

assert-plus

This library is a super small wrapper over node's assert module that has two things: (1) the ability to disable assertions with the environment variable `NODE_NDEBUG`, and (2) some API wrappers for argument testing. Like `assert.string(myArg, 'myArg')`. As a simple example, most of my code looks like this:

```
var assert = require('assert-plus');

function fooAccount(options, callback) {
  assert.object(options, 'options');
  assert.number(options.id, 'options.id');
  assert.bool(options.isManager, 'options.isManager');
  assert.string(options.name, 'options.name');
  assert.arrayOfString(options.email, 'options.email');
  assert.func(callback, 'callback');

  // Do stuff
  callback(null, {});
}
```

API

All methods that *aren't* part of node's core assert API are simply assumed to take an argument, and then a string 'name' that's not a message; `AssertionError` will be thrown if the assertion fails with a message like:

```
AssertionError: foo (string) is required
at test (/home/mark/work/foo/foo.js:3:9)
at Object.<anonymous> (/home/mark/work/foo/foo.js:15:1)
at Module._compile (module.js:446:26)
at Object..js (module.js:464:10)
at Module.load (module.js:353:31)
at Function._load (module.js:311:12)
at Array.0 (module.js:484:10)
at EventEmitter._tickCallback (node.js:190:38)
```

from:

```
function test(foo) {
  assert.string(foo, 'foo');
}
```

There you go. You can check that arrays are of a homogeneous type with `ArrayOf$Type`:

```
function test(foo) {
  assert.arrayOfString(foo, 'foo');
}
```

You can assert IFF an argument is not **undefined** (i.e., an optional arg):

```
assert.optionalString(foo, 'foo');
```

Lastly, you can opt-out of assertion checking altogether by setting the environment variable **NODE_NDEBUG=1**. This is pseudo-useful if you have lots of assertions, and don't want to pay **typeof** () taxes to v8 in production. Be advised: The standard functions re-exported from **assert** are also disabled in assert-plus if **NDEBUG** is specified. Using them directly from the **assert** module avoids this behavior.

The complete list of APIs is:

- assert.array
- assert.bool
- assert.buffer
- assert.func
- assert.number
- assert.finite
- assert.object
- assert.string
- assert.stream
- assert.date
- assert.regex
- assert.uuid
- assert.arrayOfArray
- assert.arrayOfBool
- assert.arrayOfBuffer
- assert.arrayOfFunc
- assert.arrayOfNumber
- assert.arrayOfFinite
- assert.arrayOfObject
- assert.arrayOfString
- assert.arrayOfStream
- assert.arrayOfDate
- assert.arrayOfRegex
- assert.arrayOfUuid
- assert.optionalArray
- assert.optionalBool
- assert.optionalBuffer
- assert.optionalFunc
- assert.optionalNumber
- assert.optionalFinite
- assert.optionalObject

- `assert.optionalString`
- `assert.optionalStream`
- `assert.optionalDate`
- `assert.optionalRegexp`
- `assert.optionalUuid`
- `assert.optionalArrayOfArray`
- `assert.optionalArrayOfBool`
- `assert.optionalArrayOfBuffer`
- `assert.optionalArrayOfFunc`
- `assert.optionalArrayOfNumber`
- `assert.optionalArrayOfFinite`
- `assert.optionalArrayOfObject`
- `assert.optionalArrayOfString`
- `assert.optionalArrayOfStream`
- `assert.optionalArrayOfDate`
- `assert.optionalArrayOfRegexp`
- `assert.optionalArrayOfUuid`
- `assert.AssertionError`
- `assert.fail`
- `assert.ok`
- `assert.equal`
- `assert.notEqual`
- `assert.deepEqual`
- `assert.notDeepEqual`
- `assert.strictEqual`
- `assert.notStrictEqual`
- `assert.throws`
- `assert.doesNotThrow`
- `assert.ifError`

Installation

```
npm install assert-plus
```

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Bugs

See <https://github.com/mcavage/node-assert-plus/issues>.