Intro to Ruby Programming

GoSkills online course syllabus

Saturday, July 19, 2025

Skill level
Beginner

Lessons
41

Accredited by
CPD

Pre-requisites
None

Video duration
2h 39m

Estimated study time
21h for all materials

Instructor
John Elder

Introduction

1   Course Introduction
What to expect from this course.

2   Install Sublime and Git Bash
How to install Sublime Text and Git Bash Terminal for your development environment.

3   Install Ruby
Installing Ruby is easy with RubyInstaller.org

4   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.

7   Floats and Integers
Understanding the difference between floats and integers and when to use each.

8 Comparison Operators

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).

11 Getting User Input with Gets

Allowing the user to interact with your program.

12 Conditional Statements

How to use if/else/elsif statements in Ruby.

13 Multiple Conditional Comparison Operators

Sometimes you need to compare more than two things, here's how.

14 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.

19 For and Each Loops

Understanding for and each loops, and when to use them.

Advanced Ruby Concepts

32 Class Inheritance
Inheriting information from other classes.

33 Opening a File
How to open another file in your Ruby file.

34 Open a File into an Array
We'll learn to output the contents of a file into an array.

35 Open File Modes
There are several "modes" for opening files. Learn them all here.

36 Write to a File
We'll learn to write and append data to a file.

37 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!

38 Building a Flashcard Game
Let's use what we've learned to build a math flashcard game!

39 Flashcard Addition Method
How to handle the addition flashcards.

40 Flashcard Subtraction, Multiplication, Division Methods
How to handle subtraction, multiplication and division flashcards.

41 Creating a Menu
Allow the user to choose which type of flashcard game to play with a menu.

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