



Perl Changes, packaging & CPAN

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Summary

- problems & changes
- packaging
- CPAN tools
- Perl road-map



Perl in Fedora

Problems & changes

Problems

- Motto: “We suck at marketing.”
- developers prefer different languages
 - TMTOWTDI
 - missing applications
 - hard to maintain
 - beginners don't like command-line & vim/emacs editors
- employers can't find Perl developers



Changes

- new design of web-pages
- Perl booth/talk on every conference
 - good practices
 - modern Perl programming
- lot of new modules
- Ironman/woman contest
 - <http://www.enlightenedperl.org/ironman.html>
- PerlIDE
 - Padre, Kephra, Perlipse, vim-perl-support



Changes

- good practices
 - <http://www.blip.tv/file/4697401/>
 - <http://www.slideshare.net/kaokun/readable-perl>



Best practices

```
use strict;  
# all variables must be declare with my or  
own
```

```
use warnings;  
# warn you about uninitialized variables
```



Best practices

```
#!/usr/bin/perl
```

```
open my $file, "<",  
'./a' or die $!;  
  
close $file or die $!;
```

```
#!/usr/bin/perl  
use autodie;
```

```
open my $file, "<",  
'./a';  
  
close $file;
```

Best practices

```
use feature ':5.10';
```

```
say "Hello!";
```

or

```
use feature 'say';
```

```
say "Hello!";
```

Best practices

```
open(FILE,"<","./a");  
close FILE;
```

```
use autodie;  
open my $file, '<',  
'./file.txt';  
close $file;
```

```
perlritic --brutal|--gentle somescript.pl
```

Best practices

```
{ print "ok" }          if ($value)  
if ($value);           { print "ok"; }
```

```
perlcritic --brutal|--gentle somescript.pl
```

Best practices

use Perl::Tidy;

or

perltidy somescript.pl

example of setting by author of module

<http://settingPerl::Tidy>

Changes

- Modern Perl
 - chromatic's module, book, blog
 - http://www.onyxneon.com/books/modern_perl



Modern::Perl

```
use Modern::Perl;  
# enables strict and warnings pragmas  
# features available in Perl 5.10  
# in future - useful CPAN modules
```

<http://search.cpan.org/Modern-Perl>



Changes

- Mo[ou]se
 - <http://search.cpan.org/dist/Moose/lib/Moose.pm>
 - postmodern object system for Perl 5
 - Moose -> Mouse



Changes

- webservers & framework
 - ideas from Rack (Ruby) & WSGI (Python)
 - Perl Web Server Gateway Interface - PSGI
 - Miyagawa
 - Plack - glue for frameworks & servers
 - frameworks - Catalyst, Jifty, Dancer
 - <http://www.slideshare.net/miyagawa/plack>
- many packages -> RPM



Perl in Fedora

Packaging

Packaging - cpanspec

- interesting projects
- https://fedoraproject.org/wiki/Perl_Wishlist
- cpanspec
- rules/guidelines:
 - <https://fedoraproject.org/wiki/Packaging/Perl>
 - <http://fedoraproject.org/wiki/Perl/updates>
 - %{?perl_default_filter} & RPM4.9



Packaging - filter

```
%prep  
%setup -q -n CGI.pm-%{version}  
  
%{?filter_setup:  
%filter_from_provides /perl(Fh)/d  
%filter_from_provides /perl(utf8)/d  
%filter_setup  
}
```



Perl in Fedora

CPAN tools

CPAN

- CPAN – classical tool
 - query, download and build Perl modules from CPAN sites
- CPANPLUS
 - API & CLI access to the CPAN mirrors



CPAN - tools

- cpanm - App::cpanminus
 - zero dependencies 5.8.x and higher
 - quite output
 - no indexing, no interactive shell
 - <http://www.slideshare.net/miyagawa/cpanminus>



cpanm

```
[root@localhost ~]# cpanm Module::Build
Fetching
http://search.cpan.org/CPAN/authors/id/D/DA/DAG
OLDEN/Module-Build-0.3624.tar.gz ... OK
==> Found dependencies: Module::Metadata,
version, Perl::OSType
Fetching
http://search.cpan.org/CPAN/authors/id/D/DA/DAG
OLDEN/Module-Metadata-1.000004.tar.gz ... OK
Configuring Module-Metadata-1.000004 ... OK
==> Found dependencies: version
```



Perl tests

- testing is boring -> let's make it easy
- Perl has test on everything



Test::More

```
use Test::More tests => 1;  
BEGIN { use_ok( 'CGI' ); }
```



Test::More

Various ways to say "ok":

```
ok($got eq $expected, $test_name);  
is ($got, $expected, $test_name);  
isnt($got, $expected, $test_name);
```

<http://search.cpan.org/Test/More.pm>



Cpantesters

- <http://cpantesters.org/>
- <http://wiki.cpantesters.org/wiki/QuickStart>
- matrix:
 - <http://search.cpan.org/Salesforce-0.57/>
 - <http://search.cpan.org/WWW-Salesforce-0.2/>



Perl in Fedora

Perl road-map

Perl road-map

- Fedora - perl-5.12.3
- even/odd(development) releases
- minor updates are just bugfix releases with minimum of changes
- every spring new major release



More for reading

- <http://blogs.perl.org/>
- <http://ironman.enlightenedperl.org/>
- <http://www.modernperlbooks.com/mt/index.html>
- <http://oreilly.com/catalog/9780596527242/>
- <http://oreilly.com/catalog/9780596520106/>

