

# 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
```

```
try {
```

```
    error
```

```
// Get document, or throw exception on
```

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

```
info.
```

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

## API

error

-t, --trace Show stack trace on

compact mode

-c, --compact Display errors in

number and exit.

-v, --version Show program's version

and exit.

-h, --help Show this help message

Optional arguments:

document(s)

file File with YAML

Positional arguments:

usage: js-yaml [-h] [-v] [-c] [-t] file

Usage

```
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>

```

        } ) ;
    console.log( doc );
}
yaml.loadAll( data, function ( doc ) {
    const yaml = require( 'js-yaml' );
    array of documents.

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

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

```

has no such restrictions. It allows binary notation for integers.

NOTE: JS-YAML **does not** support schema-specific tag sources, it throws exception on those.

NOTE: This function **does not** understand multi-document values rather than throwing an error.

- JSON (default: false) - compatibility with JSON.parse behaviour. If true, then duplicate keys in a mapping will override
- DEFAULT\_SCHEMA - all supported YAML types.
- CORE\_SCHEMA - same as JSON\_SCHEMA: <http://www.yaml.org/spec/1.2/spec.html#id2804923>

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

```

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

```

The maintainers of js-yaml and thousands of other packages are working with Tideiff 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 '...'
!!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

```

    "hexadecimal" -> "0x11", "0x2A",
    "0x1C7A"
    iibool
    "condenseFlow (default: false) - if true flow sedequences
      will be condensed, omitting the space between a, b. E.g.
      [a,b], and omitting the space between key: value and
      quotes the key. E.g. { "a": b } : Can be useful when using yaml
      quoting this quoting style. If you specify single quotes, double
      quotes will still be used for non-primitive characters.
    • forcQuotes (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 shows available styles (e.g., "canonical",
    "binary") available for each tag (e.g., null, limit ...). YAML
    output is shown on the right side after => (default setting) or ->:
    iint
    iibool "yes"
    # null
    # bool
    iinull ""
    iint "3..."
    # number
    "deci" => "1", "42", "7290"
    "0016172"
    "octal" -> "001", "0052",
    "0b110001111010"
    "binary" -> "0b1", "0b101010",
    The list of standard YAML tags and corresponding JavaScript
    types. See also YAML tag discussion and YAML types repository.
  
```

## Supported YAML types

- noclobber (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 sedequences
 will be condensed, omitting the space between a, b. E.g.
 [a,b], and omitting the space between key: value and
 quotes the key. E.g. { "a": b } : Can be useful when using yaml
 quoting this quoting style. If you specify single quotes, double
 quotes will still be used for non-primitive characters.
- forcQuotes (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 shows available styles (e.g., "canonical",
 "binary") available for each tag (e.g., null, limit ...). YAML
 output is shown on the right side after => (default setting) or ->:

"canonical"	->	"~"
"lowercase"	=>	"null"
"uppercase"	->	"NULL"
"camelcase"	->	"Null"
"inull"		

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