

Pragmatic Studio: Ruby Programming

Modules

Day 1: 1. Intro

Day 2: 2. Running Rb

3. Numbers & Strings

4. Variables & Objects

5. Self

6. Methods

7. Classes

8. Attributes

9. Arrays

10. Objects interacting

11. Separate source files

12. Unit testing

13. Conditionals & TDD

14. Modules

Day 3

15. Blocks

16. Symbols & Structs

17. Hashes

18. Custom Iterators

19. Input / Output

20. Inheritance

21. Mixins

22. Distribution

23. Wrapping up.

1.1. Intro to the Course

yellow highlight
for sections

+ Set the expectations

+ build a Rb app, from start to finish

+ Rb: OO programming language

+ Classes, objects, methods, etc

+ Understand what makes Rb different

+ discuss techniques

+ design principles

+ How is this course taught?

+ module w/ specific objective: video + exercise

+ Listen, watch, practice writing Rb code

1.2 Intro to the Game

+ Where is this Project heading?

+ text-based Game

unique player
types

A loaded die

Who
wins?

• Player: name, health

• Roll a die: the player's health changes.

• Find treasures to collect points

• Test using RSpec

green highlight
for concepts

• Game statistics

• Package as a gem for distribution

+ a Playlist of Movies

2. Running Ruby

- assign the first variable: greeting
- call the first method: upcase
- use the first class: Time
- write the first loop: 3. times

pink highlight
for terminology
jargon?

Daily Plan : Online Ruby Course in 3 Days

- the key to learning anything new
 - consistent, deliberate practice
 - having an actual plan to follow can help.

Next: add the first player to the game.

VS Code extensions + deps

1. Ruby — format, lint, etc

RuboCop

Reek

Debugger?

2. Solargraph — code completion, inline docs, etc.

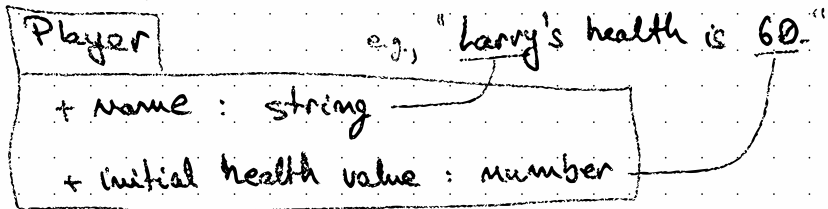
3. endwise  extend support for Elixir?

4. Code Runner

Dive Deeper: Programming Ruby (aka Pickaxe)
Chapter 18

3. Numbers & Strings

Product requirement: Every Game needs a Player



Alternatively, a Movie has a rank. And a title.

3.1 Numbers

• int: Fixnum

• float: Float



Rb casts to the more general type: float > int.

- (Domain) Movie rank = merits - demerits
- (Rb) All numbers are objects \Rightarrow they respond to messages.

(eg., .class)

3.2 Strings

• single quoted

• double quoted - more processing

• escape sequences: \

• string concatenation: +

! concat String w/ Fixnum... Object#to_s

• string interpolation: #{ <Rb expression> }

\hookrightarrow to_s automatically applied

Exercise

- single vs double-quoted strings
- string concatenation
- concat. strings & numbers
- escape sequences
- interpolate Rb expressions in strings.

Next

- objects
- methods

4. Variables & Objects