

]

Contribute to Pugs

Contribute to Pugs

向Pugs贡献

😊 *agentzh* (章亦春) 😊

2007.6

☺ *What* is Pugs?

什么是 *Pugs*?

Audrey Tang's *first* mail to p6l
for Pugs's birth

唐凤发送到 p6l 的
宣告Pugs 诞生的第一封邮件

perl.perl6.language

Featherweight Perl6.

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☆ 3 messages - [Collapse all](#)

Autrijus Tang [View profile](#)

[More options](#) Feb 3 2005, 2:42 am

Hi. Today I have started working on specifying and implementing Featherweight Perl6 (FP6), a side-effect-free subset of Perl6:

<http://autrijus.org/pugs/fp6/> # FP6, the language
<http://autrijus.org/pugs/> # Pugs, the implementation

Since I am not well-versed in past Perl6 language discussions, my reading of Synopses is bound to be incorrect in many fundamental regards.

It's *no longer*
a featherweight Perl 6.

它不再是
轻量级的 Perl 6 了

pugscod: **Pugs**

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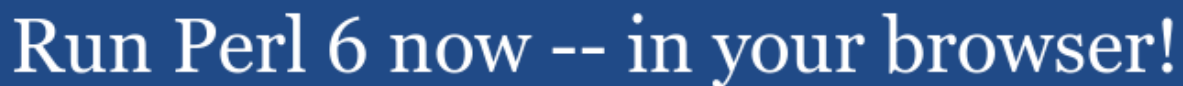
What is Pugs?

Pugs is an implementation of Perl 6, written in Haskell. It aims to implement the full Perl6 specification, as detailed in the [Synopses](#). For more information, please see the [overview](#) and this [interview](#).

Pugs 是用 *Haskell* 编写的一个 Perl 6 的实现。
它旨在实现“纲要”定义的整个 Perl 6 规格。

It even *runs*
in your **web browser**!

它甚至能运行在
你的浏览器中！



```
Loading Prelude... done.  
pugs> 'hello, world!'.say  
hello, world!  
Bool::True
```

...unlike how it was with Perl 5, *none* of these projects (Pugs, parrot, and others) is designed to be the **Official Perl**.
Perl 6 is *anything* that passes the **official test suite**.

-- Perl 6 Synopsis 1

和 Perl 5 不同的是，这些项目（Pugs, parrot 及其他）
中**没有一个**被设计为**官方的 Perl 6**.
任何东西，只要通过了**官方测试集**，都是 Perl 6.

☺ *Why* contribute to Pugs?

为什么向 Pugs 贡献？

We *are* implementing
Perl 6!

我们*正在*实现Perl 6!

Hyper operators

use v6;

my @res =

(1,2,3,4) >>+<< (1,2,3,4);

@res now is (2,4,6,8)

Junctions

use v6;

if \$num == 3 | 7 | 9 {

...

}

Junctions

use v6;

if \$num == 3 | 7 | 9 {

...

}

use v5;

if (\$num == 3 || \$num == 7 || \$num == 9) {

...

}

subroutine signature

use v6;

sub add (\$a, \$b) {

\$a + \$b;

}

modern OO support

use v6;

class Dog {

has \$.tail is rw;

has @.legs;

has \$!brain;

method set_legs (@legs) {

@.legs = @legs;

}

}

Rules and grammars

```
rule statement_list {  
    <statement>*  
}
```

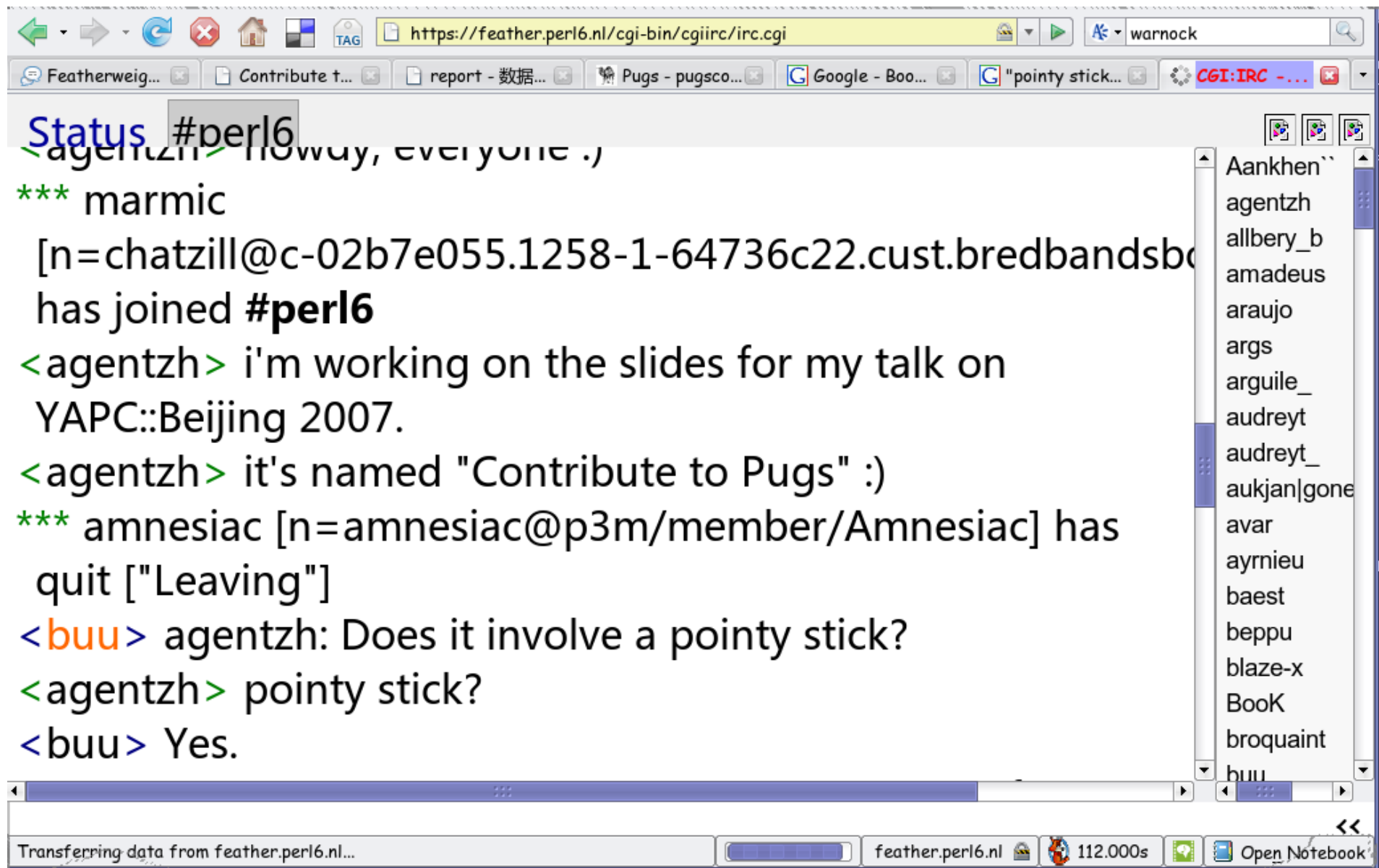
```
rule statement {  
    <label>*  
    [  
        | <statement_control>  
        | <block>  
        | <EXPR>  
        [ <statement_mod_cond> <EXPR> ]?  
        [ <statement_mod_loop> <EXPR> ]?  
    ]  
}
```

We have the *coolest* people
in the world.

我们拥有世界上最酷的人。

*#perl6 on irc.freenode.net
is our room!*

*irc.freenode.net 上的 #perl6
是我们的房间！*



<xinming> GeJ: Could you ask on *#perl*?

**<GeJ> Already did that, but as the summarizer
often says "Warnock applies"**

**<GeJ> hence my desperate attempt to ask
the-best-of-the-best-of-the-best
*of the perl community.***

We have Audrey Tang!

我们拥有唐凤！



Audrey Tang

<xinming> make: *** [pugs] Error 2

<xinming> audreyt: I got this while compiling

<dakkar> xinming: me too, trying after a make distclean

<audreyt> **fixed**

<audreyt> the Syck_stub nightmare is fixed too

<audreyt> there's no need to rm Syck every build, yay

<gaal> audreyt++

<dakkar> audreyt: you're *faster* than my compiler!

<TimToady> P6 is a functional language like haskell, sorta... :)

<ludan> TimToady: i'm not an active part of P6 :(

<TimToady> don't let audreyt hear you say that, or you'll have a commit bit before you know it...

<ludan> ok :)

[snip]

<audreyt> ludan: danieleludovici at email.it ?

<ludan> audreyt: nooooooooooooo :)

<TimToady> oops, too late...

We have Larry Wall!

我们拥有 Larry Wall!



Larry Wall

<TimToady> would you like a **commit bit** to pugs?

<zafoeta> yes. that is my intention

<TimToady> msg me your email and I'll get one sent

<TimToady> to /msg rather. or just mail to larry@wall.org

<zafoeta> wow, i am now talking to *larry wall*??

<TimToady> I'll never tell...

<zafoeta> ***honoured***

We have Flavio Glock!

我们拥有 Flavio Glock!

We have the Perl 6 project manager!

我们拥有 *Perl 6* 项目经理！

<fglock> obra: I'd like some help from the
Perl 6 project manager

<obra> Ok. What can I do for you?

<fglock> help making a roadmap for v6/mp6/kp6

<obra> Ok. You know more about the technology
than me. How can I help with the roadmap

We have the p5p people!

我们拥有 p5p 的人们！

<lichtkind> *dmq*: i was really impressed
from your work

<dmq> welches?

<lichtkind> dmq on **per5 regex engine**

<dmq> ach, danke.

<dmq> :-)

<dmq> we all stand on the *shoulders*
of giants

😊 *How* to contribute to Pugs?

如何向 Pugs 贡献？

☆ **Contribute** to Pugs
by writing *Perl 6* code

通过编写 *Perl 6* 代码
向 Pugs 贡献

Our *test suite* is
in pure Perl 6!

我们的测试集是用
纯的 Perl 6 写成的!

use v6;

use Test;

plan 1;

L<S04/Closure traits/INIT "at run time" ASAP>

my \$str;

is \$str, 'begin', 'BEGIN block';

INIT {

\$str ~= 'begin';

}

Tag a group of tests with a **smartlink**!

Tag a group of tests with a **smartlink**!

```
# L<S04/Closure traits/INIT "at run time" ASAP>
```

BEGIN {...}* at compile time, ASAP, only ever runs once

CHECK {...}* at compile time, ALAP, only ever runs once

- Show t/closure_traits/check.t lines 7–35 (5 ✓, 0 ✕) -

INIT {...}* at run time, ASAP, only ever runs once

- Hide t/closure_traits/init.t lines 7–56 (8 ✓, 0 ✕) -

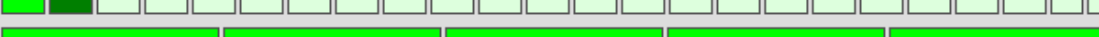
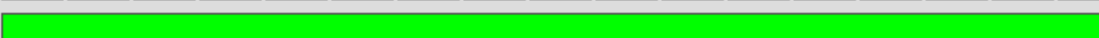
```
# L<S04/"Closure traits"/INIT "at run time" ASAP>
```

```
# INIT {...} blocks in "void" context
```

```
{
```

```
    my $str;
```

```
✓ is $str, "begin1 begin2 init ", "init blocks run after  
begin blocks";
```

ext/CGI/t/redirect.t	OK		100.00%
ext/CGI/t/remote.t	OK		100.00%
ext/CGI/t/server.t	OK		100.00%
ext/CGI/t/util.t	OK		100.00%
ext/Cipher/t/0-cipher-oo.t	OK		100.00%
ext/Cipher/t/1-cipher-functional.t	OK		100.00%
ext/Cipher/t/1-cipher-procedural.t	OK		100.00%
ext/Cipher/t/arcfour.t	OK		100.00%
ext/Cipher/t/caesar-all.t	OK		100.00%
ext/Cipher/t/caesar-julius.t	OK		100.00%
ext/Cipher/t/caesar-rot13.t	OK		100.00%
ext/Config-Tiny/t/basic.t	OK		100.00%
ext/DateTime-Set/t/basic.t	OK		100.00%
ext/DateTime/t/basic.t	FAILED		58.33%
ext/DateTime/t/day_of_year.t	OK		100.00%
ext/DateTime/t/last-day.t	OK		100.00%
ext/DateTime/t/quarter.t	OK		100.00%
ext/DateTime/t/ymd.t	OK		100.00%
ext/FA-DFA/t/DFA.t	OK		100.00%

Some part of **Pugs** is written in *Perl 6*.

Example: src/perl6/Prelude.pm

```
# Prelude.pm  
use v6-alpha;  
module Prelude-0.0.1;  
  
=kwid
```

There are a couple of things going on here.

- * These are perl6 implementations of /builtins/**
- * They sometimes use Pugs internals to do the job**
- * Some of this had not been specced yet (need S29 work).**

Perl 6 in Perl 6
MiniPerl6
KindaPerl6

☆ **Contribute** to Pugs
by writing *Perl 5* code

Pugs::Compiler::Rule

<http://search.cpan.org/perldoc?Pugs::Compiler::Rule>

smartlinks.pl

Moritz Lenz's *irclogs*

<http://moritz.fau2k3.org/irclog/>

[htt...pm](#)
[cmail...](#)
[Pugs -...](#)
[Contri...](#)
[Run P...](#)
[S01](#)
[G morit...](#)
[Revisi...](#)
[IRC ...](#)

IRC log for #perl6, 2007-05-07

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All times are in GMT.

Time	Nick	Message
		bsb joined #perl6
		autin joined #perl6
		nipotan changed the nick to nipotaway
		REPLeffect joined #perl6
01:12	svnbot6	r16210 rhr++ [Date.pm] use named args to BUILD
01:14	rhr	when I run ext/DateTime/t/basic.t there's now a 50/50 chance that all test pass, which is an improvement!
		araujo joined #perl6
		lambdabot joined #perl6
		sreeram_ joined #perl6
		rindolf joined #perl6
		TimToady_ joined #perl6
		TimToady changed the nick to TimToady

☆ **Contribute** to Pugs
by writing *Haskell* code

Contact me via email



agentzh@gmail.com

These slides are *powered* by
Sporx and *Takahashi++*

Thank you!



