

argparse

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CLI arguments parser for node.js. Javascript port of python's [argparse](#) module (original version 3.2). That's a full port, except some very rare options, recorded in issue tracker.

NB. Difference with original.

Method names changed to camelCase. See [generated docs](#).

Use `defaultValue` instead of `default`.

Use `argparse.Const.REMAINDER` instead of `argparse.REMAINDER`, and similarly for constant values `OPTIONAL`, `ZERO_OR_MORE`, and `ONE_OR_MORE` (aliases for `nargs` values `'?'`, `'*'`, `'+'`, respectively), and `SUPPRESS`.

```
test.js file:
#!/usr/bin/env node
'use strict';

var ArgumentParser = require('argparse').ArgumentParser;
var parser = new ArgumentParser({
    addHelp: true,
    version: '0.0.1',
    description: 'Argparse example'
});
parser.addArgument([
    '-f', '--foo', ],
    {
        help: 'foo bar'
    }
);
parser.addArgument([
    '-b', '--bar', ],
    {
        help: 'bar foo'
    }
);
parser.addArgument(
    '--baz',
    {
        help: 'baz bar'
    }
);
parser.addArgument(
    '--help',
    {
        help: 'help'
    }
);
}


```

Example

```
var ArgumentParser = require('../lib/')
var parser = new ArgumentParser({
    addHelp: true,
    version: '0.0.1',
    description: 'Argparse example'
});
parser.addArgument([
    '-f', '--foo', ],
    {
        help: 'foo bar'
    }
);
parser.addArgument([
    '-b', '--bar', ],
    {
        help: 'bar foo'
    }
);
parser.addArgument(
    '--baz',
    {
        help: 'baz bar'
    }
);
parser.addArgument(
    '--help',
    {
        help: 'help'
    }
);
}


```

```
);  
var args = parser.parseArgs();  
console.dir(args);
```

Display help:

```
$ ./test.js -h  
usage: example.js [-h] [-v] [-f FOO] [-b  
BAR] [--baz BAZ]
```

Argparse example

Optional arguments:

```
-h, --help           Show this help  
message and exit.  
-v, --version       Show program's  
version number and exit.  
-f FOO, --foo FOO   foo bar  
-b BAR, --bar BAR   bar foo  
--baz BAZ           baz bar
```

Parse arguments:

```
$ ./test.js -f=3 --bar=4 --baz 5  
{ foo: '3', bar: '4', baz: '5' }
```

More [examples](#).

ArgumentParser objects

Creates a new ArgumentParser object.

```
new ArgumentParser({parameters hash});
```

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Supported params:

ep1 log - Text to display after the argument help.

`argumentDefault` - Set the global default value for

parents - A list of ArgumentParser objects whose arguments

prefixChars - The set of characters that prefix optional

Formatter - A class for customizing the help output.

Ch:Quercus (P) 855:84-11817

conflict handler - Usually unnecessary, defines strategy

Not supported yet

files from which additional arguments should be read.

Details in [Original ArgumentParser guide](#)

Contributors

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- [others](#)

addArgument() method

```
ArgumentParser.addArgument(name or flag  
or [name] or [flags...], {options})
```

Defines how a single command-line argument should be parsed.

- name or flag or [name] or [flags...] - Either a positional name (e.g., 'foo'), a single option (e.g., '-f' or '--foo'), an array of a single positional name (e.g., ['foo']), or an array of options (e.g., ['-f', '--foo']).

Options:

- action - The basic type of action to be taken when this argument is encountered at the command line.
- nargs - The number of command-line arguments that should be consumed.
- constant - A constant value required by some action and nargs selections.
- defaultValue - The value produced if the argument is absent from the command line.
- type - The type to which the command-line argument should be converted.
- choices - A container of the allowable values for the argument.
- required - Whether or not the command-line option may be omitted (optionals only).
- help - A brief description of what the argument does.

- `metavar` - A name for the argument in usage messages.
Details in [original sub-commands guide](#)
- `dest` - The name of the attribute to be added to the object
retumed by `parseArgs()`.
Details in [original add-argument guide](#)

```

description: 'Argparse examples: sub-
    commands',
});

var subparsers = parser.addSubparsers({
    title:'subcommands',
    dest:"subcommand_name"
});

var bar = subparsers.addParser('c1',
    {addHelp:true});
bar.addArgument(
    [ '-f', '--foo' ],
{
    action: 'store',
    help: 'foo3 bar3'
}
);
var bar = subparsers.addParser(
    'c2',
    {aliases:['co'], addHelp:true}
);
bar.addArgument(
    [ '-b', '--bar' ],
{
    action: 'store',
    type: 'int',
    help: 'foo3 bar3'
}
);

var args = parser.parseArgs();
console.dir(args);

```

Action (some details)

ArgumentParser objects associate command-line arguments with actions. These actions can do just about anything with the command-line arguments associated with them, though most actions simply add an attribute to the object returned by parseArgs(). The action keyword argument specifies how the command-line arguments should be handled. The supported actions are:

- `store` - Just stores the argument's value. This is the default action.
- `storeConst` - Stores value, specified by the `const` keyword argument. (Note that the `const` keyword argument defaults to the rather unhelpful `None`.) The '`storeConst`' action is most commonly used with optional arguments, that specify some sort of flag.
- `storeTrue` and `storeFalse` - Stores values `True` and `False` respectively. These are special cases of '`storeConst`'.
- `append` - Stores a list, and appends each argument value to the list. This is useful to allow an option to be specified multiple times.
- `appendConst` - Stores a list, and appends value, specified by the `const` keyword argument to the list. (Note, that the `const` keyword argument defaults is `None`.) The '`appendConst`' action is typically used when multiple arguments need to store constants to the same list.

Sub-commands

`ArgumentParser.addSubparsers()`

sub_commands.js

Example:

ArgumentParser object that can be modified as usual.

```
#!/usr/bin/env node
use strict';
var ArgumentParser = require('../lib/');
var ArgumentParser = new ArgumentParser({
    addHelp:true,
    version: '0.0.1',
    var parser = new ArgumentParser({
```

- **Count** - Counts the number of times a keyword argument occurs. For example, used for increasing verbosity levels.
 - **help** - Prints a complete help message for all the options in the current parser and then exits. By default a help action is automatically added to the parser. See ArgumentParser for details of how the output is created.
 - **version** - Prints version information and exits. Expects a keyword argument in the addArgument() call.
 - **Details in original action guide**