

## NAME

Module::Build::Compat - Compatibility with ExtUtils::MakeMaker

## SYNOPSIS

```
# In a Build.PL :
use Module::Build;
my $build = Module::Build->new
( module_name => 'Foo::Bar',
  license      => 'perl',
  create_makefile_pl => 'passthrough' );
...
```

## DESCRIPTION

Because ExtUtils::MakeMaker has been the standard way to distribute modules for a long time, many tools (CPAN.pm, or your system administrator) may expect to find a working Makefile.PL in every distribution they download from CPAN. If you want to throw them a bone, you can use Module::Build::Compat to automatically generate a Makefile.PL for you, in one of several different styles.

Module::Build::Compat also provides some code that helps out the Makefile.PL at runtime.

## METHODS

`create_makefile_pl($style, $build)`

Creates a Makefile.PL in the current directory in one of several styles, based on the supplied Module::Build object `$build`. This is typically controlled by passing the desired style as the `create_makefile_pl` parameter to Module::Build's `new()` method; the Makefile.PL will then be automatically created during the `distdir` action.

The currently supported styles are:

`small`

A small Makefile.PL will be created that passes all functionality through to the Build.PL script in the same directory. The user must already have Module::Build installed in order to use this, or else they'll get a module-not-found error.

`passthrough`

This is just like the `small` option above, but if Module::Build is not already installed on the user's system, the script will offer to use CPAN.pm to download it and install it before continuing with the build.

`traditional`

A Makefile.PL will be created in the "traditional" style, i.e. it will use ExtUtils::MakeMaker and won't rely on Module::Build at all. In order to create the Makefile.PL, we'll include the `requires` and `build_requires` dependencies as the `PREREQ_PM` parameter.

You don't want to use this style if during the `perl Build.PL` stage you ask the user questions, or do some auto-sensing about the user's environment, or if you subclass Module::Build to do some customization, because the vanilla Makefile.PL won't do any of that.

`run_build_pl(args => \@ARGV)`

This method runs the Build.PL script, passing it any arguments the user may have supplied to the `perl Makefile.PL` command. Because ExtUtils::MakeMaker and Module::Build accept different arguments, this method also performs some translation between the two.

`run_build_pl()` accepts the following named parameters:

**args**

The `args` parameter specifies the parameters that would usually appear on the command line of the `perl Makefile.PL` command - typically you'll just pass a reference to `@ARGV`.

**script**

This is the filename of the script to run - it defaults to `Build.PL`.

**write\_makefile()**

This method writes a 'dummy' Makefile that will pass all commands through to the corresponding `Module::Build` actions.

`write_makefile()` accepts the following named parameters:

**makefile**

The name of the file to write - defaults to the string `Makefile`.

## SCENARIOS

So, some common scenarios are:

1. Just include a `Build.PL` script (without a `Makefile.PL` script), and give installation directions in a `README` or `INSTALL` document explaining how to install the module. In particular, explain that the user must install `Module::Build` before installing your module.  
  
Note that if you do this, you may make things easier for yourself, but harder for people with older versions of CPAN or CPANPLUS on their system, because those tools generally only understand the *Makefile.PL/ExtUtils::MakeMaker* way of doing things.
2. Include a `Build.PL` script and a "traditional" `Makefile.PL`, created either manually or with `create_makefile_pl()`. Users won't ever have to install `Module::Build` if they use the `Makefile.PL`, but they won't get to take advantage of `Module::Build`'s extra features either.  
  
If you go this route, make sure you explicitly set `PL_FILES` in the call to `WriteMakefile()` (probably to an empty hash reference), or else `MakeMaker` will mistakenly run the `Build.PL` and you'll get an error message about "Too early to run Build script" or something. For good measure, of course, test both the *Makefile.PL* and the *Build.PL* before shipping.
3. Include a `Build.PL` script and a "pass-through" `Makefile.PL` built using `Module::Build::Compat`. This will mean that people can continue to use the "old" installation commands, and they may never notice that it's actually doing something else behind the scenes. It will also mean that your installation process is compatible with older versions of tools like CPAN and CPANPLUS.

## AUTHOR

Ken Williams <kwilliams@cpan.org>

## COPYRIGHT

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## SEE ALSO

*Module::Build*(3), *ExtUtils::MakeMaker*(3)