
Clinput Documentation

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Cameron McCormack

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1.1 clinput.single module

`clinput.single.boolean` (*message*, *err*='Please enter 1 (True) or 0 (False).')

Command line input and error checking for boolean values (1 or 0).

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please enter 1 (True) or 0 (False).”.

Returns The first successfully input boolean value.

Return type bool

`clinput.single.custom` (*message*, *allowed*, *err*='Invalid input.')

Command line input and error checking for user-defined allowable inputs.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **allowed** (*tuple of (str,)*) – The allowable user inputs.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Invalid input.”.

Returns The first successfully allowed input string.

Return type str

`clinput.single.integer` (*message*, *err*='Please enter an integer.')

Command line input and error checking for integers.

Parameters

- **message** (*str*) – The input message displayed in the command line.

- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please enter an integer.”.

Returns The first successfully input integer.

Return type int

`clinput.single.natural` (*message*, *err*=*‘Please enter an integer greater than zero.’*, *zero*=*False*)

Command line input and error checking for natural numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please enter an integer greater than zero.”.
- **zero** (*bool*, *optional*) – Zero status. True includes zero, False excludes zero. Defaults to False.

Returns The first successfully input natural number.

Return type int

`clinput.single.negative` (*message*, *err*=*‘Please enter a negative number.’*, *zero*=*True*)

Command line input and error checking for negative numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please enter a negative number.”.
- **zero** (*bool*, *optional*) – Zero status. True includes zero, False excludes zero. Defaults to True.

Returns The first successfully input negative number.

Return type float

`clinput.single.number` (*message*, *err*=*‘Please enter a number.’*)

Command line input and error checking for numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please enter a number.”.

Returns The first successfully input number.

Return type float

`clinput.single.positive` (*message*, *err*=*‘Please enter a positive number.’*, *zero*=*True*)

Command line input and error checking for positive numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please enter a positive number.”.
- **zero** (*bool*, *optional*) – Zero status. True includes zero, False excludes zero. Defaults to True.

Returns The first successfully input positive number.

Return type float

`clinput.single.string` (*message*, *err*='Please provide an input.')

Command line input and error checking for strings (error if blank).

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please provide an input.”.

Returns The first successfully input string.

Return type str

2.1 clinput.multi module

`clinput.multi.boolean` (*message*, *err*='Please only enter 1s (True) or 0s (False).', *sep*=' ')

Command line input and error checking for boolean values (1 or 0).

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please only enter 1s (True) or 0s (False).”.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to “ ”.

Returns The first successfully input list of boolean values.

Return type list of [bool,]

`clinput.multi.custom` (*message*, *allowed*, *err*='Invalid input.', *sep*=' ')

Command line input and error checking for user-defined allowable inputs.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **allowed** (*tuple of (str,)*) – The allowable user inputs.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Invalid input.”.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to “ ”.

Returns The first successfully input list of allowed strings.

Return type list of [str,]

`clinput.multi.integer` (*message*, *err*='Please only enter integers.', *sep*=' ')

Command line input and error checking for integers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please only enter integers.”.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to ” “.

Returns The first successfully input list of integers.

Return type list of [int,]

`clinput.multi.natural` (*message*, *err*=*‘Please only enter positive integers.’*, *zero*=*False*, *sep*=*’ ’*)
Command line input and error checking for natural numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please only enter positive integers.”.
- **zero** (*bool*, *optional*) – Zero status. True includes zero, False excludes zero. Defaults to False.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to ” “.

Returns The first successfully input list of natural numbers.

Return type list of [int,]

`clinput.multi.negative` (*message*, *err*=*‘Please only enter negative numbers.’*, *zero*=*True*, *sep*=*’ ’*)
Command line input and error checking for negative numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please only enter negative numbers.”.
- **zero** (*bool*, *optional*) – Zero status. True includes zero, False excludes zero. Defaults to True.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to ” “.

Returns The first successfully input list of negative numbers.

Return type list of [float,]

`clinput.multi.number` (*message*, *err*=*‘Please only enter numbers.’*, *sep*=*’ ’*)
Command line input and error checking for numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please only enter numbers.”.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to ” “.

Returns The first successfully input list of numbers.

Return type list of [float,]

`clinput.multi.positive` (*message*, *err*='Please only enter positive numbers.', *zero*=True, *sep*=' ')

Command line input and error checking for positive numbers.

Parameters

- **message** (*str*) – The input message displayed in the command line.
- **err** (*str*, *optional*) – The message displayed for an erroneous input. Defaults to “Please only enter positive numbers.”.
- **zero** (*bool*, *optional*) – Zero status. True includes zero, False excludes zero. Defaults to True.
- **sep** (*str*, *optional*) – The character used to separate inputs. Defaults to ” “.

Returns The first successfully input list of positive numbers.

Return type list of [float,]

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