

# Bashmatic Usage Docs (v2.3.0)

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NOTICE: [shdoc](#) documentation is auto-extracted from the Bashmatic Sources.

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## File lib/file.sh

- [file.temp\(\)](#)
- [file.normalize-files\(\)](#)
- [file.ask.if-exists\(\)](#)

### file.temp()

Creates a temporary file and returns it as STDOUT

### file.normalize-files()

This function will rename all files passed to it as follows: spaces are replaced by dashes, non printable characters are removed, and the filename is lower cased.

#### Example

```
file.normalize-files "My Word Document.docx"
# my-word-document.docx
```

### file.ask.if-exists()

Ask the user whether to overwrite the file

---

## File lib/pids.sh

- [pids.stop-by-listen-tcp-ports\(\)](#)
- [pid.stop-if-listening-on-port\(\)](#)

### pids.stop-by-listen-tcp-ports()

Finds any PID listening on one of the provided ports and stop them.

---

## Example

```
pid.stop-by-listen-tcp-ports 4232 9578 "${PORT}"
```

## pid.stop-if-listening-on-port()

Finds any PID listening the one port and an optional protocol (tcp/udp)

## Example

```
pid.stop-if-listening-on-port 3000 tcp  
pid.stop-if-listening-on-port 8126 udp
```

---

## File lib/bashit.sh

- [bashit-prompt-terraform\(\)](#)
- [bashit-install\(\)](#)

## bashit-prompt-terraform()

Possible Bash It Powerline Prompt Modules

aws\_profile battery clock command\_number cwd dirstack gcloud go history\_number hostname in\_toolbox  
in\_vim k8s\_context last\_status node python\_venv ruby scm shlvl terraform user\_info wd

## bashit-install()

Installs Bash-It Framework

---

## File lib/array.sh

- [array.has-element\(\)](#)
- [array.includes\(\)](#)
- [array.join\(\)](#)
- [array.sort\(\)](#)
- [array.sort-numeric\(\)](#)
- [array.min\(\)](#)

- `array.force-range()`
- `array.max()`
- `array.uniq()`
- `array.from.command()`

## `array.has-element()`

Returns "true" if the first argument is a member of the array passed as the second argument:

### Example

```
$ declare -a array=("a string" test2000 moo)
if [[ $(array.has-element "a string" "${array[@]}") == "true" ]]; then
...
fi
```

## `array.includes()`

Similar to `array.has-elements`, but does not print anything, just returns 0 if includes, 1 if not.

## `array.join()`

Joins a given array with a custom string.

### Example

```
$ declare -a array=(one two three)
$ array.join " " "${array[@]}"
$ array.join " -> " true "${array[@]}"
-> one
-> two
-> three
```

### Arguments

- `@arg1`
- `@arg2`
- `@arg3 .`

## `array.sort()`

Sorts the array alphanumerically and prints it to STDOUT

## Example

```
declare -a unsorted=(hello begin again again)
local sorted="$(array.sort "${unsorted[@]}")"
```

## array.sort-numeric()

Sorts the array numerically and prints it to STDOUT

## Example

```
declare -a unsorted=(1 2 34 45 6)
local sorted="$(array.sort-numeric "${unsorted[@]}")"
```

## array.min()

Returns a minimum integer from an array. Non-numeric elements are ignored and skipped over. Negative numbers are supported, but non-integers are not.

## Example

```
$ declare -a array=(10 20 30 -5 5)
$ array.min " " "${array[@]}"
-5
```

## array.force-range()

Given a numeric argument, and an additional array of numbers, determines the min/max range of the array and prints out the number if it's within the range of array's min and max. Otherwise prints out either min or max.

## Example

```
$ array.force-range 26 0 100
# => 26
$ array.force-range 26 60 100
# => 60
```

## array.max()

Returns a maximum integer from an array. Non-numeric elements are ignored and skipped over. Negative numbers are supported, but non-integers are not.

## Example

```
$ declare -a array=(10 20 30 -5 5)
$ array.min "," "${array[@]}"
30
```

## array.uniq()

Sorts and uniqs the array and prints it to STDOUT

## Example

```
declare -a unsorted=(hello hello hello goodbye)
local uniqed="$(array.sort-numeric "${unsorted[@]}")"
```

## array.from.command()

Creates an array variable, where each element is a line from a command output, which includes any spaces.

## Example

```
array.from.command music_files "find . -type f -name '*.mp3'"
echo "You have ${#music[@]} music files."
```

---

## File lib/asciidoc.sh

Provides helper functions for dealing with asciidoc format.

- [asciidoc.rouge-themes\(\)](#)

## asciidoc.rouge-themes()

Installs gem "rouge" and prints all available themes

---

## File lib/output-utils.sh

- [is-dbg\(\)](#)
- [dbg\(\)](#)



## is-dbg()

Checks if we have debug mode enabled

## dbg()

Local debugging helper, activate it with DEBUG=1

---

## File lib/audio.sh

### lib/audio.sh

Audio conversions routines.

- [audio.file.frequency\(\)](#)
- [audio.make.mp3s\(\)](#)
- [audio.make.mp3\(\)](#)
- [audio.file.mp3-to-wav\(\)](#)
- [audio.dir.mp3-to-wav\(\)](#)
- [.audio.karaoke.format\(\)](#)
- [audio.dir.rename-wavs\(\)](#)
- [audio.dir.rename-karaoke-wavs\(\)](#)

## audio.file.frequency()

Given a music audio file, determine its frequency.

## audio.make.mp3s()

Given a folder of MP3 files, and an optional KHz specification, perform a sequential conversion from AIF/WAV format to MP3.

### Example

```
audio.wav-to-mp3 [ file.wav | file.aif | file.aiff ] [ file.mp3 ]
```

## audio.make.mp3()

Converts one AIF/WAV file to high-rez 320 Kbps MP3

## audio.file.mp3-to-wav()

Decodes a folder with MP3 files back into WAV

## audio.dir.mp3-to-wav()

assume a folder with a bunch of MP3s in subfolders

### Example

```
same folder structure but under /Volumes/SDCARD.
```

## .audio.karaoke.format()

Rename function for one filename to another. This particular function deals with files of this format: Downloaded from [karaoke-version.com](http://karaoke-version.com):

### Example

```
.audio.karaoke.format "Michael_Jackson_Billie_Jean(Drum_Backing_Track_(Drum_only))_248921.wav"  
=> michael_jackson_billie_jean--drum_backing_track-drum_only.wav
```

## audio.dir.rename-wavs()

This function receives a format specification, and an optional directory as a second argument. Format specification is meant to map to a function `.audio.<format>.format` that's used as follows: `.audio.<format>.format "file-name" => "new file name"`

### Example

```
audio.dir.rename-wavs karaoke ~/Karaoke
```

## audio.dir.rename-karaoke-wavs()

Renames wav files in the current folder (or the folder passed as an argument, based on the naming scheme downloaded from [karaoke-version.com](http://karaoke-version.com)

### Example

```
audio.dir.rename-karaoke-wavs "~/Karaoke"
```

---

## File lib/brew.sh

- `package.is-installed()`

### `package.is-installed()`

For each passed argument checks if it's installed.

---

## File lib/output.sh

- `section()`

### `section()`

Prints a "arrow-like" line using powerline characters

#### Arguments

- @arg1 Width (optional) — only interpreted as width if the first argument is a number.
  - @args Text to print
- 

## File lib/video.sh

### lib/video.sh

Video conversions routines.

- `.video.install-deps()`
  - `.video.convert.compress-shrinkwrap()`
  - `.video.convert.compress-11()`
  - `.video.convert.compress-12()`
  - `.video.convert.compress-13()`
  - `.video.convert.compress-21()`
  - `.video.convert.compress-22()`
  - `.video.convert.compress-23()`
  - `.video.convert.compress-3()`
-

- [video.convert.compress\(\)](#)

## **.video.install-deps()**

Installs ffmpeg

## **.video.convert.compress-shrinkwrap()**

Named after the author of a similar tool that does this:

## **.video.convert.compress-11()**

Given two arguments (from), (to), performs a video recompression

## **.video.convert.compress-12()**

Given two arguments (from), (to), performs a video recompression

## **.video.convert.compress-13()**

Given two arguments (from), (to), performs a video recompression

## **.video.convert.compress-21()**

Given two arguments (from), (to), performs a video recompression

## **.video.convert.compress-22()**

Given two arguments (from), (to), performs a video recompression

## **.video.convert.compress-23()**

Given two arguments (from), (to), performs a video recompression

## **.video.convert.compress-3()**

Given two arguments (from), (to), performs a video recompression

## **video.convert.compress()**

Given two arguments (from), (to), performs a video recompression according to the algorithm in the second argument.

### **Example**

## File lib/path.sh

Utilities for managing the \$PATH variable

- `path.strip-slash()`
- `path.dirs()`
- `path.dirs.size()`
- `path.dirs.uniq()`
- `path.dirs.delete()`
- `path.uniq()`
- `path.append()`
- `path.prepend()`
- `path.mutate.uniq()`
- `path.mutate.delete()`
- `path.mutate.append()`
- `path.mutate.prepend()`
- `PATH_add()`

### `path.strip-slash()`

Removes a trailing slash from an argument path

### `path.dirs()`

Prints a new-line separated list of paths in PATH

#### Arguments

- `@arg1` A path to split, defaults to \$PATH

### `path.dirs.size()`

Prints the total number of paths in the path argument, which defaults to \$PATH

## `path.dirs.uniq()`

Prints all folders in \$PATH, one per line, removing any duplicates, Does not mutate the \$PATH

## `path.dirs.delete()`

Deletes any number of folders from the PATH passed as the first string argument (defaults to \$PATH). Does not mutate the \$PATH, just prints the result to STDOUT

### Arguments

- @arg1 String representation of a PATH, eg `"/bin:/usr/bin:/usr/local/bin"`
- @arg2 An array of paths to be removed from the PATH

## `path.uniq()`

Removes duplicates from the \$PATH (or argument) and prints the results in the PATH format (column-joined). DOES NOT mutate the actual \$PATH

## `path.append()`

Appends a new directory to the \$PATH and prints the result to STDOUT, Does NOT mutate the actual \$PATH

## `path.prepend()`

Prepends a new directory to the \$PATH and prints to STDOUT, If one of the arguments already in the PATH its moved to the front. DOES NOT mutate the actual \$PATH

## `path.mutate.uniq()`

Removes any duplicates from \$PATH and exports it.

## `path.mutate.delete()`

Deletes paths from the PATH provided on the command line

## `path.mutate.append()`

Appends valid directories to those in the PATH, and exports the new value of the PATH

## `path.mutate.prepend()`

Prepends valid directories to those in the PATH, and exports the new value of the PATH

## PATH\_add()

This function exists within direnv, but since we are sourcing in .envrc we need to have this defined to avoid errors.

---

## File lib/osx.sh

OSX Specific Helpers and Utilities

- [osx.app.is-installed\(\)](#)

## osx.app.is-installed()

Checks if a given parameter matches any of the installed applications under /Applications and ~/Applications

By the default prints the matched application. Pass -q as a second argument to disable output.

### Example

```
> osx.app.is-installed safari
Safari.app
> osx.app.is-installed safari -q && echo installed
installed
> osx.app.is-installed microsoft -c
6
```

### Arguments

- \$1 (a): string value to match (case insentively) for an app name
- \$2.. additional arguments to the last invocation of grep

### Exit codes

- 0: if match was found
  - 1: if not
- 

## File lib/db.sh

- [db.config.parse\(\)](#)
- [db.psql.connect\(\)](#)

- `db.psql.connect.just-data()`
- `db.psql.connect.table-settings-set()`
- `db.psql.db-settings()`
- `db.psql.connect.db-settings-pretty()`
- `db.psql.connect.db-settings-toml()`
- `db.actions.run-multiple()`
- `db.actions.pga()`

## db.config.parse()

Returns a space-separated values of db host, db name, username and password

### Example

```
db.config.set-file ~/.db/database.yml
db.config.parse development
#=> hostname dbname dbuser dbpass
declare -a params=($(db.config.parse development))
echo ${params[0]} # host
```

## db.psql.connect()

Connect to one of the databases named in the YAML file, and optionally pass additional arguments to psql. Informational messages are sent to STDERR.

### Example

```
db.psql.connect production
db.psql.connect production -c 'show all'
```

## db.psql.connect.just-data()

Similar to the `db.psql.connect`, but outputs just the raw data with no headers.

### Example

```
db.psql.connect.just-data production -c 'select datname from pg_database;'
```

## db.psql.connect.table-settings-set()

Set per-table settings, such as autovacuum, eg:



## Example

```
db.psql.connect.table-settings-set prod users autovacuum_analyze_threshold 1000000  
db.psql.connect.table-settings-set prod users autovacuum_analyze_scale_factor 0
```

## db.psql.db-settings()

Print out PostgreSQL settings for a connection specified by args

## Example

```
db.psql.db-settings -h localhost -U postgres appdb
```

## db.psql.connect.db-settings-pretty()

Print out PostgreSQL settings for a named connection

## Example

```
db.psql.connect.db-settings-pretty primary
```

## Arguments

- @arg1 dbname database entry name in ~/.db/database.yml

## db.psql.connect.db-settings-toml()

Print out PostgreSQL settings for a named connection using TOML/ini format.

## Example

```
db.psql.connect.db-settings-toml primary > primary.ini
```

## Arguments

- @arg1 dbname database entry name in ~/.db/database.yml

## db.actions.run-multiple()

Executes multiple commands by passing them to psql each with -c flag. This allows, for instance, setting session values, and running commands such as VACUUM which can not run within an implicit transaction started when joining multiple statements with ";

## Example

```
$ db -q run my_database 'set default_statistics_target to 10; show default_statistics_target; vacuum users'
ERROR: VACUUM cannot run inside a transaction block
```

## db.actions.pga()

Installs (if needed) pg\_activity and starts it up against the connection

---

## File lib/shdoc.sh

### lib/shdoc.sh

Helpers to install gawk and shdoc properly.0

see `${BASHMATIC_HOME}/lib/shdoc.md` for an example of how to use SHDOC. and also [project's github page](#).

- [gawk.install\(\)](#)

## gawk.install()

Installs gawk into /usr/local/bin/gawk

---

## File lib/git.sh

- [git.cfgu\(\)](#)
- [git.open\(\)](#)

## git.cfgu()

Sets or gets user values from global gitconfig.

## Example

```
git.cfgu email
git.cfgu email kigster@gmail.com
git.cfgu
```

## git.open()

Reads the remote of a repo by name provided as an argument (or defaults to "origin") and opens it in the browser.

### Example

```
git clone git@github.com:kigster/bashmatic.git
cd bashmatic
source init.sh
git.open
git.open origin # same thing
```

### Arguments

- \$1 (optional): name of the remote to open, defaults to "origin"
- 

## File lib/package.sh

- `package.ensure.is-installed()`
- `package.ensure.command-available()`

### package.ensure.is-installed()

fr

### package.ensure.command-available()

### Example

```
In this example we skip installation if 'gem' exists and in the PATH.
Otherwise we install the package and retry, and return if not found
```

## File lib/time.sh

- `time.with-duration.start()`

## time.with-duration.start()

Starts a time for a given name space

### Example

```
time.with-duration.start moofie
# ... time passes
time.with-duration.end   moofie 'Moofie is now this old: '
# ... time passes
time.with-duration.end   moofie 'Moofie is now very old: '
time.with-duration.clear moofie
```

---

## File lib/shasum.sh

SHA Functions

SHASUM related functions, that compute SHA for a single file, collection of files, or entire directories.

- [shasum.set-command\(\)](#)
- [shasum.set-algo\(\)](#)
- [shasum.sha\(\)](#)
- [shasum.sha-only\(\)](#)
- [shasum.sha-only-stdin\(\)](#)
- [shasum.to-hash\(\)](#)
- [shasum.all-files\(\)](#)
- [shasum.all-files-in-dir\(\)](#)

## shasum.set-command()

Override the default SHA command and algorithm Default is shasum -a 256

## shasum.set-algo()

Override the default SHA algorithm

### Example

```
$ shasum.set-algo 256
```

## shasum.sha()

Compute SHA for all given files, ignore STDERR NOTE: first few arguments will be passed to the shasum command, or whatever you set via shasum.set-command.

## shasum.sha-only()

Print SHA ONLY removing the file components

## shasum.sha-only-stdin()

Print SHA ONLY removing the file components

## shasum.to-hash()

This function populates a pre-declare associative array with filenames mapped to their SHAs, but only in the current directory Call dbg-on to enable additional debugging info.

### Example

```
$ declare -A file_shas
$ shasum.to-hash file_shas $(find . -type f -maxdepth 2)
$ echo "Total of ${#file_shas[@]} files in the hash"
```

## shasum.all-files()

For a given array of files, sort them, take a SHA of each file, and return a single SHA finger-printing this set of files. # NOTE: the files are sorted prior to hashing, so the return SHA should ONLY change when files are either changed, or added/removed. Only computes SHA of the files provided, does not recurse into folders

### Example

```
$ shasum.all-files *.cpp
```

## shasum.all-files-in-dir()

For a given directory and an optional file pattern, use find to grab every single file (that matches optional pattern) and return a single SHA

### Example

```
$ shasum.all-files-in-dir . '*.pdf'
cc35aad389e61942c75e111f1eddb634d74b4b1
```

---

## File lib/color.sh

- `color.current-background()`

### `color.current-background()`

Prints the background color of the terminal, assuming terminal responds to the escape sequence. More info: <https://stackoverflow.com/questions/2507337/how-to-determine-a-terminals-background-color>

---

## File lib/pg.sh

- `pg.is-running()`
- `pg.running.server-binaries()`
- `pg.running.data-dirs()`
- `pg.server-in-path.version()`

### `pg.is-running()`

Returns true if PostgreSQL is running locally

### `pg.running.server-binaries()`

if one or more PostgreSQL instances is running locally, prints each server's binary postgres file path

### `pg.running.data-dirs()`

For each running server prints the data directory

### `pg.server-in-path.version()`

Grab the version from postgres binary in the PATH and remove fractional sub-version

---

## File lib/dir.sh

- `dir.short-home()`

## dir.short-home()

Replaces the first part of the directory that matches \${HOME} with '~/'

---

## File lib/config.sh

- [config.get-format\(\)](#)
- [config.set-file\(\)](#)
- [config.get-file\(\)](#)
- [config.dig\(\)](#)
- [config.dig.pretty\(\)](#)

## config.get-format()

Get current format

## config.set-file()

Set the default config file

## config.get-file()

Get the file name

## config.dig()

Reads the value from a two-level configuration hash

### Arguments

- @arg1 hash key
- @arg2 hash sub-key

## config.dig.pretty()

Uses jq utility to format JSON with color, supports partial

---

## File `lib/net.sh`

- [net.is-host-port-protocol-open\(\)](#)

### `net.is-host-port-protocol-open()`

Uses pingless connection to check if a remote port is open Requires sudo for UDP

#### Arguments

- @arg1 host
  - @arg2 port
  - @arg3 [optional] protocol (defaults to "tcp", supports also "udp")
- 

## File `lib/is.sh`

Various validations and asserts that can be chained and be explicit in a DSL-like way.

- `<<isvalidationerror,is.validation.error(>>`
- [is-validations\(\)](#)
- `<<isvalidationignore-error,is.validation.ignore-error(>>`
- `<<isvalidationreport-error,is.validation.report-error(>>`
- [whenever\(\)](#)

### `__is.validation.error()`

Invoke a validation on the value, and process the invalid case using a customizable error handler.

#### Arguments

- @arg1 func Validation function name to invoke
- @arg2 var Value under the test
- @arg4 error\_func Error function to call when validation fails

#### Exit codes

- 0: if validation passes



## is-validations()

Returns the list of validation functions available

## \_\_is.validation.ignore-error()

Private function that ignores errors

## \_\_is.validation.report-error()

Private function that ignores errors

## whenever()

a convenient DSL for validating things

### Example

```
whenever /var/log/postgresql.log is.an-empty-file && {  
  touch /var/log/postgresql.log  
}
```

---

## File lib/util.sh

Miscellaneous utilities.

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## File lib/pdf.sh

# Bashmatic Utilities for PDF file handling

Install and uses GhostScript to manipulate PDFs.

- [pdf.combine\(\)](#)

## pdf.combine()

Combine multiple PDFs into a single one using ghostscript.

## Example

```
pdf.combine ~/merged.pdf 'my-book-chapter*'
```

## Arguments

- **\$1** (pathname): to the merged file
  - ... (the): rest of the PDF files to combine
- 

## File bin/install-direnv

Add direnv hook to shell RC files

- [direnv.register\(\)](#)

## `direnv.register()`

Add direnv hook to shell RC files

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## File bin/regen-usage-docs

Regenerates USAGE.adoc && USAGE.pdf

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## File bin/pdf-reduce

- [pdf.do.shrink\(\)](#)

## `pdf.do.shrink()`

shrinks PDF

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## File bin/scheck

- [manual-install\(\)](#)
-

# manual-install()

Manually Download and Install ShellCheck

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