SETC Training Corporate Logo

Web Development Training: Advanced Perl Programming (PERLA, 4 jours)

Description

The course Advanced Perl Programming (Web Development Training) teaches you to write powerful & flexible Perl scripts. The training includes modules, references, advanced regular expressions & text manipulation to name a few. The course also covers network programming & database access with Perl.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Introduction

- Perl Benefits and Drawbacks
- The Perl Environment
- The Perl Lifecycle
- The PERL Application Structure
- About Scope, Packages and Modules
- Running Perl Code
- Debugging Perl Code
- Accessing Documentation and Help

Using and Importing Modules

- The Standard Distribution
- Using Modules
- Functional Interfaces
- Selecting What to Import
- Object-Oriented Interfaces
- The Comprehensive Perl Archive Network
- Installing Modules from CPAN
- Setting the Path

Lists and Arrays

- Accessing the Elements of an Array
- Special Array Indices
- List Literals
- List Assignment
- Interpolating Arrays into Strings
- The foreach Control Structure
- Scalar and List Context
- <STDIN> in List Context

Working with Subroutines

- Defining a Subroutine
- Invoking a Subroutine
- Return Values
- Arguments
- Private Variables in Subroutines
- Variable-Length Parameter Lists

About Lexical (my) Variables
The use strict Pragma
The return Operator
Non-scalar Return Values
Persistent, Private Variables
Input and Output
Input from Standard Input
Input from the Diamond Operator
The Invocation Arguments
Output to Standard Output
Formatted Output with printf
Filehandles
Opening a Filehandle
Fatal Errors with die
Using Filehandles
Reopening a Standard Filehandle
Output with say
Hashes
What Is a Hash?
Hash Element Access
Hash Functions
Typical Use of a Hash
The %ENV hash
Working with Regular Expressions
What Are Regular Expressions?
A Simple Example
Understanding Character Classes
Matches with m//
Option Modifiers
Working with Anchors
The Binding Operator, =~
Interpolating into Patterns
The Match Variables
General Quantifiers
Precedence
Processing Text
Substitutions with s///
The split Operator
The join Function
m// in List Context
Regular Expressions
Processing Text with sed
Processing Text with awk
Input and Output with File Handles
File IO Overview
About IO Operations and the Filehandles Data Type
Manipulating Directories
Opening a File
Reading File Data
Writing to a File

Dealing with Complex Data Structures
Performance Considerations
Process Management
The system Function
The exec Function
Environment Variables
Using Backquotes to Capture Output
Processes as Filehandles
Using Fork
Sending and Receiving Signals
Introduction to References
Performing the Same Task on Many Arrays
Taking a Reference to an Array
Dereferencing the Array Reference
Modifying the Array
Nested Data Structures
Simplifying Nested Element References with Arrows
References to Hashes
About File-handle References
About Subroutine References
Introducing OO Programming with PERL
What is an Object?
Using Objects in Perl
Creating Classes
Creating Properties
Creating Methods
About Constructors
About Destructors
Network Programming with PERL
Network Programming Fundamentals
Installing the Right Modules
Making a Connection
Working with IO::File, IO::Handle, and IO::Socket
Working with Sockets
Working with Net::Ftp, Net::Telnet, Net::SMTP
Working with LWP
Working with HTML::Parser
Database Programming
Database Programming Overview
Understanding Handles
Connecting to the Database
Creating a SQL Query
Reading the Results
Updating the Database
About Transaction Management
About Error Checking in DBI
Using Parameterized Statements
Statement Handle Attributes
Other Handle Attributes
Working with BLOBs and LONGs