
prompt Documentation

Release 0.4.1

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Prompt and verify user input on the command line.

The project was initiated by Stefan Fischer.

Note: This project is still a work in progress.

Examples

1. Ask for a floating point number:

```
>>> prompt.real()  
? 0.02  
0.02
```

2. The prompt may be customized:

```
>>> prompt.integer(prompt="[0-9]+ ")  
[0-9]+ 42  
42
```

2. You can allow empty responses:

```
>>> prompt.string(empty=True)  
? <Enter>  
None
```

3. Ask for a password:

```
>>> prompt.secret(prompt="Enter your password: ")  
Enter your password:  
'$uper$ecretP@ssw0rd'
```

3. Invalid responses will be rejected:

```
>>> prompt.email()  
? Bob.Miller  
? bob@miller.foo  
'bob@miller.foo'
```

API

Prompt and verify user input on the command line.

The project was initiated by Stefan Fischer.

Note: This project is still a work in progress.

`prompt.PROMPT = '? '`

Prompt that will be shown by default.

`prompt.RE_EMAIL_SIMPLE = <_sre.SRE_Pattern object>`

Regular expression for email addresses.

`prompt.character (prompt=None, empty=False)`

Prompt a single character.

Parameters

- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.

Returns A str if the user entered a single-character, non-empty string. None if the user pressed only Enter and `empty` was True.

Return type str or None

`prompt.email (prompt=None, empty=False, mode='simple')`

Prompt an email address.

This check is based on a simple regular expression and does not verify whether an email actually exists.

Parameters

- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.
- **mode** (*{'simple'}*, *optional*) – 'simple' will use a simple regular expression. No other mode is implemented yet.

Returns A str if the user entered a likely email address. None if the user pressed only Enter and `empty` was True.

Return type str or None

`prompt.integer (prompt=None, empty=False)`

Prompt an integer.

Parameters

- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.

Returns An int if the user entered a valid integer. None if the user pressed only Enter and `empty` was True.

Return type int or None

`prompt.real (prompt=None, empty=False)`

Prompt a real number.

Parameters

- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.

Returns A float if the user entered a valid real number. None if the user pressed only Enter and `empty` was True.

Return type float or None

`prompt.regex` (*pattern*, *prompt=None*, *empty=False*, *flags=0*)

Prompt a string that matches a regular expression.

Parameters

- **pattern** (*str*) – A regular expression that must be matched.
- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.
- **flags** (*int*, *optional*) – Flags that will be passed to `re.match`.

Returns A match object if the user entered a matching string. None if the user pressed only Enter and `empty` was True.

Return type Match or None

See also:

`re.match()`

`prompt.secret` (*prompt=None*, *empty=False*)

Prompt a string without echoing.

Parameters

- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.

Returns A str if the user entered a non-empty string. None if the user pressed only Enter and `empty` was True.

Return type str or None

Raises `getpass.GetPassWarning` – If echo free input is unavailable.

See also:

`getpass.getpass()`

`prompt.string` (*prompt=None*, *empty=False*)

Prompt a string.

Parameters

- **prompt** (*str*, *optional*) – Use an alternative prompt.
- **empty** (*bool*, *optional*) – Allow an empty response.

Returns A str if the user entered a non-empty string. None if the user pressed only Enter and `empty` was True.

Return type str or None

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