

Complete Ruby programming

A 3 day **Hands on** training course



Description

This course starts with a quick-start session and then explains the language in detail from the bottom up. Hands on sessions follow all the major sessions to reinforce the theory.



Key outcomes

By the end of the course delegates will be able to:

- ✓ Read Ruby programs.
- ✓ Write Ruby programs.
- ✓ Debug Ruby programs.



Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.



Details

Who will benefit?

Anyone wishing to program in Ruby.

Prerequisites

Software development fundamentals.

Duration: 3 days

Overall rating:



Generic Training



Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols "on the wire".

"Friendly environment with expert teaching that teaches the why before the how."
G.C. Fasthosts

Small Class Sizes



We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.

"Excellent course. The small class size was a great benefit..."
M.B. IBM

Hands On Training



The majority of our courses use hands on sessions to reinforce the theory.

"Not many courses have practice added to it. Normally just the theoretical stuff is covered."
J.W. Vodafone

Our Courseware



We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.

"Comprehensive materials that made the course easy to follow and will be used as a reference point."
V.B. Rockwell Collins

Customise Your Course



Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.

"I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on."
S.R. Qinetiq

Complete Ruby programming

Course Content

Introduction

A tour of Ruby, Try Ruby, A sudoku solver in Ruby.

The Structure and execution of Ruby

Lexical structure, Syntactic structure, Files structure, Program encoding, Program execution.

Datatypes and objects

Numbers, text, Arrays, Hashes, Ranges, Symbols, True, false, and nil, Objects.

Expressions and operators

Literals and keyword literals, Variable references, Constant references, Method invocations, Assignments, Operators.

Statements and control structures

Conditionals, loops, Iterators and enumerable objects, Blocks, Altering flow control, Exceptions and exception handling, BEGIN and END, Threads, fibres and continuations.

Methods, Procs, Lambdas and closures

Defining simple methods, Method names, Methods and parentheses, Method arguments, Procs and lambdas, Closures, Method objects, Functional programming.

Classes and modules

Defining a simple class, Method visibility: public, protected, privates, Subclassing and inheritance, Object creation and initialization, Modules, Loading and requiring modules, Singleton methods and Eigenclass, Method lookup, Constant lookup.

Reflection and metaprogramming

Types, classes and modules, Evaluating strings and blocks, Variables and constants, Methods, Hooks, Tracing, ObjectSpace and GV, Custom control structures, Missing methods and missing constants, Dynamically creating methods, Alias chaining.

The Ruby platform

Strings, Regular expressions, Numbers and Math, Dates and times, Collections, Files and directories, Input/output, Networking, Threads and concurrency.

The Ruby environment

Invoking the Ruby interpreter, The Top-level environment, Practical extraction and reporting shortcuts, Calling the OS, Security

What our customers say

"Absolutely brilliant, very knowledgeable and helpful trainer would recommend to teach anyone. Kept me interested 100% of the time which is very impressive as this does not happen often, if at all!"

O. B. Network Rail

"The best technical course I've been on!"

L. W. Fujitsu Telecoms Europe

"Very well thought out and structured course. Would recommend 100%. Lots of equipment, good quality."

A.R. Unipart

"Course content is interesting. Relevant to current systems and presented well."

S.S-T. Arqiva

Step back

Software development fundamentals

Complete Ruby programming

Step forward

Definitive Puppet for engineers

Git and GitHub for engineers