Pugs

Perl 6 For Real

http://pugscode.org/

Autrijus Tang CUFP 2005, Tallinn

is ergonomic



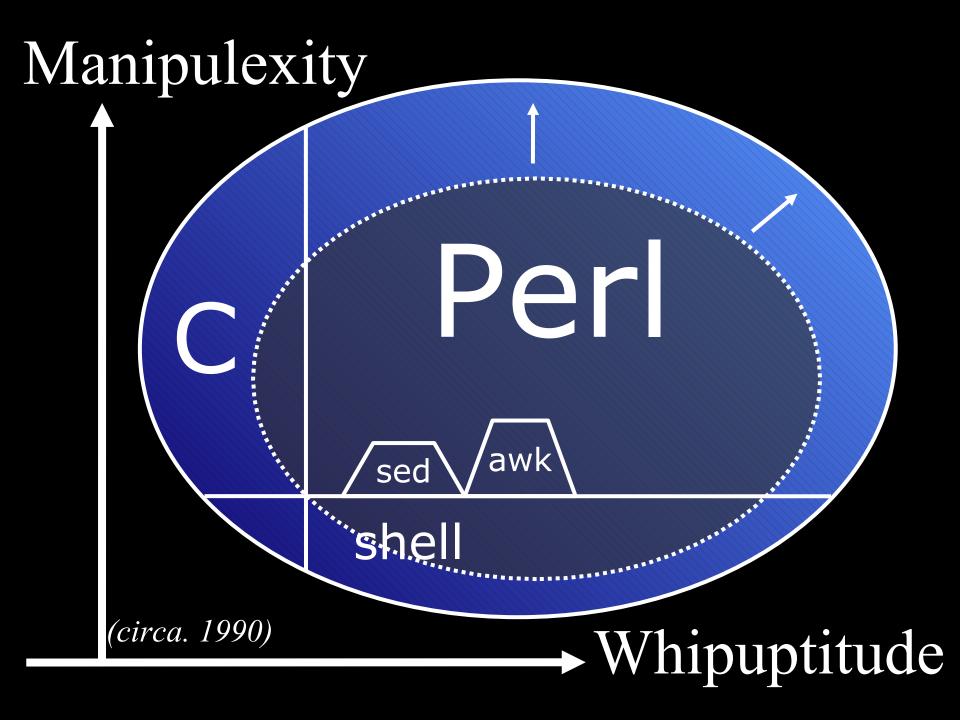
is for

Practical

Manipulexity

d

Whipuptitude



Abstraction

Closures Bless / Tie BEGIN block

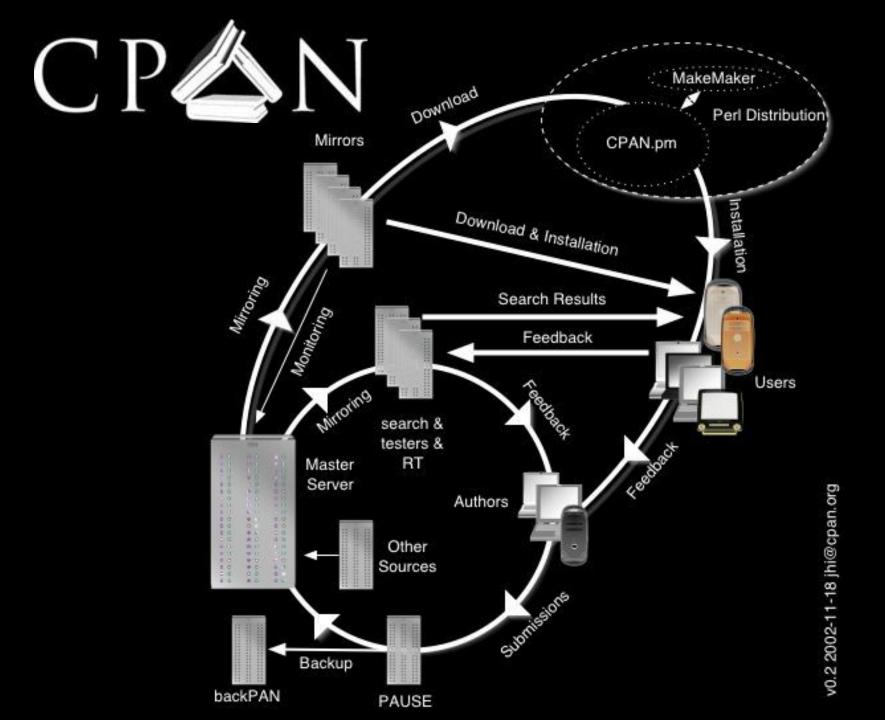
Shorthand

-> Natural

Regex Contexts as Topic

Stepping sideways

is versatile



No coding Best coding

10⁺ years 2500⁺ authors 8000+ modules

Smoke Testing Issue Tracking Rating & Discussion Package Management

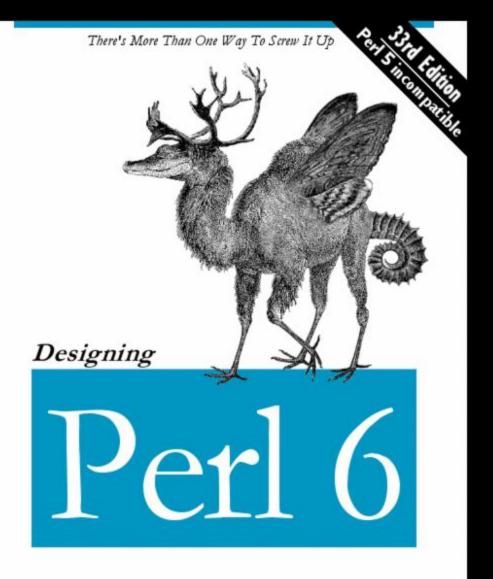
Vocabulary

> Syntax

Addictive Super glue

Syndrome

is powerful



NOT'REALLY®

A committee - and look at the mess we ended up with

RE

Parrot

Apocalypses

Lazy Evaluation

Rebindable Grammar

Dependent Constrained Soft Typing

Traits Metamodel

MMD on Type & Value

Syntactic Aspartame without Bloat

use perl5:DBI; use jsan:DOM;

...but it stayed lmaginary for 5 years

Perl6::Rules P6C/PIR PGE/PAST

Deadlocked: Insufficient Manipulexity

is fantastic

Powered by





SVK steals from the best: Darcs

"The Dream that stuff are made of"

"An alien language"

Swork in C Terabytes of AFP Evil Binary Format Old AIX machine

Parse::AFP Prototype in per15 Leaks horribly Hard to refactor

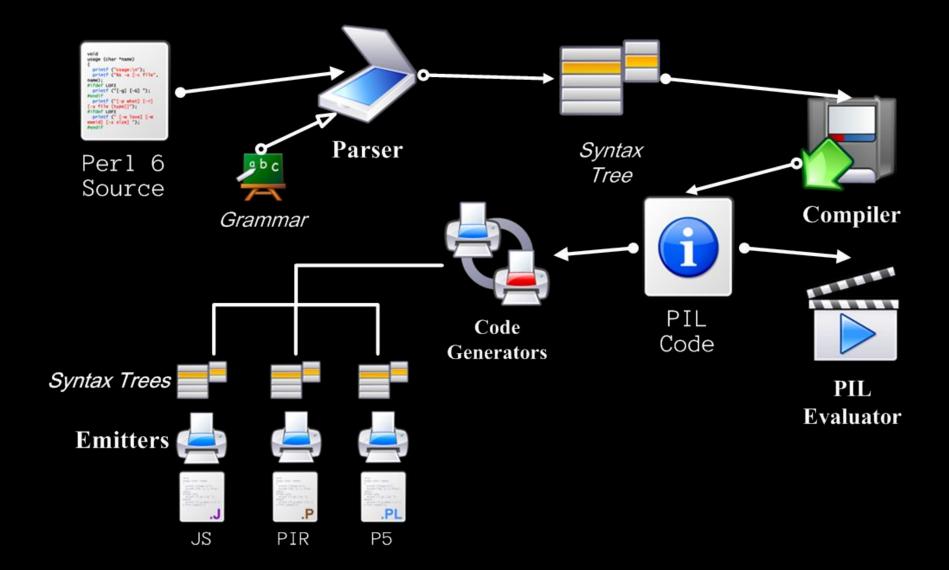
OpenAFP.hs 30 days 3000 lines Highly efficient

touchForeignPtr unsafeInterleaveIO WriterT ReaderT IO 3-arg class with Fundeps DSL, TH, Generics (Kudos to #haskell)

Feb 1st TaPL arrived as an exercise...

Bugs Outlook Outloo

is expansive



Feb 6th Primitive Interpreter $(1|2)+(3|4)\rightarrow(4|5|6)$ Parsec.Expr

Feb 16th Imperative runtime say "Hello, world" ContT ReaderT

Feb 23rd

Test.pm runs is (1+1, 2, 'add') 10,000 tests today

Mar 19th PCRE Regex s:p5:g/x/Y/; hsregex

Apr 26th BEGIN blocks use fp; unsafe Perform IO

May 25th Embedded Perl5/Parrot AddHandler mod pugs FFI & hsc2hs

Jun 24th Per16-PIL-Parrot make smoke-pir GADT & Fundeps

Jul 14th PIL—Per15 make smoke-per15 DrIFT

Jul 17th PIL—Javascript make smoke-js Passes 90% tests now

Aug 1st Self-hosting Object Model class Class is Object; Ported to JS, P5, P6

Sep 21st Blondie Type inferencer Codegen to native C

People 1

are alive

Metaverse Universe (Runtime Internals) (User Space) genesis Legend MetaClass .meta theos ::Class (demiurge) @:super = :: Object .ref \$.name ⇒ :: Object genesis 🕈 $\$.x \Rightarrow 1$ @:super ⇒ ø $\$.y \Rightarrow 2$ %:attr ⇒ ø .isa %:attr ⇒ \$.name @:super %:submeth ⇒ BUILD @:MRO %:attr %:meth... %:meth ⇒ BUILDALL %:meth ⇒ superclasses Class DESTROYALL MRO dispatcher is_a... isa can id pneuma ::Object %:classmeth ⇒ CREATE metamorph **** isa can new bless Instance

\$point

key ⇒ val

instance data

%:meth ⇒ move ::Point

logos

\$.name ⇒ : :Point

%:attr ⇒ \$.x \$.y

@:super ⇒ ::Object

\$.name ⇒ ::Class

%:meth ⇒ add_meth

gnosis

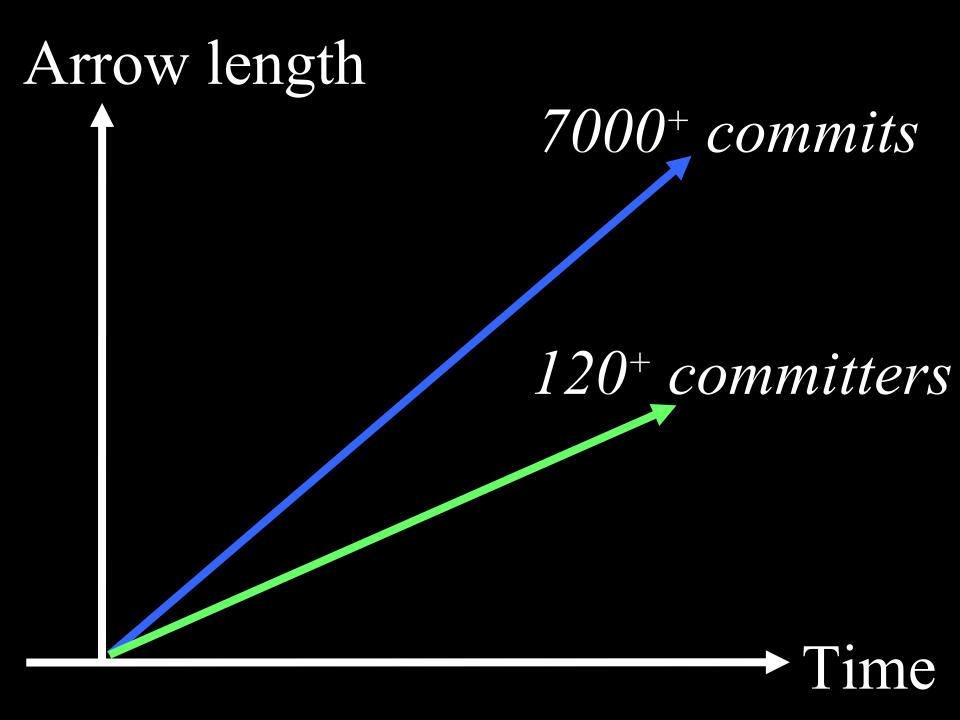
%:classmeth ⇒ Ø

@:super ⇒ ø

%:attr ⇒ ø %:submeth ⇒ ø

- Oftun

Anarchistic Development



ary ary Acamels

Hper16 106 Cli Journals

Poetry Obfuscation JAPH

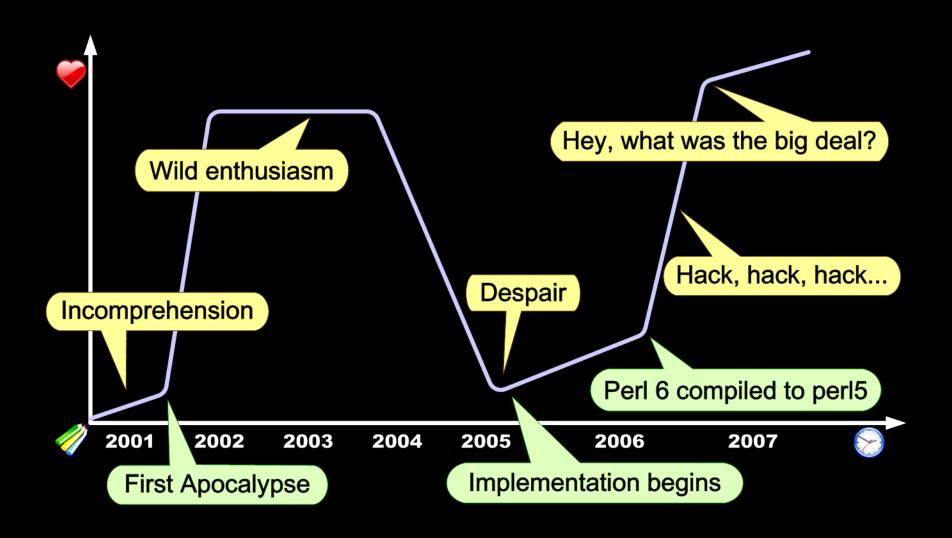
Hackathons Taipei Vienna Toronto Tel-Aviv

...and more

BIANS

are for real

Perl 6 - (Imaginary) Timeline



Initial Release 6.0 6.2 Functions 6.28 Objects 6.283 Grammars

6.2831 Types
 6.28318 Macros
 6.283185 Self-host

use pugs;

import Pugs JSAN().use('pugs') #include <pugs.h>

CLR? JVV? YARV?

Visiolize Formalize

Erdösing Wanderdekade

Feb 1st, 2006

Thank you!

