

Introduction to Perl

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Outline

- 1 Overview
- 2 Quick Get Started
- 3 Syntax
- 4 Examples

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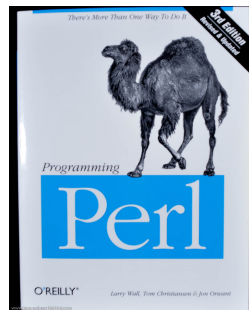
What is Perl?

Perl

- Practical Extraction and Report Language
- Pathologically Eclectic Rubbish Lister

Perl: History 1

- 1.0: December 18, 1987, Larry Page
- 2.0: 1988, a better regular expression
- 3.0: 1989, support binary data streams
- 4.0, 1991
- Programming Perl, Camel Book, for Perl 4.0



Perl: History 2

Perl 5

- 5.000: October 17, 1994, rewrite of the interpreter Objects, lexical variables, modules and references are added.
- 5.002: new prototypes feature.
- Comprehensive Perl Archive Network(CPAN), 1995.
- 5.004: May 15, 1997, UNIVERSAL package and CGI.pm module.
- 5.8: July 18, 2002, unicode, a new I/O, thread
- 5.10: December 18, 2007
- 5.20: May 27, 2014, subroutine signature, slice.

Perl: History 3

Perl 6

- Perl 6 design process was first announced on July 19, 2000
- As of 2014, none of Perl 6 implementations are considered "complete".
 - Rakudo Perl: Perl 6 for virtual machines.
 - Pugs: Perl 6 written in Haskell.
 - v6.pm: a pure Perl 5 implementation of Perl 6.
 - Yapsi: a Perl 6 compiler and runtime written in Perl 6 itself.

Applications

Applications

- text processing
- CGI programming: Craigslist, IMDb, Slashdot and so on;
- graphics programming: Perl/Tk, WxPerl
- system administration
- network programming
- bioinformatics

References

Books

- Learning Perl sixth Edition;
- Mastering Perl;
- Advanced Perl;
- Programming Perl;

Official Website

<http://www.perl.org/>

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Install

Download and Install

Download: <http://www.perl.org/get.html>

- Unix/Linux: preinstalled
- Mac OS: preinstalled
- Windows:
 - ActiveState Perl: A binary distribution for Win
 - Strawberry Perl: Open source
 - DWIM Perl: based on Strawberry and include many useful CPAN modules

Install: editor

Editors

- Vim: editor god
- Emacs: god's editor
- Notepad++: fast and easy to use
- Atom, sublime text, textmate ...

Hello Perl!

```
1 #!/usr/bin/perl
2
3 =hello
4 Hello example for GNB5010
5 Author: Gang Chen
6 =cut
7
8 use warnings;
9 use strict;
10
11 print "Hello, Perl!\n";
```

see hello.pl

Input and Run

- ① Input the source codes by using a editor
- ② Save the source codes to a file named hello.pl
- ③ Execute the file:
 - Add execution permission to the file and execute directly
 - Execute the file by using perl interpreter

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3 **Syntax**

- Basic Syntax
- Regular Expression
- Input and Output
- Object Oriented Programming

4 Examples

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Thanks!