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**doitlive**  
*Release 4.2.1*

**Dec 23, 2018**



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## Contents

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<b>1</b>	<b>Get it now</b>	<b>3</b>
<b>2</b>	<b>Quickstart</b>	<b>5</b>
<b>3</b>	<b>Examples</b>	<b>7</b>
<b>4</b>	<b>Using the recorder</b>	<b>9</b>
<b>5</b>	<b>Themes</b>	<b>11</b>
<b>6</b>	<b>Comment magic (configuration)</b>	<b>13</b>
<b>7</b>	<b>Python mode</b>	<b>17</b>
<b>8</b>	<b>IPython mode</b>	<b>19</b>
<b>9</b>	<b>Shell completion</b>	<b>21</b>
<b>10</b>	<b>More</b>	<b>23</b>
<b>11</b>	<b>Project info</b>	<b>25</b>



Because sometimes you need to do it live

Current version: v4.2.1. *doitlive* is a tool for live presentations in the terminal. It reads a file of shell commands and replays the commands in a fake terminal session as you type random characters.

- *Get it now*
- *Quickstart*
- *Examples*
- *Using the recorder*
- *Themes*
- *Comment magic (configuration)*
- *Python mode*
- *IPython mode*
- *Shell completion*
- *More*
- *Project info*



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Get it now

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## 1.1 macOS with Homebrew:

```
$ brew update  
$ brew install doitlive
```

## 1.2 With pip:

```
$ pip install doitlive
```

Requires Python  $\geq 2.7$  or  $\geq 3.5$  with pip.





## CHAPTER 2

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### Quickstart

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1. Create a file called `session.sh`. Fill it with bash commands.
2. Run `doitlive play session.sh`.

```
$ doitlive play session.sh
```

3. Type like a madman.



## CHAPTER 3

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### Examples

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```
# Use the "sorin" prompt theme
$ doitlive play session.sh -p sorin

# Increase speed
$ doitlive play session.sh -s 3

# Use zsh
$ doitlive play session.sh --shell /bin/zsh
```



## CHAPTER 4

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### Using the recorder

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You can record session files using the built-in recorder command.

```
$ doitlive record
```

This will start a recording session. When you are finished recording, run the `stop` command. All commands will be written to a `session.sh` file.

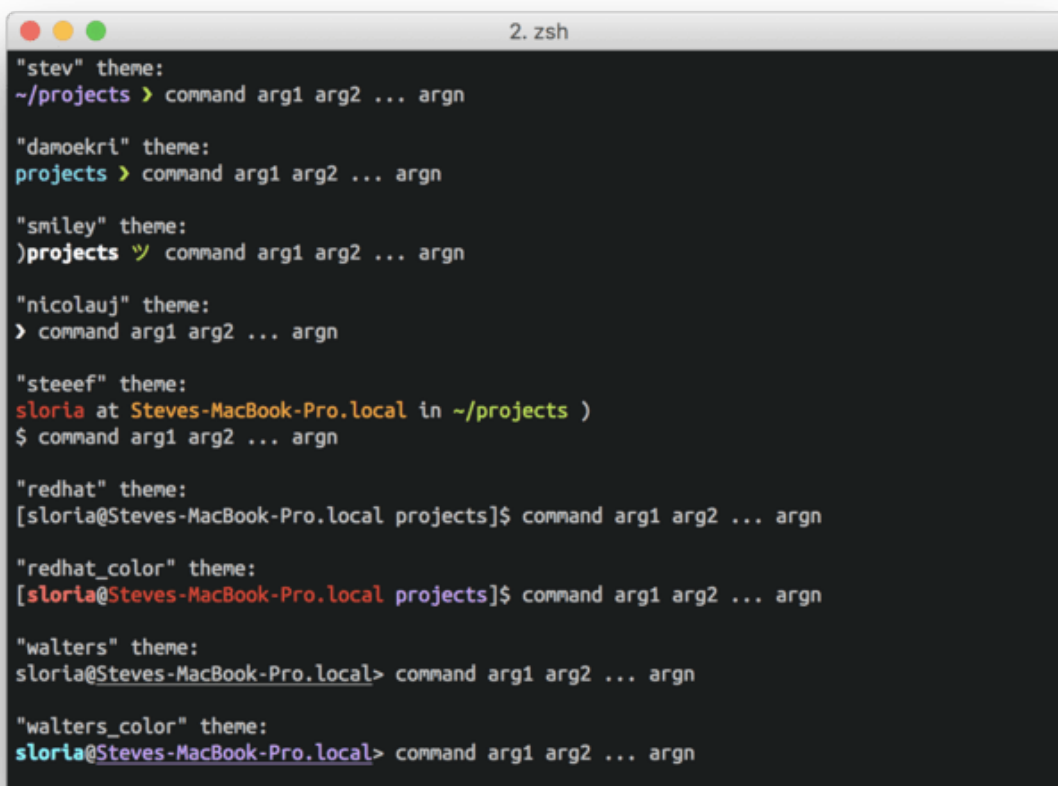


## CHAPTER 5

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### Themes

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```
2. zsh
"stev" theme:
~/projects > command arg1 arg2 ... argn

"danoekri" theme:
projects > command arg1 arg2 ... argn

"smiley" theme:
)projects ʘ command arg1 arg2 ... argn

"nicolauj" theme:
> command arg1 arg2 ... argn

"steef" theme:
sloria at Steves-MacBook-Pro.local in ~/projects )
$ command arg1 arg2 ... argn

"redhat" theme:
[sloria@Steves-MacBook-Pro.local projects]$ command arg1 arg2 ... argn

"redhat_color" theme:
[sloria@Steves-MacBook-Pro.local projects]$ command arg1 arg2 ... argn

"walters" theme:
sloria@Steves-MacBook-Pro.local> command arg1 arg2 ... argn

"walters_color" theme:
sloria@Steves-MacBook-Pro.local> command arg1 arg2 ... argn
```

doitlive comes with many prompt themes. To use a theme:

```
$ doitlive play session.sh -p <theme_name>
```

You can also change a session's theme by using a comment directive (see *Comment magic* below).

To view a list of available themes, run `doitlive themes` or `doitlive themes --preview`.



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## Comment magic (configuration)

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Any line in a session file that begins with # is a comment. Comments are ignored unless they begin with `#doitlive`, in which case they are used to configure the session.

The following options are available (all are optional).

### 6.1 `#doitlive speed: <int>`

configures “typing” speed. Defaults to 1.

Example:

```
#doitlive speed: 3
```

### 6.2 `#doitlive prompt: <theme_name_or_template>`

configures the prompt. Can be any of the built-in themes or a custom prompt template.

Example:

```
#doitlive prompt: stev
```

#### Using a custom template:

You can provide the `prompt` option with a custom template. To include the user, hostname, current directory, current path to working directory, current datetime, or vcs branch (git or Mercurial), use `{user}`, `{hostname}`, `{dir}`, `{cwd}`, `{now}`, and `{vcs_branch}`, respectively.

For git, `{vcs_branch}` just shows the branch. For Mercurial, this shows the branch name + the bookmark, except it omits the default branch name if there is a bookmark. This is equivalent to `{git_branch}{hg_id}`. There are also specialised `{hg_branch}`, and `{hg_bookmark}` keywords that only show that information, without the combined logic of `{hg_id}`.

Example:

```
#doitlive prompt: {user} is at {cwd} $
```

Any of the prompt variables can be formatted with ANSI styles, like so:

Example:

```
#doitlive prompt: {user.cyan}@{hostname.green}:{dir.bold.magenta} $
```

Newlines can be included in prompts using `{nl}`.

Example:

```
#doitlive prompt: {user}:{dir}{nl}$
```

Available styles: blue, magenta, red, white, green, black, yellow, cyan, bold, blink, underlined, dim, paren, square, curly, inverse, git, and hg.

### 6.3 #doitlive shell: <shell>

configures which shell is use. Defaults to the `$SHELL` environment variable.

Example:

```
#doitlive shell: /bin/zsh
```

### 6.4 #doitlive alias: <alias>=<command>

adds an alias to the session.

Example:

```
#doitlive alias: du="du -ach | sort -h"
```

### 6.5 #doitlive env: <envvar>=<value>

sets an environment variable.

Example:

```
#doitlive env: EDITOR=vim
```

### 6.6 #doitlive unalias: <alias>

removes an alias.

## 6.7 #doitlive unset: <envvar>

unsets an environment variable.

## 6.8 #doitlive commentecho: [true|false]

Whether to echo comments or not. If enabled, non-magic comments will be echoed back in bold yellow before each prompt. This can be useful for providing some annotations for yourself and the audience.



## CHAPTER 7

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### Python mode

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doitlive supports autotyping in a Python console. You can enter Python mode in a session by enclosing Python code in triple-backticks, like so:

```
# in session.sh

echo "And now for something completely different"

```python
list = [2, 4, 6, 8]
sum = 0
for num in list:
    sum = sum + num

print("The sum is: {}".format(sum=sum))
```
```



## CHAPTER 8

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### IPython mode

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If you have IPython installed, you can run doitlive in `ipython` mode. Just enclose your Python code in triple-backticks, like so:

```
# in session.sh

```ipython
def fib(n):
    a, b = 0, 1
    while a < n:
        print(a, end=' ')
        a, b = b, a+b
    print()

# Magic!
%time fib(100)

```
```

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**Note:** Only IPython>=5.0,<7.0 is supported.

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### Shell completion

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**Note:** If you installed doitlive with Homebrew, bash and zsh completion are already installed.

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Shell completion is available for bash, zsh, and fish.

For bash or zsh, add the following to your `.bashrc` or `.zshrc`:

```
eval "$ (doitlive completion) "
```

For fish, add the following to `~/.config/fish/completions/doitlive.fish`:

```
eval (doitlive completion)
```



## CHAPTER 10

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More

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For more options, run

```
$ doitlive --help
```

You can also get help with subcommands.

```
$ doitlive play --help
```



## 11.1 Changelog

### 11.1.1 4.2.1 (2018-12-22)

Bug fixes:

- Fix behavior of `commentecho` when a comment includes quote characters.

### 11.1.2 4.2.0 (2018-11-08)

- Add `deadsimple` theme (#97). Thanks @Aversiste.

Other changes:

- Test against Python 3.7.

### 11.1.3 4.1.0 (2018-10-25)

Features:

- Support bright colors in prompt templates.

Bug fixes:

- Fix compatibility with `click`  $\geq 7.0$ .

### 11.1.4 4.0.1 (2018-05-22)

Bug fixes:

- Ctrl-Z suspends `doitlive` (#44). Thanks @emanuelhouse for reporting.

- Fix help text for `--shell` option (#43).

### 11.1.5 4.0.0.post0 (2018-05-14)

- Distribute a universal wheel.
- Minor docs updates.

### 11.1.6 4.0.0 (2018-05-13)

Features:

- Add shell completion for bash, zsh, and fish (#3).
- Add “Did you mean” suggestions.
- Support setting environment variables with `export` commands (#32). Thanks @asmacdo for the suggestion.
- Support setting aliases with `alias` commands (#40).

Bug fixes:

- Fix exiting a command such as `watch` with `ctrl-c` during a session (#29). Thanks @zigarn for the catch and patch.

Other changes:

- Drop official support for Python 3.3 and 3.4. Python 2.7 and  $\geq 3.5$  are supported.
- Lots of internal re-organization of modules.

### 11.1.7 3.0.3 (2017-11-08)

Bug fixes:

- `-quiet` options suppresses ending message (#26). Thanks @technovangelist for reporting and thanks @PandaWhoCodes for the PR.
- Fix installation issue on Windows (#4). Thanks @eXigentCoder for reporting.

### 11.1.8 3.0.2 (2017-10-17)

Bug fixes:

- Fix ‘cd-ing’ to paths with an envvar (#24). Thanks @utdrmac for reporting.
- Fix behavior of `cd -`
- Fix behavior of `Ctrl-C` after all commands have finished.

### 11.1.9 3.0.1 (2017-10-16)

Bug fixes:

- Fix behavior of Backspace key when `speed > 1`.
- Handle `KeyError` when `$HOME` is unset (#10). Thanks @Stefan-Code for reporting.

### 11.1.10 3.0.0 (2017-10-15)

- Support IPython $\geq$ 5.0 (#20). Drop support for IPython $<$ 5.0. Thanks @rplevka for reporting.
- Use `$SHELL` as the default interpreter for commands if not explicitly specified.
- Remove invalid import in `ipython` module. Thanks @axocomm.
- Fix exiting a session with Ctrl-C in Python 3.

### 11.1.11 2.8.0 (2017-10-08)

Bug fixes:

- Don't allow passing a `-speed` that is  $<$  1 (#17). Thanks @mblhaunted for reporting and thanks @Stefan-Code for the implementation suggestion.

### 11.1.12 2.7.0 (2017-03-07)

Features:

- Add `stev`, `damoekri`, and `smiley` themes.
- Modify `sorin` theme to be more like the original `prezto` theme.

Bug fixes:

- Prevent extra spacing when using `{vcs_branch}`, `{git_branch}`, or `{hg_branch}` in a custom prompt.

### 11.1.13 2.6.0 (2017-01-07)

Features:

- Prompt template variables can be styled with `.inverse`, e.g. `{user.inverse}`.
- Prompt templates can include `{nl}` for displaying new-lines. Thanks @andredias.

Other changes:

- Test against Python 3.6.

### 11.1.14 2.5.0 (2016-05-02)

Features

- Add `ipython` mode (#8).

### 11.1.15 2.4.0 (2015-10-18)

Features:

- Backspace key works during playback.

Bug fixes:

- Prevent `unicode_literals` import warning from click on Python 2 (#12, #13).
- Fix bug that caused some keystrokes to get echoed instead of swallowed (#6). Thanks @jordigh for reporting.

Other changes:

- Reorganized as a package. Added `termutils` and `version_control` modules.

Big thanks to [@Stefan-Code](#) for implementing these changes.

### 11.1.16 2.3.1 (2015-02-08)

- Fix bug that showed the incorrect prompt on the last slide if the theme was set using the `#doitlive prompt:` directive.

### 11.1.17 2.3.0 (2014-11-16)

- Add support for displaying Mercurial VCS info (current branch, bookmark)
- Add `commentecho` CLI option and magic comment.
- Add `--quiet` CLI option for suppressing the startup message.

### 11.1.18 2.2.1 (2014-08-02)

- Fix display of git branches on Python 3 (don't show `b` prefix).

### 11.1.19 2.2.0 (2014-07-13)

- Add `{TTY}` prompt variable that contains named constants for ANSI escape sequences.
- Add “giddie” theme.
- Add `help/H` command to the recorder console.

### 11.1.20 2.1.0 (2014-06-25)

- Python mode: Fenced code blocks can be played back in a fake Python console.
- Added ability to preview and undo commands during a recorder session.
- Current datetime (`{now}`) can be included in prompt.
- Added ‘pws’ theme.
- Added `--envvar` and `--alias` options to `record` command.
- Added `unalias` and `unset` comment directives.

### 11.1.21 2.0 (2014-06-21)

- Added session recorder (`doitlive record`).
- Improved interface.
- Sessions are played with `doitlive play <session_file>`.
- Deprecated `doitlive-demo`. Run `doitlive demo` instead.



- Deprecated `doitlive --themes` and `doitlive --themes-preview`. Run `doitlive themes` and `doitlive themes --preview` instead.
- Fix bug that raised an error when `cd`'ing into a non-existent directory.
- Remove extra spacing in prompt when not in a git directory.
- Added 'robbyrussell' theme.

### 11.1.22 1.0 (2014-06-18)

- Added themes!
- Prompt variables can have ANSI colors and styles.
- `{hostname}` can be included in prompt.
- `{git_branch}` can be included in prompt.
- Prompt variable `{full_cwd}` renamed to `{cwd}`.
- Prompt variable `{cwd}` renamed to `{dir}`.
- Short option for `--speed` is now `-s`.
- Short option for `--shell` is now `-S`.
- Changed default prompt.
- `run` and `magictype` receive `prompt_template` instead of a prompt function.
- Remove unnecessary `PromptState` class.

### 11.1.23 0.2.0 (2014-06-16)

- Add "speed" config option.
- Fix short option for "-shell".
- Custom prompts are colored.
- Remove unnecessary `-check-output` option, which was only used for testing.
- Fix bug where `cwd` would not update in custom prompts.

### 11.1.24 0.1.0 (2014-06-15)

- Initial release.

## 11.2 License

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- @axocomm @axocomm
- Thomas Ashish Cherian @PandaWhoCodes
- Alexandre Garnier @zigarn
- Tristan Le Guern @Aversiste

## 11.4 Kudos

- Idea came from Jordi Hermoso's "Revssets" talk at PyCon 2014.
- Armin Ronacher's `click` library made this quick to implement.
- Themes inspired by Sorin Ionescu's `prezto zsh` themes.
- Hat tip to related projects `HackerTyper` and `PlayerPiano`.