

PERL

PROGRAMMING LANGUAGE SURVEY ASSIGNMENT

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DEVELOPER

It is designed by LARRY WALL in the year 1987. It is a general-purpose Unix scripting language created to make report processing easier.

- It is used for mission **critical projects** in the public and private sectors.
- **Perl is a stable, cross platform programming language.**
- Perl is an Open Source software, licensed under its Artistic License, or the GNU General Public License (GPL).



- It is a multi-paradigm language in which it is functional imperative, object oriented (class based) and reflective.
- The functional languages facilitate the functions that the program represents, instead of only stating changes as the program executes, statement by statement.
- Object-oriented programming (OOP) is a programming paradigm based upon objects (having both data and methods) that aims to incorporate the advantages of modularity and reusability.



FEATURES

The Perl languages borrow features from other programming languages including C, Sh, AWK and sed. They provide the text processing facilities without the arbitrary data lengths of many contemporary Unix command line tools. “PERL” refers to Perl 5, but from 2000 to 2019 it also referred to its redesigned “sister language”, Perl 6 before the latter’s name was officially changed to Raku in October 2019. Perl 5 gained widespread popularity in the late 1990s as a CGI scripting language i.e., Common Gateway Interface which is used by the web servers to run an external program to complete user requests.

In addition to CGI, Perl 5 is used for the system administration, network programming, finance, bioinformatics and other applications, such as GUIs.

The overall structure of Perl is procedural in nature, with variables, expressions, assignment statements, brace-delimited blocks, controls structures, and subroutines. It also takes features from shell programming. All variables are marked with sigils, which allow variables to be interpolated directly into strings. However, Perl uses sigils on all accesses to variables and unlike most other languages here, the Sigle does not denote the type of the variable but the type of expression.



APPLICATIONS

- PERL IS AN OPTIONAL COMPONENT OF THE POPULAR LAMP TECHNOLOGY STACK FOR WEB DEVELOPMENT, IN LIEU OF PHP OR PYTHON.
- PERL IS USED EXTENSIVELY AS A SYSTEM PROGRAMMING LANGUAGE IN THE DEBAIN LINUX DISTRIBUTION.
Perl has many and varied applications, compounded by the availability of many standard and third-party modules.
Perl has chiefly been used to write CGI scripts: large projects written in perl include
 - cPanel: - Web hosting control panel software. It provides a graphical Interface (GUI) and automation tools designed to simplify the website owner or the “end user”
 - Slash: - A content management system, originally created for Slashdot, one of the oldest celebrative sites on the internet.
 - Bugzilla: - This is a web-based general purpose bug tracking system and testing tool originally developed and used by the Mozilla project
 - (Request Tracker): - This is a ticket tracking software written in Perl to coordinate tasks and manage requests among the online community of users



APPLICATIONS

- TWiki: - TWiki is a Perl-based structured wiki application, typically used to run a collaboration, platform, knowledge or a document management system, a knowledge base, or team portal.
- Movable type: - Movable Type is a weblog publishing system developed by the company six apart

High traffic websites that use Perl extensively include

- Princline.com: -This is an online travel agency for finding discount rates for travel related purchases such as airline ticket and hotel stays
- Craigslist: -It is an American classified advertisements website with sections devoted to jobs, housing for sale, items wanted, services, community service, gigs, resumes and discussion forms.
- IMDb: -IMDb is an online database of information related to films, television series, videogames and streaming content including all the stuff related to the particular biodata
- LiveJournal: - This is a Russian- owned social networking service where users can keep a blog, journal, or diaries.



- DuckDuckGo: -This is an internet search engine that emphasizes protecting searchers privacy and avoiding the filter bubble of personalized search results
 - Slashdot: - This is a social news website that originally billed itself as “News for Nerds. Stuff that Matters”.
 - Ticketmaster: - American ticket sales and distribution company based on Beverly hills, California with operations in many countries around the world
- Perl is often used as glue language, tying together systems and interfaces that were not specifically designed to interoperate and for converting or processing large amount of data for tasks such as creating reports.



HELLO WORLD PROGRAM

- **STEP 1: Transfer the file to Perl Interpreter**

Always in Perl, the first line starts with a pair of characters `#!`. It insists Perl interpreter how the file should be executed. Here, the file should be transferred to Perl interpreter that resides in `/usr/bin/perl` folder. So, the first line of the program will go this way,
`#!/usr/bin/perl`

- **STEP 2: Program in Perl**

A program is a specific module in Perl package which has the control over some functions of the compile time or Run time behavior of Perl, which is strict or warnings. So, the next two lines go like this,
`use strict;`
`use warnings;`

- **Step 3: Use of `print()` function:**

astly displaying the output, we use `print()` function to display a string in Perl.
`print("Hello World n");`



CODE

```
#!/usr/bin/perl  
Modules used  
use strict;  
use warnings;  
Print function  
print("Hello World");
```

OUTPUT

Hello World



REFERENCES

DATA:- <https://en.wikipedia.org/wiki/Perl>

CODE:- <https://www.geeksforgeeks.org/hello-world-program-in-perl/>

