

Intro to Ruby Programming

GoSkills online course syllabus

Friday, May 17, 2024

Skill level Lessons Accredited by

Beginner 41 CPD

Pre-requisites Video duration Estimated study time

lone 2h 39m 21h for all materials

Instructor John Elder

Introduction

Course Introduction
What to expect from this course.

- Install Sublime and Git Bash
 How to install Sublime Text and Git Bash Terminal for your development environment.
- Install Ruby
 Installing Ruby is easy with RubyInstaller.org
- Hello World and c9 Transition
 In this lesson we'll create our first Ruby program!

Ruby Programming Basics

- 5 Comments and Errors

 How to comment code and deal with errors.
- 6 Arithmetic Operators

 How to do basic math with Ruby.
- Floats and Integers
 Understanding the difference between floats and integers and when to use each.

0	Comparison Operators
8	How to compare two or more items with Ruby.

- 9 Variables
 Storing information in variables is easy!
- 10 Assignment Operators

 How to assign items to variables (and other things).
- 1 1 Getting User Input with Gets
 Allowing the user to interact with your program.
- 1 2 Conditional Statements

 How to use if/else/elsif statements in Ruby.
- Multiple Conditional Comparison Operators
 Sometimes you need to compare more than two things, here's how.
- String Manipulation
 Modifying a string is simple with these string manipulation tips.

Intermediate Ruby Concepts

- 15 Arrays
 What are arrays and how do we create and use them?
- 16 Multi-Dimensional Arrays

 An array of other arrays is multi-dimensional.
- 17 While Loops

 Using while loops in Ruby.
- 18 Until Loops

 Looping until a condition is met using until loops.
- For and Each Loops
 Understanding for and each loops, and when to use them.

20	FizzBuzz! Fizzbuzz! is a popular interview question/quiz. Let's build it!		
21	Hashes What is a hash, and how do you create and use it?		
22	Hash Manipulation Adding and removing items from a hash.		
23	Methods Understanding methods in Ruby.		
24	Methods Part 2 More on methods		
25	Random Numbers How to generate random numbers with Ruby.		
Advanced Ruby Concepts			
26	Classes What is a class and how do we use them?		
27	Classes Part 2 More on classes and how to use them.		
28	Instance Variables What is an instance variable and how is it different from a regular variable?		

29 Class Getters
What is a getter and

Class Setters

What is a getter and how do we use it?

How to create a class setter and why you should.

Let Ruby create your getters and setters automatically with attr_accessor.

Understanding Attr_accessor

22	Class Inheritance
32	Inheriting information from other classes.

- Opening a File

 How to open another file in your Ruby file.
- Open a File into an Array
 We'll learn to output the contents of a file into an array.
- Open File Modes

 There are several "modes" for opening files. Learn them all here.
- Write to a File

 We'll learn to write and append data to a file.
- Adding Third-party Functionality with Gems
 How to install and use a third-party gem in your program.

Fun with Ruby - Build a Math Flashcard Game!

- Building a Flashcard Game

 Let's use what we've learned to build a math flashcard game!
- Flashcard Addition Method How to handle the addition flashcards.
- Flashcard Subtraction, Multiplication, Division Methods
 How to handle subtraction, multiplication and division flashcards.
- Creating a Menu
 Allow the user to choose which type of flashcard game to play with a menu.

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