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# **QDG Documentation**

***Release latest***

**Apr 11, 2022**



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Diceware passphrases from quantum random data

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# CHAPTER 1

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## Features

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- Simulates dice rolls by gathering quantum data.
- Includes the standard Diceware Complete wordlist consisting of 7776 short words, abbreviations and easy-to-remember character strings.
- Generate passphrases from custom wordlists.
- Customize passphrase output with selectable length.

*Python 3.6 or better is required.*





## CHAPTER 2

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### How to Install

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#### Using pip

```
$ pip install quantumdiceware
```

#### Building from source

```
$ wget --no-check-certificate --content-disposition https://github.com/justinsloan/  
↳QDG/archive/master.zip  
$ unzip -a master.zip  
$ cd ./QDG-master  
$ python3 setup.py install
```



## CHAPTER 3

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### Basic Usage Examples

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Generate a Passphrase

```
$ qdg
```

Generate five Passphrases and save them to output.txt

```
$ qdg -c 5 > output.txt
```

Generate two Passphrases that are eight words long

```
$ qdg -c 2 -w 8
```



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## Options

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By default, QDG will use quantum data to generate one passphrase consisting of six words selected from the Diceware Complete list. The default behavior requires an internet connection for gathering quantum data.

**[-c, -count]** Specify the number of passphrases to generate. By default, QDG will only generate one (1) passphrase each time it is run.

**[-w, -word]** Specify the length of the passphrase to generate. By default, QDG will generate passphrases with a length of six (6) words. The ‘-word’ option allows you to specify any number of words you prefer. This option will apply to all passphrases generated when used with the ‘-count’ option.

**[-f, -file]** Specify a custom wordlist file. Custom wordlist files should be in plain text format with one dice roll per line. There are many alternate and foreign language wordlists available on the official [Diceware](#) website.

```
$ qdg --file ./alt_wordlist.txt
```

**[-l, -local]** Use locally obtained random data. This is useful if there is no internet connection available or if local data is preferred.

**[-v, -verbose]** Activates verbose mode. Dice rolls will be displayed along with the passphrase so they can easily be compared to the wordlist.

```
$ qdg -l -v
Using local random data...
Dice Rolls: 54642
Dice Rolls: 14415
Dice Rolls: 35165
Dice Rolls: 51352
Dice Rolls: 55552
Dice Rolls: 52242
soma blown karen rasa stoop rondo
```

**[-char]** Specify the character that is placed between words in the passphrase. A space character is used by default, but just about any character or arbitrary text of any length may be used.

```
$qdg --char -  
vend-grist-hobby-mark-enamel-job  
$qdg --char ""  
vendgristhobbymarkenameljob  
$qdg --char "my text"  
vendmy textgristmy texthobbymy textmarkmy textenamelmy textjobmy text
```

**[-pretext]** Specify text to be added to the beginning of a passphrase.

**[-posttext]** Specify text to be added to the end of a passphrase.

**[-version]** Displays the version number and exits.

## CHAPTER 5

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### Where to Find Additional Support

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You can get personal support or submit a bug report on [GitHub Issues](#).





## CHAPTER 6

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### Version History

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0.2.0 BETA - added `--pretext` option - added `--posttext` option

0.1.9 (6 January 2018)

- added `--version` option
- improved verbose mode printing
- updated documentation, switched to `.rst` format

0.1.8 (5 January 2018)

- first build release