

# Quick reference for `checkit` validators

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<https://gist.github.com/joepie91/cd107b3a566264b28a3494689d73e589>.

## Presence

- **exists** - The field must exist, and not be `undefined`.
- **required** - The field must exist, and not be `undefined`, `null` or an empty string.
- **empty** - The field must be some kind of "empty". Things that are considered "empty" are as follows:
  - `""` (empty string)
  - `[]` (empty array)
  - `{}` (empty object)
  - Other falsey values

## Character set

- **alpha** - `a-z`, `A-Z`
- **alphaNumeric** - `a-z`, `A-Z`, `0-9`
- **alphaUnderscore** - `a-z`, `A-Z`, `0-9`, `_`
- **alphaDash** - `a-z`, `A-Z`, `0-9`, `_`, `-`

## Value

Length-related validators may apply to both strings and arrays.

- **exactLength**: `length` - The value must have a length of exactly `length`.
- **minLength**: `length` - The value must have a length of at least `length`.
- **maxLength**: `length` - The value must have a length of at most `length`.
- **contains**: `needle` - The value must contain the specified `needle` (applies to both strings and arrays).

- **accepted** - Must be a value that indicates agreement - varies by language (defaulting to `en`):
  - **en, fr, nl** - `"yes"`, `"on"`, `"1"`, `1`, `"true"`, `true`
  - **es** - `"yes"`, `"on"`, `"1"`, `1`, `"true"`, `true`, `"si"`
  - **ru** - `"yes"`, `"on"`, `"1"`, `1`, `"true"`, `true`, `"да"`

## Value (numbers)

Note that "numbers" refers to both Number-type values, and strings containing numeric values!

- **numeric** - Must be a finite numeric value of some sort.
- **integer** - Must be an integer value (either positive or negative).
- **natural** - Must be a natural number (ie. an integer value of 0 or higher).
- **naturalNonZero** - Must be a natural number, but *higher* than 0 (ie. an integer value of 1 or higher).
- **between: min : max** - The value must numerically be between the `min` and `max` values (exclusive).
- **range: min : max** - The value must numerically be *within* the `min` and `max` values (inclusive).
- **lessThan: maxValue** - The value must numerically be less than the specified `maxValue` (exclusive).
- **lessThanEqualTo: maxValue** - The value must numerically be less than *or equal to* the specified `maxValue` (inclusive).
- **greaterThan: minValue** - The value must numerically be greater than the specified `minValue` (exclusive).
- **greaterThanEqualTo: minValue** - The value must numerically be greater than *or equal to* the specified `minValue` (inclusive).

## Relations to other fields

- **matchesField: field** - The value in this field must equal the value in the specified other `field`.
- **different: field** - The value in this field must *not* equal the value in the specified other `field`.

## JavaScript types

- **NaN** - Must be `NaN`.
- **null** - Must be `null`.
- **string** - Must be a `String`.
- **number** - Must be a `Number`.
- **array** - Must be an `Array`.

- **plainObject** - Must be a plain `object` (ie. object literal).
- **date** - Must be a `Date` object.
- **function** - Must be a `Function`.
- **regExp** - Must be a `RegExp` object.
- **arguments** - Must be an `arguments` object.

## Format

- **email** - Must be a validly formatted e-mail address.
- **luhn** - Must be a validly formatted creditcard number (according to a Luhn regular expression).
- **url** - Must be a validly formatted URL.
- **ipv4** - Must be a validly formatted IPv4 address.
- **ipv6** - Must be a validly formatted IPv6 address.
- **uuid** - Must be a validly formatted UUID.
- **base64** - Must be a validly formatted base64 string.

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