

NAME

Parse::CPAN::Meta - Parse META.yml and META.json CPAN metadata files

VERSION

version 2.150010

SYNOPSIS

DESCRIPTION

Parse::CPAN::Meta is a parser for *META.json* and *META.yml* files, using *JSON::PP* and/or *CPAN::Meta::YAML*.

Parse::CPAN::Meta provides three methods: load_file, load_json_string, and load_yaml_string. These will read and deserialize CPAN metafiles, and are described below in detail

Parse::CPAN::Meta provides a legacy API of only two functions, based on the YAML functions of the same name. Wherever possible, identical calling semantics are used. These may only be used with YAML sources.

All error reporting is done with exceptions (die'ing).

Note that META files are expected to be in UTF-8 encoding, only. When converted string data, it must first be decoded from UTF-8.

METHODS

load file

```
my $metadata_structure = Parse::CPAN::Meta->load_file('META.json');
my $metadata structure = Parse::CPAN::Meta->load file('META.yml');
```

This method will read the named file and deserialize it to a data structure, determining whether it should be JSON or YAML based on the filename. The file will be read using the ":utf8" IO layer.



load_yaml_string

```
my $metadata_structure =
Parse::CPAN::Meta->load_yaml_string($yaml_string);
```

This method deserializes the given string of YAML and returns the first document in it. (CPAN metadata files should always have only one document.) If the source was UTF-8 encoded, the string must be decoded before calling load_yaml_string.

load_json_string

```
my $metadata_structure =
Parse::CPAN::Meta->load_json_string($json_string);
```

This method deserializes the given string of JSON and the result. If the source was UTF-8 encoded, the string must be decoded before calling <code>load_json_string</code>.

load_string

```
my $metadata_structure = Parse::CPAN::Meta->load_string($some_string);
```

If you don't know whether a string contains YAML or JSON data, this method will use some heuristics and guess. If it can't tell, it assumes YAML.

yaml_backend

```
my $backend = Parse::CPAN::Meta->yaml_backend;
```

Returns the module name of the YAML serializer. See ENVIRONMENT for details.

json backend

```
my $backend = Parse::CPAN::Meta->json_backend;
```

Returns the module name of the JSON serializer. If CPAN_META_JSON_BACKEND is set, this will be whatever that's set to. If not, this will either be JSON::PP or JSON. If PERL_JSON_BACKEND is set, this will return JSON as further delegation is handled by the JSON module. See ENVIRONMENT for details

json_decoder

```
my $decoder = Parse::CPAN::Meta->json_decoder;
```

Returns the module name of the JSON decoder. Unlike <code>json_backend</code>, this is not necessarily a full <code>JSON-style</code> module, but only something that will provide a <code>decode_json</code> subroutine. If <code>CPAN_META_JSON_DECODER</code> is set, this will be whatever that's set to. If not, this will be whatever has been selected as <code>json_backend</code>. See <code>ENVIRONMENT</code> for more notes.

FUNCTIONS

For maintenance clarity, no functions are exported by default. These functions are available for backwards compatibility only and are best avoided in favor of load_file.

Load

```
my @yaml = Parse::CPAN::Meta::Load( $string );
```

Parses a string containing a valid YAML stream into a list of Perl data structures.



LoadFile

```
my @yaml = Parse::CPAN::Meta::LoadFile( 'META.yml' );
```

Reads the YAML stream from a file instead of a string.

ENVIRONMENT

CPAN META JSON DECODER

By default, JSON::PP will be used for deserializing JSON data. If the CPAN_META_JSON_DECODER environment variable exists, this is expected to be the name of a loadable module that provides a decode_json subroutine, which will then be used for deserialization. Relying only on the existence of said subroutine allows for maximum compatibility, since this API is provided by all of JSON::PP, JSON::XS, Cpanel::JSON::XS, JSON::MaybeXS, JSON::Tiny, and Mojo::JSON.

CPAN META JSON BACKEND

By default, JSON::PP will be used for deserializing JSON data. If the CPAN_META_JSON_BACKEND environment variable exists, this is expected to be the name of a loadable module that provides the JSON API, since downstream code expects to be able to call new on this class. As such, while JSON::PP, JSON::XS, Cpanel::JSON::XS and JSON::MaybeXS will work for this, to use Mojo::JSON or JSON::Tiny for decoding requires setting CPAN_META_JSON_DECODER.

PERL_JSON_BACKEND

If the CPAN_META_JSON_BACKEND environment variable does not exist, and if PERL_JSON_BACKEND environment variable exists, is true and is not "JSON::PP", then the JSON module (version 2.5 or greater) will be loaded and used to interpret PERL_JSON_BACKEND. If JSON is not installed or is too old, an exception will be thrown. Note that at the time of writing, the only useful values are 1, which will tell JSON to guess, or JSON::XS - if you want to use a newer JSON module, see CPAN_META_JSON_BACKEND.

PERL YAML BACKEND

By default, *CPAN::Meta::YAML* will be used for descrializing YAML data. If the PERL_YAML_BACKEND environment variable is defined, then it is interpreted as a module to use for descrialization. The given module must be installed, must load correctly and must implement the Load() function or an exception will be thrown.

AUTHORS

- David Golden <dagolden@cpan.org>
- Ricardo Signes <rjbs@cpan.org>
- Adam Kennedy <adamk@cpan.org>

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