How Do I Install Perl 6 Module

How Do I Write . Perl 6 Module?

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### 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/

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# 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"}
```

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# How Do I Install a Perl 6 Module

You must enlist the help of a panda!



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# Installing Panda

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

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

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# Installing a Perl 6 Module with Panda

So simple, even your grandma could do it:

panda install Algorithm::Soundex

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# 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!

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### Show me the code!

#### This is the essence of all Perl 6 modules

```
use v6;
class Algorithm::Soundex {
    method soundex($string -> Str) {
        # stuff
}
}
```

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# Writing Tests for a Perl 6 Module

```
Very similar to Perl 5 tests:
use v6:
use Test;
# because prove -l doesn't work for perl 6 modules
BEGIN { push @*INC, './lib'; }
plan 3;
use Algorithm::Soundex;
my Algorithm::Soundex $s .= new();
isa ok($s, Algorithm::Soundex);
pass("Loaded Algorithm::Soundex");
mv $soundex = $s.soundex("Robert");
is($soundex, 'R163'):
```

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# Running Tests for a Perl 6 Module

The easiest way is still prove.

prove -e perl6 -rv t/

```
(sarkomand)(~/git/perl6-Algorithm-Soundex master )$ prove -e perl6 -rv t/
t/00-basic.t ..
1..3
ok 1 - The object is-a 'Algorithm::Soundex()'
ok 2 - Loaded Algorithm::Soundex
ok 3 -
ok
All tests successful.
Files=1, Tests=3, 2 wallclock secs ( 0.01 usr 0.02 sys + 1.94 cusr 0.1
Result: PASS
```

This requires a recent (3.x) TAP::Harness!

#### How Do I Get Famous?

You say you want your Perl 6 module on http://modules.perl6.org ?

- fork perl6/ecosystem on Github
- add your project to the META.list file
- Send a pull request

META.list is just a file which lists every META.info in the ecosystem.

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# Getting Involved

- http://perl6.org
- http://modules.perl6.org
- Planet Perl 6 http://planetsix.perlfoundation.org
- #perl6 on irc.freenode.net
- #parrot on irc.perl.org

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#### Thanks!

- Larry
- Everyone working on Parrot, Rakudo and Perl 6
- PDX.pm for listening to my rants

