CO goskills Intro to Ruby Programming

GoSkills online course syllabus Saturday, July 19, 2025

Skill level	Lessons
Beginner	41
Pre-requisites	Video duration
None	2h 39m
Instructor	

John Elder

Accredited by

Estimated study time 21h for all materials

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

4 Hello World and c9 Transition In this lesson we'll create our first Ruby program!

Ruby Programming Basics

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

Variables Storing information in variables is easy!

O 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.

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

Arrays What are arrays and how do we create and use them?

6 Multi-Dimensional Arrays An array of other arrays is multi-dimensional.

7 While Loops Using while loops in Ruby.

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. FizzBuzz! Fizzbuzz! is a popular interview question/quiz. Let's build it!

1 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.

4 Methods Part 2 More on methods...

Random NumbersHow to generate random numbers with Ruby.

Advanced Ruby Concepts

Classes What is a class and how do we use them?

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?

Class Getters What is a getter and how do we use it?

Class Setters How to create a class setter and why you should.

Understanding Attr_accessor Let Ruby create your getters and setters automatically with attr_accessor.

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.

Go to GoSkills.com