

# Intermediate Perl

## Course Outline

### Advanced regular expressions

- Modifiers
- Getting the Nth occurrence of a match
- Greedy vs non-greedy matches
- Assertions
- Reading from filehandles using split
- Multiple line matching
- Commenting regular expressions
- Alternative Delimiters
- Additional resources
- Lab Exercises

### Advanced formatted output

- Review the format statement
- Advanced format statement features
- printf and sprintf
- Using select
- The <> operator
- Additional resources
- Lab exercises

### Exploring useful built-in variables

- Perl's built-in variables
- Variables reference chart
- Use english
- ID variables
- Status variables
- Separator variables
- The signal handle variable
- Version of Perl
- Program start time

- Lab exercises

#### Advanced File Handling

- Displaying the file position
- Moving the file position
- Opening files for reading and writing
- Making files within your script
- Locking files
- Flushing output buffers
- Lab exercises

#### Pragmas

- Perl pragmas
- Pragma chart
- Review: use strict
- Predeclaring subroutines
- Predeclaring global variables
- Lab exercises

#### Exploring useful built-in modules

- Built-in modules
- Module table
- Cwd
- Env
- File
- Math
- Sys
- Text
- Fatal
- Lab exercises

#### Debugging Tools

- Review the w-switch
- Review The perl debugger
- Debugger commands

- Diagnostics
- Carp
- Data:dumper
- Lab exercises

#### Perl/Tk Basics

- Working with windows
- Types of widgets
- Geometry managers
- Creating widgets
- The OO nature of the Tk module
- Lab Exercises

#### Perl TK Widgets

- Frames
- Labels
- Buttons
- Checkbuttons
- Radiobuttons
- Listboxes
- Scrollbars
- Scales
- Entries
- Creating menus

#### Geometry Managers

- pack options
- The after and before option
- The anchor and side option
- The fill option
- Padding with pack
- Managing widgets with pack
- Binding
- The focus command

- Lab exercises

#### Appendix A Database Interfaces

- Perl databases
- Using DBM
- Overview of DBI

#### Appendix B Perl style/coding standards

- Overview of Perl style
- The man page's style guide
- Tom Christiansen's style guide
- The perl beautifier