

Perl

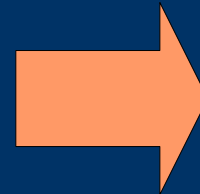
Steven Espinosa
Daniel Schep
Virginia Walker



History, Man. It's Wild.

- Developed by Larry Wall
- Started in 1987
- Version 1.0 was released to the comp.sources.misc newsgroup on December 18, 1987.
- Several versions of Perl since

That guy



Call me ... PERL!

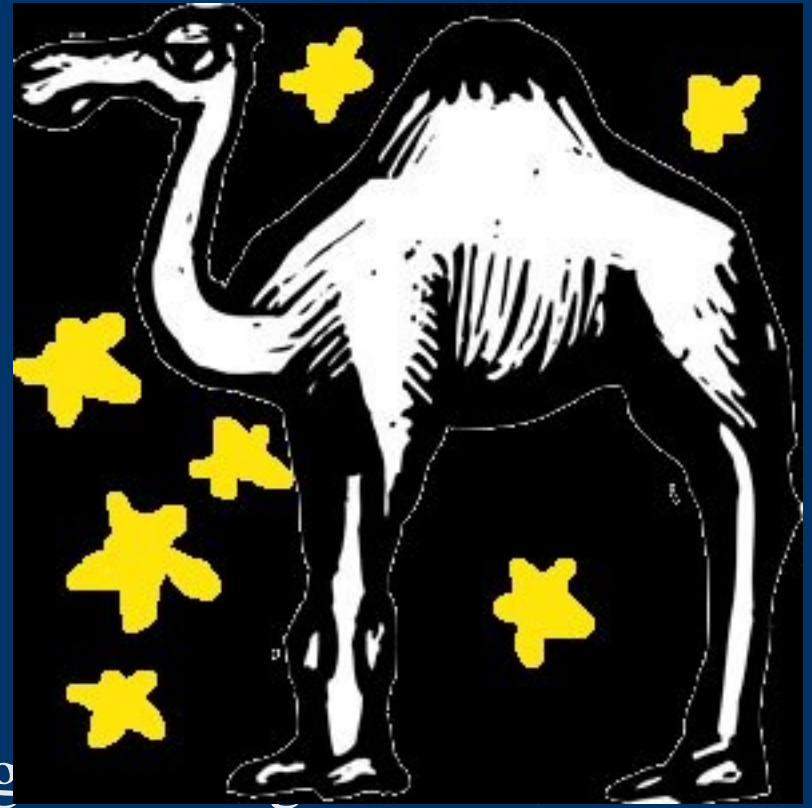
- "Perl" after the Parable of the Pearl
 - Unfortunately PEARL programming language
 - Therefore, Pearl was transformed into Perl
 - Perl: language
 - perl: interpreter program
 - Owned: PERL
-
-

Visions of Versions

- Perl 2: 1988 better regular expression engine.
 - Perl 3: 1989 added support for binary data streams.
 - Perl 4: 1991 "The Camel Book" aka Programming Perl (Vanny Schep)
 - Perl 5: 1994 nearly complete rewrite of the interpreter
 - Perl 5 added features: objects, reference, local variables, and modlues
 - Perl 5.8.8
-
-

Perls in Space

- Perl 6
- 2000
- Remove "historical warts"
- "easy things should stay easy, hard things impossible things should get hard."
- Request for Comments/ Suggestions
- No end in sight.... YET



Perly Whites

- Design Goals of Perl
 - Make efficient use of expensive programmers (unlike C)
 - Uses greater CPU time and memory in order to do tasks for the user
 - automatic memory management
 - dynamic typing
 - string lists
 - Perl is concise and natural for humans to read
-
-

Handling your *Perl*

- Anything
 - CGI scripts
 - LAMP (Linux, Apache, MySQL, Perl)
 - Processing large amounts of data
 - Tying together systems and interfaces not designed to work together
-
-

Pretty Perls

- Slash
 - Bugzilla
 - WxPerl
 - Movable Type
 - Amazon.com
 - LiveJournal.com
 - Ticketmaster.com
 - IMDb.com
-
-

“Tim Today”

Perl mottoes or Perl *expressions*

- *TIMTOWTDI pronounced “Tim Today” there is more than one way to do it*
 - *Perl: the Swiss Army Chainsaw of Programming Languages*
 - *“No unnecessary limits”*
 - *“The Duct Tape of the Internet”*
-
-

Perls of Wisdom

- Hello World

```
print hello world ;
```

- Shebang

```
#!/usr/bin/perl
```

- Variables in strings

```
print Hi $person ;
```

- Default Variable

```
$_    $@
```

What's my type?

- Scalars

```
$s1 = hello ;  
$s2 = 0 ;  
$s3 = 0.0 ;
```

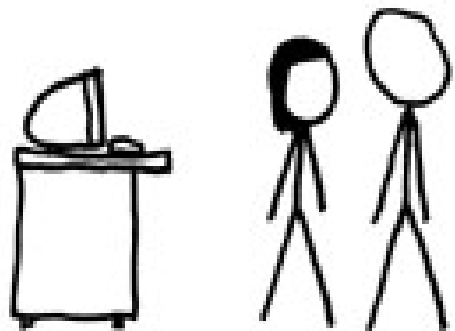
- Arrays

```
@a = (a,b,c,d,e);  
print $a[3];
```

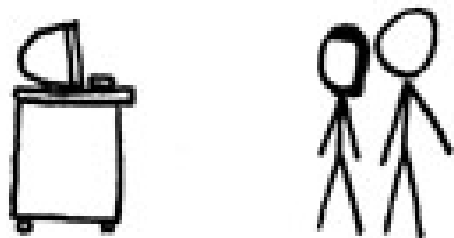
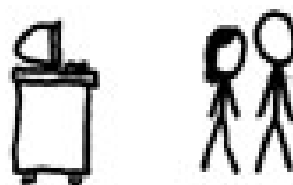
- Hashes

```
%h = (red => 0xff0000,  
      blue => 0x0000cc);  
print $h{red};
```

EVERYBODY STAND BACK.



I KNOW REGULAR EXPRESSIONS.



/regex/ not reggae, mo n

- How to match

```
$a =~ /some regex/
```

- Quantifiers

```
/a*/      /a+/      /a?/      /a{3,5}/
```

- Find and replace

```
s/O/A/;
```

```
s/01*0//;
```

A GOD'S LAMENT

SOME SAID THE WORLD SHOULD BE IN PERL;
SOME SAID IN LISP.
NOW, HAVING GIVEN BOTH A WHIRL,
I HELD WITH THOSE WHO FAVORED PERL.
BUT I FEAR WE PASSED TO MEN
A DISAPPOINTING FOUNDING MYTH,
AND SHOULD WE WRITE IT ALL AGAIN,
I'D END IT WITH
A CLOSE-PAREN.

