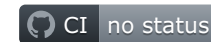


JS-YAML - YAML 1.2 parser / writer for JavaScript



[Online Demo](#)

This is an implementation of [YAML](#), a human-friendly data serialization language. Started as [PyYAML](#) port, it was completely rewritten from scratch. Now it's very fast, and supports 1.2 spec.

Installation

YAML module for node.js

```
npm install js-yaml
```

CLI executable

If you want to inspect your YAML files from CLI, install js-yaml globally:

```
npm install -g js-yaml
```

Usage

```
usage: js-yaml [-h] [-v] [-c] [-t] file
               file with YAML
               document(s)

Optional arguments:
-h, --help      Show this help message
-v, --version   Show program's version
-c, --compact   Display errors in
compact mode
-t, --trace     Show stack trace on
error
```

API

Here we cover the most 'useful' methods. If you need advanced details (creating your own tags), see [examples](#) for more info.

```
const yaml = require('js-yaml');
const fs    = require('fs');

// Get document, or throw exception on
error
try {
```

```

const doc =
  yaml.load(fs.readFileSync('/
    home/ixti/example.yml',
      'utf8'));
console.log(doc);
} catch (e) {
  console.log(e);
}

```

load (string [, options])

Parses `string` as single YAML document. Returns either a plain object, a string, a number, `null` or `undefined`, or throws `YAMLError` on error. By default, does not support regexps, functions and `undefined`.

options:

- `filename` (*default: null*) - string to be used as a file path in error/warning messages.
- `onWarning` (*default: null*) - function to call on warning messages. Loader will call this function with an instance of `YAMLError` for each warning.
- `schema` (*default: DEFAULT_SCHEMA*) - specifies a schema to use.
 - `FAILSAFE_SCHEMA` - only strings, arrays and plain objects: <http://www.yaml.org/spec/1.2/spec.html#id2802346>
 - `JSON_SCHEMA` - all JSON-supported types: <http://www.yaml.org/spec/1.2/spec.html#id2803231>

- CORE_SCHEMA - same as JSON_SCHEMA: <http://www.yaml.org/spec/1.2/spec.html#id2804923>

- DEFAULT_SCHEMA - all supported YAML types.

- json (*default: false*) - compatibility with JSON.parse behaviour. If true, then duplicate keys in a mapping will override values rather than throwing an error.

NOTE: This function **does not** understand multi-document sources, it throws exception on those.

NOTE: JS-YAML **does not** support schema-specific tag resolution restrictions. So, the JSON schema is not as strictly defined in the YAML specification. It allows numbers in any notation, use Null and NULL as null, etc. The core schema also has no such restrictions. It allows binary notation for integers.

loadAll(string [, iterator] [, options])

Same as load(), but understands multi-document sources. Applies iterator to each document if specified, or returns array of documents.

```
const yaml = require('js-yaml');

yaml.loadAll(data, function (doc) {
  console.log(doc);
});
```

Also, reading of properties on implicit block mapping keys is not supported yet. So, the following YAML document cannot be loaded.

```
&anchor foo:
  foo: bar
  *anchor: duplicate key
  baz: bat
  *anchor: duplicate key
```

js-yaml for enterprise

Available as part of the Tidelf Subscription

The maintainers of js-yaml and thousands of other packages are working with Tidelf to deliver commercial support and maintenance for the open source dependencies you use to build your applications. Save time, reduce risk, and improve code health, while paying the maintainers of the exact dependencies you use. [Learn more.](#)

```
!!float '3.14...'      # number
!!binary '...base64...' # buffer
!!timestamp 'YYYY-...' # date
!!omap [ ... ]         # array of
key-value pairs
!!pairs [ ... ]         # array or
array pairs
!!set { ... }           # array of
objects with given keys and null values
!!str '...'             # string
!!seq [ ... ]           # array
!!map { ... }           # object
```

JavaScript-specific tags

See [js-yaml-js-types](#) for extra types.

Caveats

Note, that you use arrays or objects as key in JS-YAML. JS does not allow objects or arrays as keys, and stringifies (by calling `toString()` method) them at the moment of adding them.

```
---
? [ foo, bar ]
: - baz
? { foo: bar }
: - baz
  - baz

{ "foo,bar": ["baz"], "[object
  Object]": ["baz", "baz"] }
```

dump(object [, options])

Serializes `object` as a YAML document. Uses `DEFAULT_SCHEMA`, so it will throw an exception if you try to dump regexps or functions. However, you can disable exceptions by setting the `skipInvalid` option to `true`.

options:

- `indent` (*default: 2*) - indentation width to use (in spaces).
- `noArrayIndent` (*default: false*) - when true, will not add an indentation level to array elements
- `skipInvalid` (*default: false*) - do not throw on invalid types (like function in the safe schema) and skip pairs and single values with such types.
- `flowLevel` (*default: -1*) - specifies level of nesting, when to switch from block to flow style for collections. -1 means block style everywhere
- `styles` - “tag” => “style” map. Each tag may have own set of styles.
- `schema` (*default: DEFAULT_SCHEMA*) specifies a schema to use.
- `sortKeys` (*default: false*) - if true, sort keys when dumping YAML. If a function, use the function to sort the keys.
- `lineWidth` (*default: 80*) - set max line width. Set -1 for unlimited width.
- `noRefs` (*default: false*) - if true, don't convert duplicate objects into references

- noCompatMode (default: false) - if true don't try to be compatible with older yaml versions. Currently: don't quote "yes", "no" and so on, as required for YAML 1.1

- condenseFlow (default: false) - if true flow sequences will be condensed, omitting the space between a, b. Eg. '[a,b]', and omitting the space between key: value and quoting the key. Eg. ' {"a":b}' Can be useful when using yaml for pretty URL query params as spaces are %-encoded.
- quotingType (' or " , default: ') - strings will be quoted using this quoting style. If you specify single quotes, double quotes will still be used for non-printable characters.
- forceQuotes (default: false) - if true, all non-key strings will be quoted even if they normally don't need to.
- replacer - callback function (key, value) called recursively on each key/value in source object (see replacer docs for JSON.stringify).

The following table show available styles (e.g. "canonical", "binary"...) available for each tag (e.g. !int, !int ...). Yaml output is shown on the right side after => (default setting) or ->:

!int	!canonical	-> "~"	!lowercase	=> "null"	!uppercase	-> "NULL"	!camelcase	-> "Null"
!binary	-> "0b1", "0b101010",	!octal	-> "001", "0052",	!decimal	=> "1", "42", "7290"			

```
"hexadecimal" -> "0x1", "0x2A",
"0x1C7A"
```

```
!bool
  lowercase" => "true", "false"
  uppercase" -> "TRUE", "FALSE"
  camelcase" -> "True", "False"
```

```
!float
  lowercase" => ".nan", ".inf"
  uppercase" -> ".NAN", ".INF"
  camelcase" -> ".NaN", ".Inf"
```

Example:

```
dump(object, {
  'styles': {
    '!int': 'canonical' // dump null
    as ~
  },
  'sortKeys': true
  // sort object keys
});
```

Supported YAML types

The list of standard YAML tags and corresponding JavaScript types. See also [YAML tag discussion](#) and [YAML types repository](#).

```
!null ''
!bool 'yes'
!bool 'yes'
!int '3...'
!number
```