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What is Ruby on Rails Training?

Ruby on Rails is quickly establishing itself as the preferred choice amongst developers. Quick and easy to install and use, Rails takes web applications development to a new level for programmers. Whether you're an experienced developer or completely new to web programming, Ruby on Rails is the best thing you'll ever discover.

Both Ruby and Rails provide a lot of code for you, making it quick and simple to create skeletal applications that are both highly customisable and extendable.

This two day training course is led by an instructor who provides a valuable introduction to Ruby on Rails. This training course is intended for delegates who are familiar with web technologies and are looking to gain a core practical understanding of the advantages and excitement that developing with Ruby on Rails brings.

Course Objectives

Upon completion of this Ruby on Rails training course, the delegate will:

- Program in Ruby
- Understand the Rails Framework
- Harness the speed and ease of developing a Rails application
- Create and use XML in Rails applications
- Use Ajax in Rails applications
- Build dynamic database-driven web sites

Course Introduction

- Administration and Course Materials
- Structure and Agenda of Course
- Introductions to Delegate and Trainer

Session 1: What is Ruby?

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- Ruby Basics

Session 2: Ruby Language Elements

- Variables and Constants
- Operators
- Assignments
- Integer, Float and String Formats
- Single and Double Quotes
- Here Documents

Session 3: Control Structures

- Blocks and if Statements
- Boolean and Range Operators
- Conditionals - Else and Case
- Loops - While, For, Until
- Break, Next, Retry and Redo

Session 4: Classes and Objects

- Objects, Classes and Methods
- Constructors and Attributes
- Instance and Class Variables
- Local and Global Variables
- Class and Instance Methods
- Including External Files - Load and Require

Session 5: Input and Output in Ruby

- Opening and Closing Files
- Reading From and Writing to Files

Session 6: Arrays and Hashes in Ruby

- Arrays and Hashes
- Building an Array
- The %w Shortcut
- Nested Arrays
- Iterators

Session 7: Object Orientation

- Inheritance
- Base Classes and Subclasses
- What's Inherited
- Overriding
- Abstract Classes
- Polymorphism
- Multiple Inheritance
- Class Structure
- Visibility

Session 8: Classes and Object Session

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- Mixins
- Destructors and Garbage Collection
- Freezing Objects

Session 9: Object Orientation Techniques

- Programming and Method Standards
- Formal Methods
- Unified Modelling Language (UML)

Session 10: Strings and Regular Expressions

- Meta Characters
- Anchors, Literals, Character Groups and Counts
- Matching in Ruby
- Modifiers i, o, x and m
- Pattern Matching Variables

Session 11: Special Variables and Pseudo - Variables

- ARGV and $0
- Special Variables
- Environment Variables
- Pseudo-Variables
- Reserved Words

Session 12: Exceptions

- Begin and End
- Raise and Rescue
- Throw and Catch

This two day instructor-led introduction to Ruby on Rails is intended for delegates who are familiar with web technologies and are looking to gain a core practical understanding of the advantages and excitement that developing with Ruby on Rails brings.