

Day - 1

Ruby Essential – Agenda

- **An introduction to Ruby**

- Overview
- 10,000ft View of Ruby
- Installing Ruby
- Interactive Shell Demo
- IDE Options and RubyMine Demo
- Variables, nil, Methods and Scope
- Flow Control, Operators, Comments
- Some Useful Methods
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- **Classes and Objects**

- Overview
- Creating Classes and Objects
- Instance Variables and Methods
- Accessors and Virtual Attributes
- Initialization and Cleanup
- Inheritance
- Class Methods and Variables
- Method Visibility
- Executable Class Bodies and self
- Open Classes and Monkey Patching
- Equality

Ruby Intermediate – Agenda

- **Flow Control**

- Overview
- Branching
- Conditional Initialization
- Flow Control Using and/or
- Case Statement
- Looping Constructs
- Looping with Iterators and Blocks
- Controlling Loop Flow
- Handling Exceptions
- Raising Exceptions
- Exceptions: ensure and else Clauses
- Exceptions: Retrying and Rescue Modifier
- Throw and Catch

- **Standard Types**

- Overview
- Booleans
- Numbers
- Strings
- String Operators and Methods
- Regular Expressions
- Symbols
- Arrays
- Enumerable
- Hashes
- Ranges
- Parallel Assignment

Ruby Advance - Agenda

- **Methods in Depth**

- Methods in Depth
- Overview
- Default Parameter Values
- Variable Length Parameter Lists
- Keyword Arguments
- Method Aliasing
- Operators
- Method Calls as Messages
- `method_missing`

- **More Ruby Tools: Blocks, Constants, Modules**

- Overview
- Blocks
- Block Local Variables
- Using Blocks
- From Block to Proc
- Lambdas
- Using Procs and Lambdas
- Constants
- Modules

- **Putting Ruby to Work**

- Overview
- Organizing Source Code
- Gems and Managing Dependencies
- Testing Frameworks
- Debugging Tools
- Packaging and Distributing Code
- Resources