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
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

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

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

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

```perl
if ($value) {
    print "ok";
}
if ($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
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](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
[root@localhost ~]# cpanm Module::Build
Fetching
http://search.cpan.org/CPAN/authors/id/D/DA/DAGOLDEN/Module-Build-0.3624.tar.gz ... OK
==> Found dependencies: Module::Metadata, version, Perl::OSType
Fetching
http://search.cpan.org/CPAN/authors/id/D/DA/DAGOLDEN/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 on everything
use Test::More tests => 1;
BEGIN { use_ok( 'CGI' ); }
Various ways to say "ok":
ok($got eq $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 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://oreilly.com/catalog/9780596527242/
- http://oreilly.com/catalog/9780596520106/