



**Full credit is given to the above companies including the Operating System (OS) that this PDF file was generated!**

## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'CPAN::Meta::History::Meta\_1\_1.3perl'***

***\$ man CPAN::Meta::History::Meta\_1\_1.3perl***

CPAN::Meta::History::Meta\_1\_1(3pePerl Programmers Reference GCPAN::Meta::History::Meta\_1\_1(3perl)

NAME

CPAN::Meta::History::Meta\_1\_1 - Version 1.1 metadata specification for META.yml

PREFACE

This is a historical copy of the version 1.1 specification for META.yml files, copyright by Ken Williams and licensed under the same terms as Perl itself.

Modifications from the original:

- ? Conversion from the original HTML to POD format
- ? Include list of valid licenses from Module::Build 0.18 rather than linking to the module, with minor updates to text and links to reflect versions at the time of publication.
- ? Fixed some dead links to point to active resources.

DESCRIPTION

This document describes version 1.1 of the META.yml specification.

The META.yml file describes important properties of contributed Perl distributions such as the ones found on CPAN <<http://www.cpan.org>>. It is typically created by tools like Module::Build and ExtUtils::MakeMaker.

The fields in the META.yml file are meant to be helpful to people maintaining module collections (like CPAN), for people writing installation tools (like CPAN or CPANPLUS), or just people who want to know some stuff about a distribution before downloading it and starting to install it.

Format

META.yml files are written in the YAML <<http://www.yaml.org/>> format. The reasons we

chose YAML instead of, say, XML or Data::Dumper are discussed in this thread

<<http://www.nntp.perl.org/group/perl.makemaker/2002/04/msg406.html>> on the MakeMaker mailing list.

The first line of a META.yml file should be a valid YAML document header

<<http://yaml.org/spec/history/2002-10-31.html#syntax-document>> like "--- #YAML:1.0"

## Fields

The rest of the META.yml file is one big YAML mapping

<<http://yaml.org/spec/history/2002-10-31.html#syntax-mapping>>, whose keys are described here.

### name

Example: "Module-Build"

The name of the distribution. Often created by taking the "main module" in the distribution and changing "::" to "-". Sometimes it's completely different, however, as in the case of the libwww-perl <<http://search.cpan.org/author/GAAS/libwww-perl/>> distribution.

### version

Example: 0.16

The version of the distribution to which the META.yml file refers. This is a mandatory field.

The version is essentially an arbitrary string, but must be only ASCII characters, and strongly should be of the format integer-dot-digit-digit, i.e. 25.57, optionally followed by underscore-digit-digit, i.e. "25.57\_04".

The standard tools that deal with module distribution (PAUSE, CPAN, etc.) form an identifier for each distribution by joining the 'name' and 'version' attributes with a dash ("-") character. Tools who are prepared to deal with distributions that have no version numbers generally omit the dash as well.

### license

Example: "perl"

a descriptive term for the licenses ... not authoritative, but must be consistent with licensure statements in the READMEs, documentation, etc.

The license under which this distribution may be used and redistributed.

Must be one of the following licenses:

perl

The distribution may be copied and redistributed under the same terms as perl itself (this is by far the most common licensing option for modules on CPAN).

This is a dual license, in which the user may choose between either the GPL version 1 or the Artistic version 1 license.

gpl The distribution is distributed under the terms of the GNU General Public License version 2 (<<http://opensource.org/licenses/GPL-2.0>>).

lgpl

The distribution is distributed under the terms of the GNU Lesser General Public License version 2 (<<http://opensource.org/licenses/LGPL-2.1>>).

artistic

The distribution is licensed under the Artistic License version 1, as specified by the Artistic file in the standard perl distribution (<<http://opensource.org/licenses/Artistic-Perl-1.0>>).

bsd The distribution is licensed under the BSD 3-Clause License (<<http://opensource.org/licenses/BSD-3-Clause>>).

open\_source

The distribution is licensed under some other Open Source Initiative-approved license listed at <<http://www.opensource.org/licenses/>>.

unrestricted

The distribution is licensed under a license that is not approved by [www.opensource.org](http://www.opensource.org) <<http://www.opensource.org/>> but that allows distribution without restrictions.

restrictive

The distribution may not be redistributed without special permission from the author and/or copyright holder.

license\_uri

This should contain a URI where the exact terms of the license may be found. (change "unrestricted" to "redistributable"?)

distribution\_type

Example: "module"

What kind of stuff is contained in this distribution. Most things on CPAN are "module"s (which can also mean a collection of modules), but some things are "script"s.

This field is basically meaningless, and tools (like Module::Build or MakeMaker) will likely stop generating it in the future.

#### private

WTF is going on here?

index\_ignore: any application that indexes the contents of distributions (PAUSE, search.cpan.org) ought to ignore the items (packages, files, directories, namespace hierarchies).

#### requires

Example:

Data::Dumper: 0

File::Find: 1.03

A YAML mapping <<http://yaml.org/spec/history/2002-10-31.html#syntax-mapping>> indicating the Perl modules this distribution requires for proper operation. The keys are the module names, and the values are version specifications as described in the documentation for Module::Build's "requires" parameter.

Note: the exact nature of the fancy specifications like ">= 1.2, != 1.5, < 2.0" is subject to change. Advance notice will be given here. The simple specifications like "1.2" will not change in format.

#### recommends

Example:

Data::Dumper: 0

File::Find: 1.03

A YAML mapping <<http://yaml.org/spec/history/2002-10-31.html#syntax-mapping>> indicating the Perl modules this distribution recommends for enhanced operation.

#### build\_requires

Example:

Data::Dumper: 0

File::Find: 1.03

A YAML mapping <<http://yaml.org/spec/history/2002-10-31.html#syntax-mapping>> indicating the Perl modules required for building and/or testing of this distribution.

These dependencies are not required after the module is installed.

#### conflicts

Example:

Data::Dumper: 0

File::Find: 1.03

A YAML mapping <http://yaml.org/spec/history/2002-10-31.html#syntax-mapping> indicating the Perl modules that cannot be installed while this distribution is installed. This is a pretty uncommon situation.

- possibly separate out test-time prereqs, complications include: can tests be meaningfully preserved for later running? are test-time prereqs in addition to build-time, or exclusive?
- make official location for installed \*distributions\*, which can contain tests, etc.

#### dynamic\_config

Example: 0

A boolean flag indicating whether a Build.PL or Makefile.PL (or similar) must be executed, or whether this module can be built, tested and installed solely from consulting its metadata file. The main reason to set this to a true value is that your module performs some dynamic configuration (asking questions, sensing the environment, etc.) as part of its build/install process.

Currently Module::Build doesn't actually do anything with this flag - it's probably going to be up to higher-level tools like CPAN.pm to do something useful with it. It can potentially bring lots of security, packaging, and convenience improvements.

#### generated\_by

Example: "Module::Build version 0.16"

Indicates the tool that was used to create this META.yml file. It's good form to include both the name of the tool and its version, but this field is essentially opaque, at least for the moment.

#### Ingy's suggestions

##### short\_description

add as field, containing abstract, maximum 80 characters, suggested minimum 40 characters

##### description

long version of abstract, should add?

##### maturity

alpha, beta, gamma, mature, stable

##### author\_id, owner\_id

categorization, keyword, chapter\_id

URL for further information

could default to search.cpan.org on PAUSE

namespaces

can be specified for single elements by prepending dotted-form, i.e.

"com.example.my\_application.my\_property". Default namespace for META.yml is probably

"org.cpan.meta\_author" or something. Precedent for this is Apple's Carbon namespaces,

I think.

History

? March 14, 2003 (Pi day) - created version 1.0 of this document.

? May 8, 2003 - added the "dynamic\_config" field, which was missing from the initial version.

perl v5.34.0

2023-11-23

CPAN::Meta::History::Meta\_1\_1(3perl)