



Course 591: Tcl Programming (3-days)

Course Description...

Tcl is a meta language. Short for *Tool Command Language*, and pronounced *T-C-L* or *tickle*, a powerful interpreted programming language developed by John Ousterhout. With this language you write it once, use it on all systems and it looks like a native port. This class emphasizes *learning by doing!*

Prerequisites...

This class was designed for those with a minimum programming background. Familiarity with the keyboard is necessary and programming experience is a plus.

Course Outline...

Getting Started

- Command Line tclsh
- Writing to a Stream
- Variables
- Substitution
- Reading from a Stream
- Grouping
- Math Expressions
- Creating Scripts
- Command if
- Command Execution

Strings and Lists

- String Processing
- Fixed Parameter Lists

Procedure

- Simple Procedures
- Fixed Parameter Lists
- Return Values
- Variable Parameter Lists
- Command Line Parameters



Procedure (continued...)

- Default Values
- Local and Global Scope
- Up References

Flow of Control

- More on if
- while
- array
- for
- foreach
- break and continue

Error Handling

- Command exit
- Command catch
- Command exec
- Command eval

I/O and Files

- Stdin, Stdout
- File Manipulations
- File Attributes
- Executing Files
- Read and Writing to Files

Pattern Matching

- Globbing
- Regular Expressions

Modularization

- What Is a Package?
- Using a Package
- Package Creation Introduction