

Intro to Ruby Programming

GoSkills online course syllabus

Thursday, May 9, 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

1 Course Introduction

What to expect from this course.

7 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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