

Introduction To Perl 6 Modules

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Perl 6 Modules



What is Perl 6?

- It is a specification for a language.
- There are many implementations.
- NOT the successor to Perl 5 (more like a kid sister).

What are Perl 6 Modules?

- Just like Perl 5 modules, Perl 6 modules are units of distributable and useful code.
- The CPAN of Perl 6 is called <http://modules.perl6.org>
- How many modules does your unreleased language have?

Which flavor of Perl 6?

- Different flavors of Perl 6 have implemented different feature sets.
- Rakudo Perl 6 currently has the largest feature set and the most number of current contributors.
- Most Perl 6 modules worked on Rakudo at least some time in the past.

Anatomy of a Perl 6 Module

- It looks just about the same!
- META.info (like a Build.PL or Makefile.PL)
- README*
- lib/
- t/

What does META.info look like?

It is just a chunk of JSON with project metadata.

```
{  
  "name"       : "Algorithm::Soundex",  
  "version"    : "*",  
  "description" : "Soundex Algorithm in Perl 6",  
  "depends"     : [],  
  "source-url" : "git://github.com/leto/perl6-Algorithm-Soundex.git"  
}
```

How Do I Install a Perl 6 Module

You must enlist the help of a panda!



Installing Panda

First, we grab panda (the cpanminus of Perl 6):

- `git clone git://github.com/tadzik/panda.git`
- `cd panda`
- `sh bootstrap.sh` # needs a perl6 binary in PATH

Installing a Perl 6 Module with Panda

So simple, even your grandma could do it:

- `panda install Algorithm::Soundex`

How Do I Start Writing a Perl 6 Module?

- `git clone https://github.com/tadzik/module-starter`
- `cd module-starter`
- `module-starter --description="some junk"`
Some::Junk

Now you have directory `Some-Junk/` with a `META.info!`

Show me the code!

This is the essence of all Perl 6 modules

```
1  use v6;  
2  
3  class Algorithm::Soudex {  
4      method soundex($string -> Str) {  
5          # stuff  
6      }  
7  }  
8
```

Writing Tests for a Perl 6 Module

Running Tests for a Perl 6 Module

Getting Involved

Hack Session

Ok, let's do some hacking already.

- Checkout source code (git clone ...)
- Build Rakudo
- Run the Perl 6 Test Suite (long but fun!)
- Submit bugs if any tests fail
- Experiment!

Thanks

- Larry
- Eric Wilhelm
- Patrick Michaud
- The Perl Foundation
- Everyone working on Parrot, Rakudo and Perl 6
- PDX.pm for listening to my rants

Resources

- <http://perl6.org>
- <http://modules.perl6.org>
- TODO: perl 6 planet
- #perl6 on irc.freenode.net
- #parrot on irc.perl.org