

Option

August 25, 2026

Option

Kind: Class**Source:** `lib/option.js`

`Option` defines a command-line option, including its flags, default value, environment variable mapping, validation rules, and parsing behavior. It is added to a command and supplies metadata used while parsing arguments and building help output.

Methods

Method	Signature	Returns
<code>default</code>	<code>default(value: undefined, description: undefined)</code>	<code>void</code>
<code>preset</code>	<code>preset(arg: undefined)</code>	<code>void</code>
<code>conflicts</code>	<code>conflicts(names: undefined)</code>	<code>void</code>
<code>implies</code>	<code>implies(impliedOptionValues: undefined)</code>	<code>void</code>
<code>env</code>	<code>env(name: undefined)</code>	<code>void</code>
<code>argParser</code>	<code>argParser(fn: undefined)</code>	<code>void</code>
<code>makeOptionMandatory</code>	<code>makeOptionMandatory(mandatory: undefined)</code>	<code>void</code>
<code>hideHelp</code>	<code>hideHelp(hide: undefined)</code>	<code>void</code>
<code>_collectValue</code>	<code>_collectValue(value: undefined, previous: undefined)</code>	<code>void</code>
<code>choices</code>	<code>choices(values: undefined)</code>	<code>void</code>
<code>name</code>	<code>name()</code>	<code>void</code>
<code>attributeName</code>	<code>attributeName()</code>	<code>void</code>
<code>helpGroup</code>	<code>helpGroup(heading: undefined)</code>	<code>void</code>
<code>is</code>	<code>is(arg: undefined)</code>	<code>void</code>

Method	Signature	Returns
<code>isBoolean</code>	<code>isBoolean()</code>	<code>void</code>

Where it refuses work

- `Option` stops the work with `InvalidArgumentError` when `!this.argChoices.includes(arg)` .
- `Option` stops the work with an early return when `previous === this.defaultValue || !Array.isArray(previous)` .
- `Option` stops the work with an early return when `this.variadic` .
- `Option` stops the work with an early return when `this.long` .
- `Option` stops the work with an early return when `this.negate` .

Diagram

```
graph LR
  Command[Command] -->|addOption| Option[Option]
  Environment[Environment variable] -->|env| Option
  Option -->|flags, defaults, rules| Parser[Argument parser]
  Parser -->|stores parsed value| CommandOptions[command.opts()]
```

Usage

```
const { Command, Option } = require('commander');

const program = new Command();

const formatOption = new Option(
  '-f, --format <type>',
  'select output format'
)
  .choices(['text', 'json'])
  .default('text')
  .env('OUTPUT_FORMAT');

const quietOption = new Option('-q, --quiet', 'suppress output')
  .conflicts('verbose');

program
  .addOption(formatOption)
  .addOption(quietOption);

program.parse();
```

```
const options = program.opts();
console.log(options.format);
```

AI Coding Instructions

- Create options with `new Option(flags, description)` before adding them to a `Command`.
- Use `choices()` for accepted argument values and `argParser()` when values need custom conversion.
- Use `conflicts()` and `implies()` to describe relationships between option names, not flag strings.
- Set `env()` when an option may read its value from an environment variable.
- Use `hideHelp()` only for options that should still parse but should not appear in generated help.

How it works

I'll inspect the option-token parsing branch to document the actual preconditions for required, optional, variadic, boolean, and negated flags.

Relationships

- IMPORTS → `InvalidArgumentError`

Used by

2 references from 2 files. Each is a place in this repository where the symbol is actually used — go read one rather than trusting an example.

Imported by (2)

- `program` — `index.js :7`
- `Command` — `lib/command.js :14`