applications
### Please copy these lines to your Brewfile and use with `brew bundle`.

### tap and install Cask (remove comment if necessary).
#tap caskroom/cask
#install brew-cask

### Apps installed by Cask in /Applications
cask install adobe-reader # /Applications/Adobe Reader.app
cask install xtrafinder # /Applications/XtraFinder.app

### Apps installed by Cask in /Applications/Utilities:
cask install xquartz # /Applications/Utilities/XQuartz.app

### Apps installed by Cask in ~/Applications.
cask install bettertouchtool.rb # ~/Applications/BetterTouchTool.app

#####

### Apps not installed by Cask, but installed in /Applications.
### If you want to install them with Cask, remove comments.
#cask install keyremap4macbook # /Applications/KeyRemap4MacBook.app

### Apps not installed by Cask, but installed in /Applications/Utilities:
### If you want to install them with Cask, remove comments.

### Apps not installed by Cask, but installed in ~/Applications.
### If you want to install them with Cask, remove comments.
#cask install copy.rb # ~/Applications/Copy.app

#####

### Apps not registered in Cask, but installed in /Applications.
# /Applications/App Store.app
# /Applications/Calendar.app
...

### Apps not registered in Cask, but installed in /Applications/Utilities:
...

### Apps not registered in Cask, but installed in ~/Applications.
```

You can find applications which were installed manually, but can be managed by Cask under “Apps not installed by Cask, but installed in...”.

If you want to manage them with Brewfile, just copy above lines w/o “#” for these Apps.

Settings

Following environmental variables can be used.

Name	Description	Default
HOME-BREW_BREWFILE	Set place of Brewfile.	“~/brew-file/Brewfile”
HOME-BREW_BREWFILE_BACKUP	If it is set to not empty, Brewfile’s back up is made to <code>HOME-BREW_BREWFILE_BACKUP</code> when Brewfile is updated.	“”
HOME-BREW_BREWFILE_LEAVES	Set 1 if you want to list up only leaves (formulae which don’t have any dependencies, taken by <i>brew leaves</i>).	0
HOME-BREW_BREWFILE_ON_REQUEST	Set 1 if you want to list up only packages installed on request. If it is set 1, it is priority over <i>LEAVES</i> option. Note: This list can be changed if packages installed by brew-file in new machine. (some “on_request” package could be installed as “as_dependencies” of others before being installed on request.)	0
HOME-BREW_BREWFILE_TOP_PACKAGES	Packages which are listed in Brewfile even if <i>leaves</i> is used and they are dependencies. (Useful for such <i>go</i> , which is used by itself, but some packages depend on it, too.)	“”
HOME-BREW_BREWFILE_VERBOSE	Set verbose level.	1
HOME-BREW_BREWFILE_APPSTORE	Set 0 you don’t want to list up AppStore applications Brewfile.	1
HOME-BREW_CASK_OPTS	This is Cask’s option to set cask environment. If <code>appdir</code> or <code>fontdir</code> is set with these options, Brew-file uses these values in it.	“”
HOME-BREW_GEM_OPTS	This is brew-gem’s option to set Ruby environment.	“”

CHAPTER 6

brew-wrap

If you want to automatically update Brewfile after `brew install/uninstall`, please use `brew-wrap`. `homebrew-file/etc/brew-wrap` has a wrapper function `brew`.

Features:

- It executes `brew file init` after such `brew install` automatically.
- `file` can be skipped for non-conflicted commands with `brew`.
 - e.g.) `init` command is not in `brew`. Then, you can replace `brew file init` with:

```
$ brew init
```

- Such `edit` command is also in `brew`. In this case, `brew edit` executes original `brew edit`.
 - * But you can use `brew -e` or `brew --edit` to edit **Brewfile**.

To enable it, just read this file in your `.bashrc` or any of your setup file:

```
if [ -f $(brew --prefix)/etc/brew-wrap ];then  
  source $(brew --prefix)/etc/brew-wrap  
fi
```

`brew` function in `brew-wrap` executes original `brew` if `brew-file` is not included.

Therefore, you can safely uninstall/re-install `brew-file` even if you have already sourced it.

Some subcommands of `brew-file` can be used as a subcommand of `brew`, if the command is not in original `brew` subcommands.

Such `init` or `casklist` commands can be used like:

```
$ brew init # = brew file init  
  
$ brew casklist # brew file casklist
```

With completion settings below, `file` is included in the completion list of `brew`.

In addition, the completion for `brew file` is also enabled, as same as `brew-file` command.

Warning: Previously, `brew-wrap` was in `bin/brew-wrap`, and it was used like alias `brew="brew-wrap"`.

If you have this obsolete setting, please delete and renew as above.

CHAPTER 7

Completion

Functions for Bash/Zsh completions are also installed.

For Bash, please install [Bash-Completion](#) by:

```
$ brew install bash-completion
```

then, add following settings to your `.bashrc`:

```
brew_completion=$(brew --prefix 2>/dev/null)/etc/bash_completion
if [ $? -eq 0 ] && [ -f "$brew_completion" ];then
  source $brew_completion
fi
```

For Zsh, add following settings in your `.zshrc`:

```
brew_completion=$(brew --prefix 2>/dev/null)/share/zsh/zsh-site-functions
if [ $? -eq 0 ] && [ -d "$brew_completion" ];then
  fpath=($brew_completion $fpath)
fi
autoload -U compinit
compinit
```

In case you have installed [zsh-completions](#) (can be installed by brew: `$ brew install zsh-completions`), settings can be like:

```
for d in "/share/zsh-completions" "/share/zsh/zsh-site-functions";do
  brew_completion=$(brew --prefix 2>/dev/null)$d
  if [ $? -eq 0 ] && [ -d "$brew_completion" ];then
    fpath=($brew_completion $fpath)
  fi
done
autoload -U compinit
compinit
```

If you are using `brew-wrap`, please write these completion settings **BEFORE** `brew-wrap` reading.

Help message of brew-file:

```
usage: brew-file [-f INPUT] [-b BACKUP] [-F FORM] [--leaves] [--on_request]
                [--top_packages TOP_PACKAGES] [-U] [--preupdate] [-r REPO]
                [-n] [--caskonly] [--no_appstore] [-C] [-y] [-V VERBOSE] [-h]
                [command] ...

Brew-file: Manager for packages of Homebrew
https://github.com/rcmdnk/homebrew-file

requirement: Python 2.7 or later

optional arguments:
  -f INPUT, --file INPUT
                        Set input file (default: /Users/<USER>/.brewfile/Brewfile).
                        You can set input file by environmental variable,
                        HOMEBREW_BREWFILE, like:
                        export HOMEBREW_BREWFILE=~/.brewfile
  -b BACKUP, --backup BACKUP
                        Set backup file (default: ).
                        If it is empty, no backup is made.
                        You can set backup file by environmental variable, HOMEBREW_
↪ BREWFILE_BACKUP, like:
                        . export HOMEBREW_BREWFILE_BACKUP=~/.brewfile.backup
  -F FORM, --format FORM, --form FORM
                        Set input file format (default: none).
                        file (or none)      : brew vim --HEAD --with-lua
                        brewdler or bundle: brew 'vim', args: ['with-lua', 'HEAD']
                        Compatible with [homebrew-bundle](https://github.com/
↪ Homebrew/homebrew-bundle).
                        command or cmd    : brew install vim --HEAD --with-lua
                        Can be used as a shell script.
  --leaves
                        Make list only for leaves (taken by `brew leaves`).
                        You can set this by environmental variable, HOMEBREW_BREWFILE_
↪ LEAVES, like:
```

```

        .   export HOMEBREW_BREWFILE_LEAVES=1
--on_request      Make list only for packages installed on request.
                  This option is given priority over 'leaves'.
                  You can set this by environmental variable, HOMEBREW_BREWFILE_
↳ON_REQUEST, like:
        .   export HOMEBREW_BREWFILE_ON_REQUEST=1
--top_packages TOP_PACKAGES
                  Packages to be listed even if they are under dependencies and
↳`leaves`/'on_request' option is used.
                  You can set this by environmental variable, HOMEBREW_BREWFILE_
↳TOP_PACKAGES (',' separated), like:
        .   export HOMEBREW_BREWFILE_TOP_PACKAGES=go,coreutils
-U, --noupdate    Do not execute `brew update/brew upgrade` at `brew file_
↳update`.
--preupdate       Execute `brew update` before install or other commands.
-r REPO, --repo REPO Set repository name. Use with set_repo.
-n, --nolink      Don't make links for Apps.
--caskonly        Write out only cask related packages
--no_appstore     Don't check AppStore applications.
                  (For other than casklist command.)
                  You can set input file by environmental variable:
                  export HOMEBREW_BRWEFILE_APPSTORE=0
-C               Run clean as non dry-run mode.
                  Use this option to run clean at update command, too.
-y, --yes         Answer yes to all yes/no questions.
-V VERBOSE, --verbose VERBOSE
                  Verbose level 0/1/2
-h, --help       Print Help (this message) and exit.

subcommands:
[command]
  install        Install packages in BREWFILE.
                  Use `--preupdate` to execute `brew update` before install.
  brew           Execute brew command, and update BREWFILE.
  init           or dump/-i/--init
                  Initialize/Update BREWFILE with installed packages.
  set_repo       or -s/--set_repo
                  Set BREWFILE repository (e.g. rcmdnk/Brewfile).
  pull           Update BREWFILE from the repository.
  push           Push your BREWFILE to the repository.
  clean         or -c/--clean
                  Cleanup.
                  Uninstall packages not in the list.
                  Untap packages not in the list.
                  Cleanup cache (brew cleanup)
                  By default, cleanup runs as dry-run.
                  If you want to enforce cleanup, use '-C' option.
  update        or -u/--update
                  Do brew update/upgrade, pull, install,
                  init and push.
                  In addition, pull and push
                  will be done if the repository is assigned.
                  'clean' is also executed after install if you give -C option.
  edit          or -e/--edit
                  Edit input files.
  cat           or --cat
                  Show contents of input files.
  casklist      Check applications for Cask.

```

cask_upgrade	Check updates of cask applications. With -C, upgrade is enforced (old versions will be removed).
test	or --test. Used for test.
get_files	Get Brewfile's full path, including additional files.
commands	or --commands Show commands.
version	or -v/--version Show version.
help	or -h/--help Print Help (this message) and exit.

Check <https://homebrew-file.readthedocs.io> for more details.

Homebrew-file module index

Brew-file: Manager for packages of Homebrew <https://github.com/rcmdnk/homebrew-file>

requirement: Python 2.7 or later

class `BrewFile.BrewFile`

Main class of Brew-file.

ask_yn (*question*)

Helper for yes/no.

cask_upgrade ()

Upgrade cask applications

cat_brewfile ()

Cat brewfiles

check_brew_cmd ()

Check Homebrew

check_cask ()

Check applications for Cask

check_cask_cmd (*force=False*)

Check cask is installed or not

check_gem_cmd (*force=False*)

Check gem is installed or not

check_github_repo ()

helper to check and create GitHub repository.

check_input_file ()

Check input file

check_mas_cmd (*force=False*)

Check mas is installed or not

check_pip_cmd (*force=False*)

Check pip is installed or not

check_repo ()
Check input file for GitHub repository.

clean_list ()
Remove duplications between brewinfo.list to extra files' input

cleanup ()
Clean up.

edit_brewfile ()
Edit brewfiles

execute ()
Main execute function

find_app (app, taps, casks, nonapp_casks, casks_noinst, nonapp_casks_noinst)
Helper function for Cask

find_brew_app (name, tap)
Helper function for Cask to find app installed by brew install

get_appstore_list ()
Get AppStore Application List

get_cask_list (force=False)
Get Cask List

get_files (is_print=False)
Get Brewfiles

get_list ()
Get List

initialize (check=True)
Initialize Brewfile

install ()
Install

make_pack_deps ()
Make package dependencies

parse_env_opts (env_var, base_opts=None)
Returns a dictionary parsed from an environment variable

remove (path)
Helper to remove file/directory.

repo_file ()
Helper to build Brewfile path for the repository.

repomgr (cmd='')
Helper of repository management.

set_args (kw)**
Set arguments.

set_brewfile_repo ()
Set Brewfile repository

class BrewFile.BrewHelper (opt)
Helper functions for BrewFile.

proc (*cmd*, *print_cmd=True*, *print_out=True*, *exit_on_error=True*, *separate_err_msg=False*, *verbose_level=1*, *env={}*)
Get process output.

class BrewFile.**BrewInfo** (*helper*, *filename=''*)
Homebrew information storage.

get_option (*package*, *package_info=''*)
get install options from brew info

get_tap (*tap*)
Helper for tap configuration file

get_tap_path (*tap*)
Get tap path

class BrewFile.**Tee** (*out1*, *out2=<open file '<stdout>', mode 'w'>*, *use2=True*)
Module to write out in two ways at once.

close ()
Close output files.

flush ()
Flush the output

write (*text*)
Write w/o line break.

writeln (*text*)
Write w/ line break.

BrewFile.**my_decode** (*word*)
Decode when python3 is used.

BrewFile.**my_input** (*word*)
Input method compatibility.

BrewFile.**open_output_file** (*name*, *mode='w'*)
Helper function to open a file even if it doesn't exist.

b

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