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Rocky Enterprise Linux 9.2 Manual Pages on command 'TAP::Parser.3perl'

\$ man TAP::Parser.3perl

TAP::Parser(3perl) Perl Programmers Reference Guide TAP::Parser(3perl)

NAME

TAP::Parser - Parse TAP output

VERSION

Version 3.43

SYNOPSIS

```
use TAP::Parser;

my $parser = TAP::Parser->new( { source => $source } );

while ( my $result = $parser->next ) {
    print $result->as_string;
}
```

DESCRIPTION

"TAP::Parser" is designed to produce a proper parse of TAP output. For an example of how to run tests through this module, see the simple harnesses "examples/".

There's a wiki dedicated to the Test Anything Protocol:

<<http://testanything.org>>

It includes the TAP::Parser Cookbook:

<<http://testanything.org/testing-with-tap/perl/tap::parser-cookbook.html>>

METHODS

Class Methods

"new"

```
my $parser = TAP::Parser->new(%args);
```

Returns a new "TAP::Parser" object.

The arguments should be a hashref with one of the following keys:

? "source"

CHANGED in 3.18

This is the preferred method of passing input to the constructor.

The "source" is used to create a `TAP::Parser::Source` that is passed to the "iterator_factory_class" which in turn figures out how to handle the source and creates a `<TAP::Parser::Iterator>` for it. The iterator is used by the parser to read in the TAP stream.

To configure the `IteratorFactory` use the "sources" parameter below.

Note that "source", "tap" and "exec" are mutually exclusive.

? "tap"

CHANGED in 3.18

The value should be the complete TAP output.

The tap is used to create a `TAP::Parser::Source` that is passed to the "iterator_factory_class" which in turn figures out how to handle the source and creates a `<TAP::Parser::Iterator>` for it. The iterator is used by the parser to read in the TAP stream.

To configure the `IteratorFactory` use the "sources" parameter below.

Note that "source", "tap" and "exec" are mutually exclusive.

? "exec"

Must be passed an array reference.

The exec array ref is used to create a `TAP::Parser::Source` that is passed to the "iterator_factory_class" which in turn figures out how to handle the source and creates a `<TAP::Parser::Iterator>` for it. The iterator is used by the parser to read in the TAP stream.

By default the `TAP::Parser::SourceHandler::Executable` class will create a `TAP::Parser::Iterator::Process` object to handle the source. This passes the array reference strings as command arguments to `IPC::Open3::open3`:

```
exec => [ '/usr/bin/ruby', 't/my_test.rb' ]
```

If any "test_args" are given they will be appended to the end of the command argument list.

To configure the `IteratorFactory` use the "sources" parameter below.

Note that "source", "tap" and "exec" are mutually exclusive.

The following keys are optional.

? "sources"

NEW to 3.18.

If set, "sources" must be a hashref containing the names of the TAP::Parser::SourceHandlers to load and/or configure. The values are a hash of configuration that will be accessible to the source handlers via "config_for" in TAP::Parser::Source.

For example:

```
sources => {  
  Perl => { exec => '/path/to/custom/perl' },  
  File => { extensions => [ '.tap', '.txt' ] },  
  MyCustom => { some => 'config' },  
}
```

This will cause "TAP::Parser" to pass custom configuration to two of the built-in source handlers - TAP::Parser::SourceHandler::Perl, TAP::Parser::SourceHandler::File - and attempt to load the "MyCustom" class. See "load_handlers" in TAP::Parser::IteratorFactory for more detail.

The "sources" parameter affects how "source", "tap" and "exec" parameters are handled. See TAP::Parser::IteratorFactory, TAP::Parser::SourceHandler and subclasses for more details.

? "callback"

If present, each callback corresponding to a given result type will be called with the result as the argument if the "run" method is used:

```
my %callbacks = (  
  test => \&test_callback,  
  plan => \&plan_callback,  
  comment => \&comment_callback,  
  bailout => \&bailout_callback,  
  unknown => \&unknown_callback,  
);  
my $aggregator = TAP::Parser::Aggregator->new;  
for my $file ( @test_files ) {  
  my $parser = TAP::Parser->new(  

```

```

    {
        source => $file,
        callbacks => \%callbacks,
    }
);
$parser->run;
$aggregator->add( $file, $parser );
}

```

? "switches"

If using a Perl file as a source, optional switches may be passed which will be used when invoking the perl executable.

```

my $parser = TAP::Parser->new( {
    source => $test_file,
    switches => [ '-llib' ],
} );

```

? "test_args"

Used in conjunction with the "source" and "exec" option to supply a reference to an @ARGV style array of arguments to pass to the test program.

? "spool"

If passed a filehandle will write a copy of all parsed TAP to that handle.

? "merge"

If false, STDERR is not captured (though it is 'relayed' to keep it somewhat synchronized with STDOUT.)

If true, STDERR and STDOUT are the same filehandle. This may cause breakage if STDERR contains anything resembling TAP format, but does allow exact synchronization.

Subtleties of this behavior may be platform-dependent and may change in the future.

? "grammar_class"

This option was introduced to let you easily customize which grammar class the parser should use. It defaults to TAP::Parser::Grammar.

See also "make_grammar".

? "result_factory_class"

This option was introduced to let you easily customize which result factory class the parser should use. It defaults to TAP::Parser::ResultFactory.

See also "make_result".

? "iterator_factory_class"

CHANGED in 3.18

This option was introduced to let you easily customize which iterator factory class the parser should use. It defaults to `TAP::Parser::IteratorFactory`.

Instance Methods

"next"

```
my $parser = TAP::Parser->new( { source => $file } );  
while ( my $result = $parser->next ) {  
    print $result->as_string, "\n";  
}
```

This method returns the results of the parsing, one result at a time. Note that it is destructive. You can't rewind and examine previous results.

If callbacks are used, they will be issued before this call returns.

Each result returned is a subclass of `TAP::Parser::Result`. See that module and related classes for more information on how to use them.

"run"

```
$parser->run;
```

This method merely runs the parser and parses all of the TAP.

"make_grammar"

Make a new `TAP::Parser::Grammar` object and return it. Passes through any arguments given.

The "grammar_class" can be customized, as described in "new".

"make_result"

Make a new `TAP::Parser::Result` object using the parser's `TAP::Parser::ResultFactory`, and return it. Passes through any arguments given.

The "result_factory_class" can be customized, as described in "new".

"make_iterator_factory"

NEW to 3.18.

Make a new `TAP::Parser::IteratorFactory` object and return it. Passes through any arguments given.

"iterator_factory_class" can be customized, as described in "new".

INDIVIDUAL RESULTS

If you've read this far in the docs, you've seen this:

```
while ( my $result = $parser->next ) {  
    print $result->as_string;  
}
```

Each result returned is a TAP::Parser::Result subclass, referred to as result types.

Result types

Basically, you fetch individual results from the TAP. The six types, with examples of each, are as follows:

? Version

TAP version 12

? Plan

1..42

? Pragma

pragma +strict

? Test

ok 3 - We should start with some foobar!

? Comment

Hope we don't use up the foobar.

? Bailout

Bail out! We ran out of foobar!

? Unknown

... yo, this ain't TAP! ...

Each result fetched is a result object of a different type. There are common methods to each result object and different types may have methods unique to their type. Sometimes a type method may be overridden in a subclass, but its use is guaranteed to be identical.

Common type methods

"type"

Returns the type of result, such as "comment" or "test".

"as_string"

Prints a string representation of the token. This might not be the exact output, however.

Tests will have test numbers added if not present, TODO and SKIP directives will be capitalized and, in general, things will be cleaned up. If you need the original text for the token, see the "raw" method.

"raw"

Returns the original line of text which was parsed.

"is_plan"

Indicates whether or not this is the test plan line.

"is_test"

Indicates whether or not this is a test line.

"is_comment"

Indicates whether or not this is a comment. Comments will generally only appear in the TAP stream if STDERR is merged to STDOUT. See the "merge" option.

"is_bailout"

Indicates whether or not this is bailout line.

"is_yaml"

Indicates whether or not the current item is a YAML block.

"is_unknown"

Indicates whether or not the current line could be parsed.

"is_ok"

```
if ( $result->is_ok ) { ... }
```

Reports whether or not a given result has passed. Anything which is not a test result returns true. This is merely provided as a convenient shortcut which allows you to do this:

```
my $parser = TAP::Parser->new( { source => $source } );  
while ( my $result = $parser->next ) {  
    # only print failing results  
    print $result->as_string unless $result->is_ok;  
}
```

"plan" methods

```
if ( $result->is_plan ) { ... }
```

If the above evaluates as true, the following methods will be available on the \$result object.

"plan"

```
if ( $result->is_plan ) {  
    print $result->plan;  
}
```

This is merely a synonym for "as_string".

"directive"

```
my $directive = $result->directive;
```

If a SKIP directive is included with the plan, this method will return it.

1..0 # SKIP: why bother?

"explanation"

```
my $explanation = $result->explanation;
```

If a SKIP directive was included with the plan, this method will return the explanation, if any.

"pragma" methods

```
if ( $result->is_pragma ) { ... }
```

If the above evaluates as true, the following methods will be available on the \$result object.

"pragmas"

Returns a list of pragmas each of which is a + or - followed by the pragma name.

"comment" methods

```
if ( $result->is_comment ) { ... }
```

If the above evaluates as true, the following methods will be available on the \$result object.

"comment"

```
if ( $result->is_comment ) {  
    my $comment = $result->comment;  
    print "I have something to say: $comment";  
}
```

"bailout" methods

```
if ( $result->is_bailout ) { ... }
```

If the above evaluates as true, the following methods will be available on the \$result object.

"explanation"

```
if ( $result->is_bailout ) {  
    my $explanation = $result->explanation;  
    print "We bailed out because ($explanation)";  
}
```

If, and only if, a token is a bailout token, you can get an "explanation" via this method.

The explanation is the text after the mystical "Bail out!" words which appear in the tap output.

"unknown" methods

```
if ( $result->is_unknown ) { ... }
```

There are no unique methods for unknown results.

"test" methods

```
if ( $result->is_test ) { ... }
```

If the above evaluates as true, the following methods will be available on the \$result object.

"ok"

```
my $ok = $result->ok;
```

Returns the literal text of the "ok" or "not ok" status.

"number"

```
my $test_number = $result->number;
```

Returns the number of the test, even if the original TAP output did not supply that number.

"description"

```
my $description = $result->description;
```

Returns the description of the test, if any. This is the portion after the test number but before the directive.

"directive"

```
my $directive = $result->directive;
```

Returns either "TODO" or "SKIP" if either directive was present for a test line.

"explanation"

```
my $explanation = $result->explanation;
```

If a test had either a "TODO" or "SKIP" directive, this method will return the accompanying explanation, if present.

```
not ok 17 - 'Pigs can fly' # TODO not enough acid
```

For the above line, the explanation is not enough acid.

"is_ok"

```
if ( $result->is_ok ) { ... }
```

Returns a boolean value indicating whether or not the test passed. Remember that for TODO tests, the test always passes.

Note: this was formerly "passed". The latter method is deprecated and will issue a warning.

"is_actual_ok"

```
if ( $result->is_actual_ok ) { ... }
```

Returns a boolean value indicating whether or not the test passed, regardless of its TODO status.

Note: this was formerly "actual_passed". The latter method is deprecated and will issue a warning.

"is_unplanned"

```
if ( $test->is_unplanned ) { ... }
```

If a test number is greater than the number of planned tests, this method will return true. Unplanned tests will always return false for "is_ok", regardless of whether or not the test "has_todo" (see TAP::Parser::Result::Test for more information about this).

"has_skip"

```
if ( $result->has_skip ) { ... }
```

Returns a boolean value indicating whether or not this test had a SKIP directive.

"has_todo"

```
if ( $result->has_todo ) { ... }
```

Returns a boolean value indicating whether or not this test had a TODO directive.

Note that TODO tests always pass. If you need to know whether or not they really passed, check the "is_actual_ok" method.

"in_todo"

```
if ( $parser->in_todo ) { ... }
```

True while the most recent result was a TODO. Becomes true before the TODO result is returned and stays true until just before the next non- TODO test is returned.

TOTAL RESULTS

After parsing the TAP, there are many methods available to let you dig through the results and determine what is meaningful to you.

Individual Results

These results refer to individual tests which are run.

"passed"

```
my @passed = $parser->passed; # the test numbers which passed
```

```
my $passed = $parser->passed; # the number of tests which passed
```

This method lets you know which (or how many) tests passed. If a test failed but had a TODO directive, it will be counted as a passed test.

"failed"

```
my @failed = $parser->failed; # the test numbers which failed
my $failed = $parser->failed; # the number of tests which failed
```

This method lets you know which (or how many) tests failed. If a test passed but had a TODO directive, it will NOT be counted as a failed test.

"actual_passed"

```
# the test numbers which actually passed
my @actual_passed = $parser->actual_passed;
# the number of tests which actually passed
my $actual_passed = $parser->actual_passed;
```

This method lets you know which (or how many) tests actually passed, regardless of whether or not a TODO directive was found.

"actual_ok"

This method is a synonym for "actual_passed".

"actual_failed"

```
# the test numbers which actually failed
my @actual_failed = $parser->actual_failed;
# the number of tests which actually failed
my $actual_failed = $parser->actual_failed;
```

This method lets you know which (or how many) tests actually failed, regardless of whether or not a TODO directive was found.

"todo"

```
my @todo = $parser->todo; # the test numbers with todo directives
my $todo = $parser->todo; # the number of tests with todo directives
```

This method lets you know which (or how many) tests had TODO directives.

"todo_passed"

```
# the test numbers which unexpectedly succeeded
my @todo_passed = $parser->todo_passed;
# the number of tests which unexpectedly succeeded
my $todo_passed = $parser->todo_passed;
```

This method lets you know which (or how many) tests actually passed but were declared as

"TODO" tests.

"todo_failed"

deprecated in favor of 'todo_passed'. This method was horribly misnamed.

This was a badly misnamed method. It indicates which TODO tests unexpectedly succeeded.

Will now issue a warning and call "todo_passed".

"skipped"

my @skipped = \$parser->skipped; # the test numbers with SKIP directives

my \$skipped = \$parser->skipped; # the number of tests with SKIP directives

This method lets you know which (or how many) tests had SKIP directives.

Pragmas

"pragma"

Get or set a pragma. To get the state of a pragma:

```
if ( $p->pragma('strict') ) {  
    # be strict  
}
```

To set the state of a pragma:

```
$p->pragma('strict', 1); # enable strict mode
```

"pragmas"

Get a list of all the currently enabled pragmas:

```
my @pragmas_enabled = $p->pragmas;
```

Summary Results

These results are "meta" information about the total results of an individual test program.

"plan"

```
my $plan = $parser->plan;
```

Returns the test plan, if found.

"good_plan"

Deprecated. Use "is_good_plan" instead.

"is_good_plan"

```
if ( $parser->is_good_plan ) { ... }
```

Returns a boolean value indicating whether or not the number of tests planned matches the number of tests run.

Note: this was formerly "good_plan". The latter method is deprecated and will issue a

warning.

And since we're on that subject ...

"tests_planned"

```
print $parser->tests_planned;
```

Returns the number of tests planned, according to the plan. For example, a plan of

'1..17' will mean that 17 tests were planned.

"tests_run"

```
print $parser->tests_run;
```

Returns the number of tests which actually were run. Hopefully this will match the number

of "\$parser->tests_planned".

"skip_all"

Returns a true value (actually the reason for skipping) if all tests were skipped.

"start_time"

Returns the wall-clock time when the Parser was created.

"end_time"

Returns the wall-clock time when the end of TAP input was seen.

"start_times"

Returns the CPU times (like "times" in perfunc when the Parser was created.

"end_times"

Returns the CPU times (like "times" in perfunc when the end of TAP input was seen.

"has_problems"

```
if ( $parser->has_problems ) {
```

```
    ...
```

```
}
```

This is a 'catch-all' method which returns true if any tests have currently failed, any

TODO tests unexpectedly succeeded, or any parse errors occurred.

"version"

```
$parser->version;
```

Once the parser is done, this will return the version number for the parsed TAP. Version

numbers were introduced with TAP version 13 so if no version number is found version 12 is

assumed.

"exit"

```
$parser->exit;
```

Once the parser is done, this will return the exit status. If the parser ran an executable, it returns the exit status of the executable.

"wait"

```
$parser->wait;
```

Once the parser is done, this will return the wait status. If the parser ran an executable, it returns the wait status of the executable. Otherwise, this merely returns the "exit" status.

"ignore_exit"

```
$parser->ignore_exit(1);
```

Tell the parser to ignore the exit status from the test when determining whether the test passed. Normally tests with non-zero exit status are considered to have failed even if all individual tests passed. In cases where it is not possible to control the exit value of the test script use this option to ignore it.

"parse_errors"

```
my @errors = $parser->parse_errors; # the parser errors
```

```
my $errors = $parser->parse_errors; # the number of parse_errors
```

Fortunately, all TAP output is perfect. In the event that it is not, this method will return parser errors. Note that a junk line which the parser does not recognize is "not" an error. This allows this parser to handle future versions of TAP. The following are all TAP errors reported by the parser:

? Misplaced plan

The plan (for example, '1..5'), must only come at the beginning or end of the TAP output.

? No plan

Gotta have a plan!

? More than one plan

```
1..3
```

```
ok 1 - input file opened
```

```
not ok 2 - first line of the input valid # todo some data
```

```
ok 3 read the rest of the file
```

```
1..3
```

Right. Very funny. Don't do that.

? Test numbers out of sequence

1..3

ok 1 - input file opened

not ok 2 - first line of the input valid # todo some data

ok 2 read the rest of the file

That last test line above should have the number '3' instead of '2'.

Note that it's perfectly acceptable for some lines to have test numbers and others to not have them. However, when a test number is found, it must be in sequence. The following is also an error:

1..3

ok 1 - input file opened

not ok - first line of the input valid # todo some data

ok 2 read the rest of the file

But this is not:

1..3

ok - input file opened

not ok - first line of the input valid # todo some data

ok 3 read the rest of the file

"get_select_handles"

Get an a list of file handles which can be passed to "select" to determine the readiness of this parser.

"delete_spool"

Delete and return the spool.

```
my $fh = $parser->delete_spool;
```

CALLBACKS

As mentioned earlier, a "callback" key may be added to the "TAP::Parser" constructor. If present, each callback corresponding to a given result type will be called with the result as the argument if the "run" method is used. The callback is expected to be a subroutine reference (or anonymous subroutine) which is invoked with the parser result as its argument.

```
my %callbacks = (  
  test => \&test_callback,  
  plan => \&plan_callback,  
  comment => \&comment_callback,
```

```

    bailout => \&bailout_callback,
    unknown => \&unknown_callback,
);
my $aggregator = TAP::Parser::Aggregator->new;
for my $file ( @test_files ) {
    my $parser = TAP::Parser->new(
        {
            source    => $file,
            callbacks => \%callbacks,
        }
    );
    $parser->run;
    $aggregator->add( $file, $parser );
}

```

Callbacks may also be added like this:

```

$parser->callback( test => \&test_callback );
$parser->callback( plan => \&plan_callback );

```

The following keys allowed for callbacks. These keys are case-sensitive.

? "test"

Invoked if "\$result->is_test" returns true.

? "version"

Invoked if "\$result->is_version" returns true.

? "plan"

Invoked if "\$result->is_plan" returns true.

? "comment"

Invoked if "\$result->is_comment" returns true.

? "bailout"

Invoked if "\$result->is_unknown" returns true.

? "yaml"

Invoked if "\$result->is_yaml" returns true.

? "unknown"

Invoked if "\$result->is_unknown" returns true.

? "ELSE"

If a result does not have a callback defined for it, this callback will be invoked.

Thus, if all of the previous result types are specified as callbacks, this callback will never be invoked.

? "ALL"

This callback will always be invoked and this will happen for each result after one of the above callbacks is invoked. For example, if Term::ANSIColor is loaded, you could use the following to color your test output:

```
my %callbacks = (  
  test => sub {  
    my $test = shift;  
    if ( $test->is_ok && not $test->directive ) {  
      # normal passing test  
      print color 'green';  
    }  
    elsif ( !$test->is_ok ) { # even if it's TODO  
      print color 'white on_red';  
    }  
    elsif ( $test->has_skip ) {  
      print color 'white on_blue';  
    }  
    elsif ( $test->has_todo ) {  
      print color 'white';  
    }  
  },  
  ELSE => sub {  
    # plan, comment, and so on (anything which isn't a test line)  
    print color 'black on_white';  
  },  
  ALL => sub {  
    # now print them  
    print shift->as_string;  
    print color 'reset';  
    print "\n";  
  }  
);
```

```
    },  
  );  
? "EOF"
```

Invoked when there are no more lines to be parsed. Since there is no accompanying TAP::Parser::Result object the "TAP::Parser" object is passed instead.

TAP GRAMMAR

If you're looking for an EBNF grammar, see TAP::Parser::Grammar.

BACKWARDS COMPATIBILITY

The Perl-QA list attempted to ensure backwards compatibility with Test::Harness. However, there are some minor differences.

Differences

? TODO plans

A little-known feature of Test::Harness is that it supported TODO lists in the plan:

```
1..2 todo 2
```

```
ok 1 - We have liftoff
```

```
not ok 2 - Anti-gravity device activated
```

Under Test::Harness, test number 2 would pass because it was listed as a TODO test on the plan line. However, we are not aware of anyone actually using this feature and hard-coding test numbers is discouraged because it's very easy to add a test and break the test number sequence. This makes test suites very fragile. Instead, the following should be used:

```
1..2
```

```
ok 1 - We have liftoff
```

```
not ok 2 - Anti-gravity device activated # TODO
```

? 'Missing' tests

It rarely happens, but sometimes a harness might encounter 'missing tests':

```
ok 1
```

```
ok 2
```

```
ok 15
```

```
ok 16
```

```
ok 17
```

Test::Harness would report tests 3-14 as having failed. For the "TAP::Parser", these tests are not considered failed because they've never run. They're reported as parse

failures (tests out of sequence).

SUBCLASSING

If you find you need to provide custom functionality (as you would have using `Test::Harness::Straps`), you're in luck: `TAP::Parser` and friends are designed to be easily plugged-into and/or subclassed.

Before you start, it's important to know a few things:

1.

All `"TAP::*"` objects inherit from `TAP::Object`.

2.

Many `"TAP::*"` classes have a SUBCLASSING section to guide you.

3.

Note that `"TAP::Parser"` is designed to be the central "maker" - ie: it is responsible for creating most new objects in the `"TAP::Parser::*"` namespace.

This makes it possible for you to have a single point of configuring what subclasses should be used, which means that in many cases you'll find you only need to sub-class one of the parser's components.

The exception to this rule are `SourceHandlers` & `Iterators`, but those are both created with customizable `IteratorFactory`.

4.

By subclassing, you may end up overriding undocumented methods. That's not a bad thing per se, but be forewarned that undocumented methods may change without warning from one release to the next - we cannot guarantee backwards compatibility. If any documented method needs changing, it will be deprecated first, and changed in a later release.

Parser Components

Sources

A TAP parser consumes input from a single raw source of TAP, which could come from anywhere (a file, an executable, a database, an IO handle, a URI, etc..). The source gets bundled up in a `TAP::Parser::Source` object which gathers some meta data about it. The parser then uses a `TAP::Parser::IteratorFactory` to determine which `TAP::Parser::SourceHandler` to use to turn the raw source into a stream of TAP by way of "Iterators".

If you simply want `"TAP::Parser"` to handle a new source of TAP you probably don't need to subclass `"TAP::Parser"` itself. Rather, you'll need to create a new

TAP::Parser::SourceHandler class, and just plug it into the parser using the sources param to "new". Before you start writing one, read through TAP::Parser::IteratorFactory to get a feel for how the system works first.

If you find you really need to use your own iterator factory you can still do so without sub-classing "TAP::Parser" by setting "iterator_factory_class".

If you just need to customize the objects on creation, subclass TAP::Parser and override "make_iterator_factory".

Note that "make_source" & "make_perl_source" have been DEPRECATED and are now removed.

Iterators

A TAP parser uses iterators to loop through the stream of TAP read in from the source it was given. There are a few types of Iterators available by default, all sub-classes of TAP::Parser::Iterator. Choosing which iterator to use is the responsibility of the iterator factory, though it simply delegates to the Source Handler it uses.

If you're writing your own TAP::Parser::SourceHandler, you may need to create your own iterators too. If so you'll need to subclass TAP::Parser::Iterator.

Note that "make_iterator" has been DEPRECATED and is now removed.

Results

A TAP parser creates TAP::Parser::Results as it iterates through the input stream. There are quite a few result types available; choosing which class to use is the responsibility of the result factory.

To create your own result types you have two options:

option 1

Subclass TAP::Parser::Result and register your new result type/class with the default TAP::Parser::ResultFactory.

option 2

Subclass TAP::Parser::ResultFactory itself and implement your own TAP::Parser::Result creation logic. Then you'll need to customize the class used by your parser by setting the "result_factory_class" parameter. See "new" for more details.

If you need to customize the objects on creation, subclass TAP::Parser and override "make_result".

Grammar

TAP::Parser::Grammar is the heart of the parser. It tokenizes the TAP input stream and produces results. If you need to customize its behaviour you should probably familiarize

yourself with the source first. Enough lecturing.

Subclass TAP::Parser::Grammar and customize your parser by setting the "grammar_class" parameter. See "new" for more details.

If you need to customize the objects on creation, subclass TAP::Parser and override "make_grammar"

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BUGS

Please report any bugs or feature requests to "bug-test-harness@rt.cpan.org", or through the web interface at <<http://rt.cpan.org/NoAuth/ReportBug.html?Queue=Test-Harness>>. We will be notified, and then you'll automatically be notified of progress on your bug as we make changes.

Obviously, bugs which include patches are best. If you prefer, you can patch against bleed by via anonymous checkout of the latest version:

```
git clone git://github.com/Perl-Toolchain-Gang/Test-Harness.git
```

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TAP::Parser(3perl)