LESSON 1



Ruby

Welcome to Ruby

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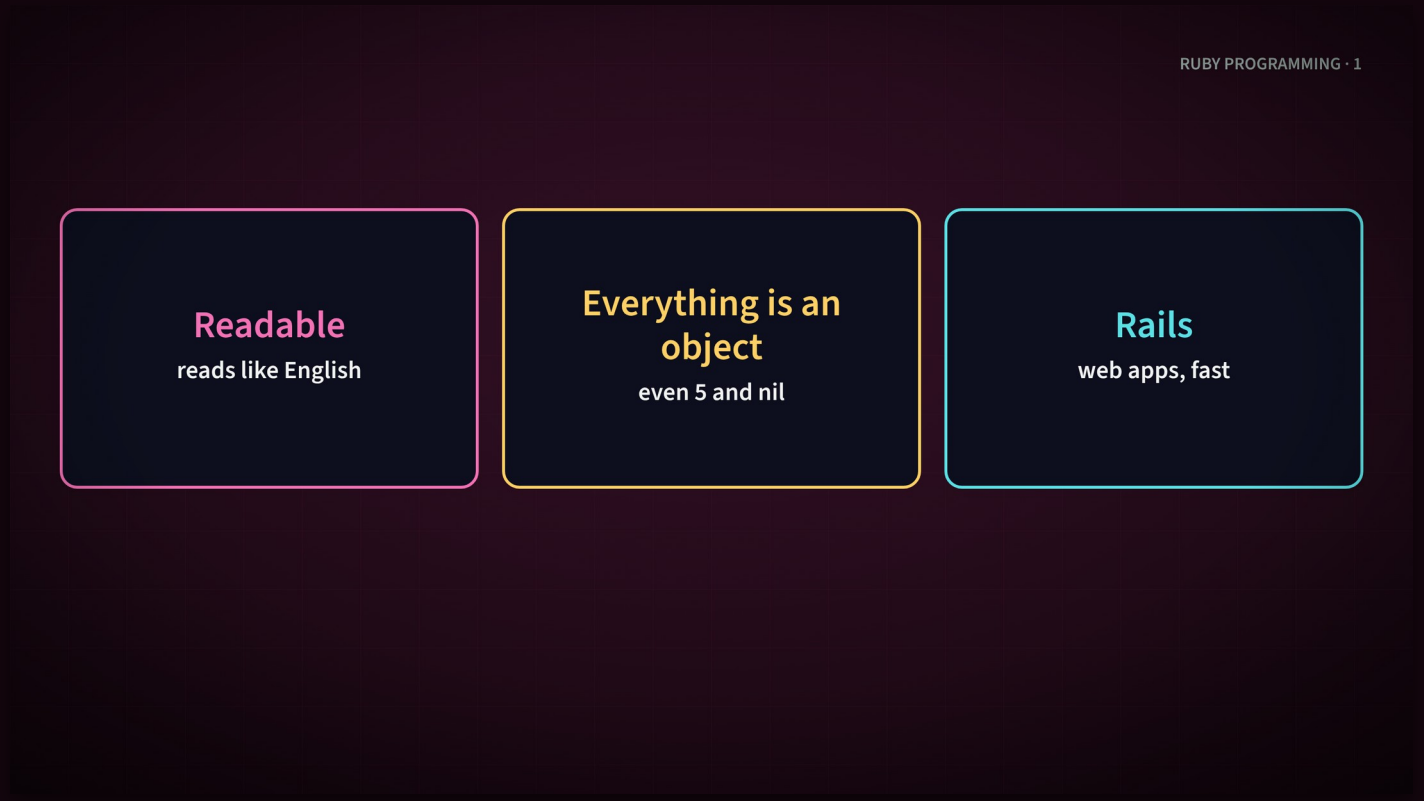
RUBY PROGRAMMING

LESSON 1

Welcome to Ruby

Ruby's philosophy, installing Ruby, irb, puts and your first script

Why Ruby?



- Readable — reads like English
- Everything is an object — even 5 and nil
- Rails — web apps, fast

01

Installing Ruby

terminal

```
$ ruby -v
ruby 3.3.5 (2024-09-03) [x86_64-linux]
$ irb
irb(main):001> 6 * 7
=> 42
irb(main):002> "kabul".capitalize
=> "Kabul"
```

- On macOS and Linux, install Ruby with a version manager like rbenv or asdf. On Windows, use …
- ruby dash v prints the version. irb opens interactive Ruby, where you can try code line by …

02

Hello, World

hello.rb

```ruby
puts "Salaam, World!"
print "no newline "
p "Kabul"          # => "Kabul" (with quotes)

# $ ruby hello.rb
```

- puts prints a value and a new line. No semicolons, no main method, no class needed. Save it …
- print prints without a new line, and p shows a value the way a programmer sees it, which is …

03

Everything Is an Object

objects.rb

```ruby
5.times { print "*" }        # *****
-7.abs                         # 7
"herat".upcase.reverse         # "TAREH"
nil.to_a                       # []
42.class                       # Integer
3.14.round                     # 3
```

- In Ruby, every value is an object with methods, even numbers and nil. Five dot times runs a …
- Parentheses on method calls are optional, so code often reads like a sentence.

04

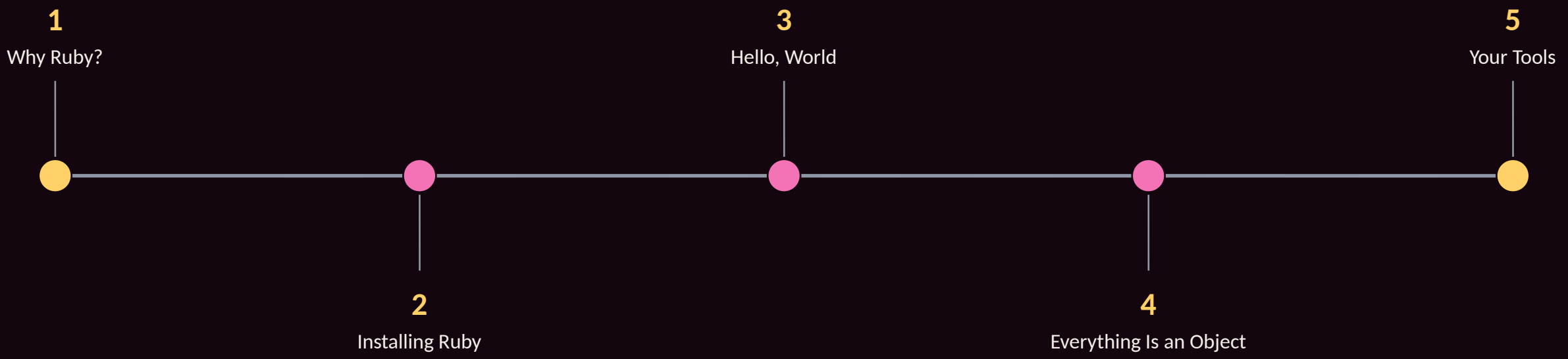
Your Tools

Tool	Does
`ruby file.rb`	run a script
`irb`	try code interactively
`ri String#upcase`	read the docs
`gem install`	install a library

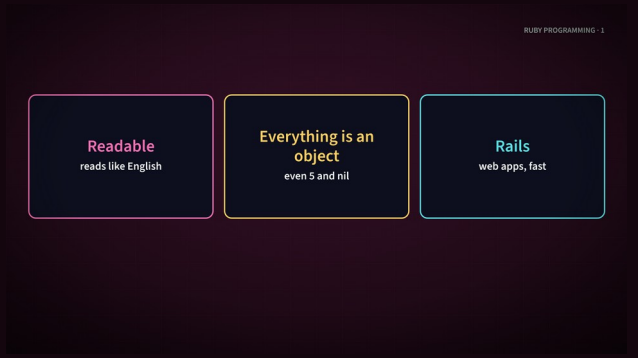
- Use VS Code with the Ruby LSP extension. ri shows documentation in the terminal, and …
- RubyGems, the gem command, installs libraries. We will use it in lesson ten.

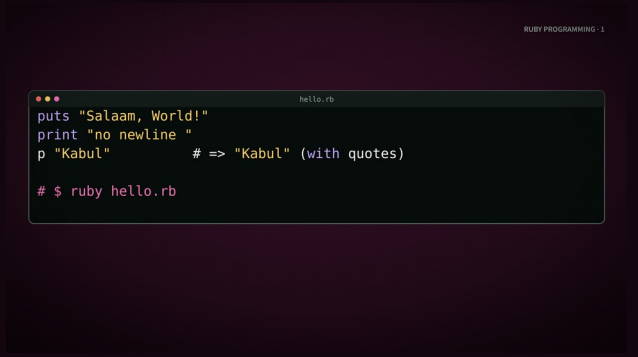
05

Lesson Map


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Why Ruby?
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Installing Ruby
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Hello, World
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Everything Is an Object
5
Your Tools

Sources and Further Reading





Thank you for watching

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