NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

SYNOPSIS

```
 my $parser = SomePodProcessor->new;
 $parser->set_source( "whatever.pod" );
 $parser->run;
```

Or:

```
 my $parser = SomePodProcessor->new;
 $parser->set_source( $some_filehandle_object );
 $parser->run;
```

Or:

```
 my $parser = SomePodProcessor->new;
 $parser->set_source( \$document_source );
 $parser->run;
```

Or:

```
 my $parser = SomePodProcessor->new;
 $parser->set_source( \@document_lines );
 $parser->run;
```

And elsewhere:

```
 require 5;
 package SomePodProcessor;
 use strict;
 use base qw(Pod::Simple::PullParser);

 sub run {
   my $self = shift;
  Token:
   while(my $token = $self->get_token) {
     ...process each token...
   }
 }
```

DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of *Pod::Simple* and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a `run` method that calls `$token = $parser->get_token` to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

METHODS

my $token = $parser->get_token

> This returns the next token object (which will be of a subclass of

Pod::Simple::PullParserToken), or undef if the parser-stream has hit the end of the document.

$parser->unget_token($token)

$parser->unget_token($token1, $token2, ...)

> This restores the token object(s) to the front of the parser stream.

The source has to be set before you can parse anything. The lowest-level way is to call `set_source`:

$parser->set_source($filename)

$parser->set_source($filehandle_object)

$parser->set_source(\$document_source)

$parser->set_source(\@document_lines)

Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

$parser->parse_file(...)

$parser->parse_string_document(...)

$parser->filter(...)

$parser->parse_from_file(...)

For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven't started pulling tokens from yet:

my $title_string = $parser->get_title

> This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.
>
> For example, suppose you have a document that starts out:
>
> ```
> =head1 NAME
>
> Hoo::Boy::Wowza -- Stuff B<wow> yeah!
> ```
>
> $parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:
>
> ```
> =head1 Name
>
> Hoo::Boy::W00t -- Stuff B<w00t> yeah!
> ```
>
> Then you'll need to pass the `nocase` option in order to recognize "Name":
>
> ```
> $parser->get_title(nocase => 1);
> ```
>
> In cases where get_title can't find the title, it will return empty-string ("").

my $title_string = $parser->get_short_title

> This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".
>
> For example, suppose you have a document that starts out:
>
> ```
> =head1 NAME
> ```

```
Hoo::Boy::Wowza -- Stuff B<wow> yeah!
```

then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

```
=head1 NAME

Hooboy, stuff B<wow> yeah!
```

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

```
=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!
```

Then you'll need to pass the `nocase` option in order to recognize "Name":

```
$parser->get_short_title(nocase => 1);
```

If the title can't be found, then get_short_title returns empty-string ("").

$author_name = $parser->get_author

This works like get_title except that it returns the contents of the "=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the `nocase` otpion:

```
$parser->get_author(nocase => 1);
```

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

$description_name = $parser->get_description

This works like get_title except that it returns the contents of the "=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the `nocase` otpion:

```
$parser->get_description(nocase => 1);
```

$version_block = $parser->get_version

This works like get_title except that it returns the contents of the "=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT return the module's `$VERSION`!! To recognize a "=head1 Version\n\n[BIG BLOCK]\n" section, pass the `nocase` otpion:

```
$parser->get_version(nocase => 1);
```

NOTE

You don't actually *have* to define a `run` method. If you're writing a Pod-formatter class, you should define a `run` just so that users can call `parse_file` etc, but you don't *have* to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a `run` method.

SEE ALSO

Pod::Simple

Pod::Simple::PullParserToken -- and its subclasses *Pod::Simple::PullParserStartToken*, *Pod::Simple::PullParserTextToken*, and *Pod::Simple::PullParserEndToken*.

HTML::TokeParser, which inspired this.

SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, *http://github.com/theory/pod-simple/*. Feel free to fork and contribute, or to clone *git://github.com/theory/pod-simple.git* and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

* Allison Randal `allison@perl.org`

* Hans Dieter Pearcey `hdp@cpan.org`

* David E. Wheeler `dwheeler@cpan.org`