

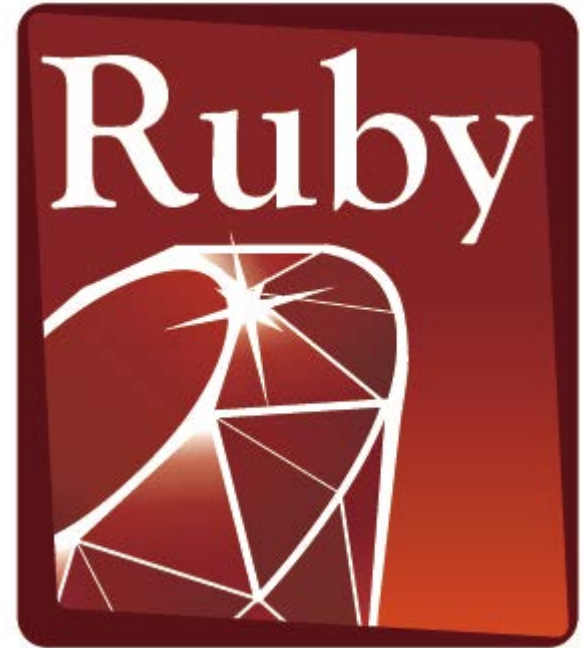
Ruby Fundamentals

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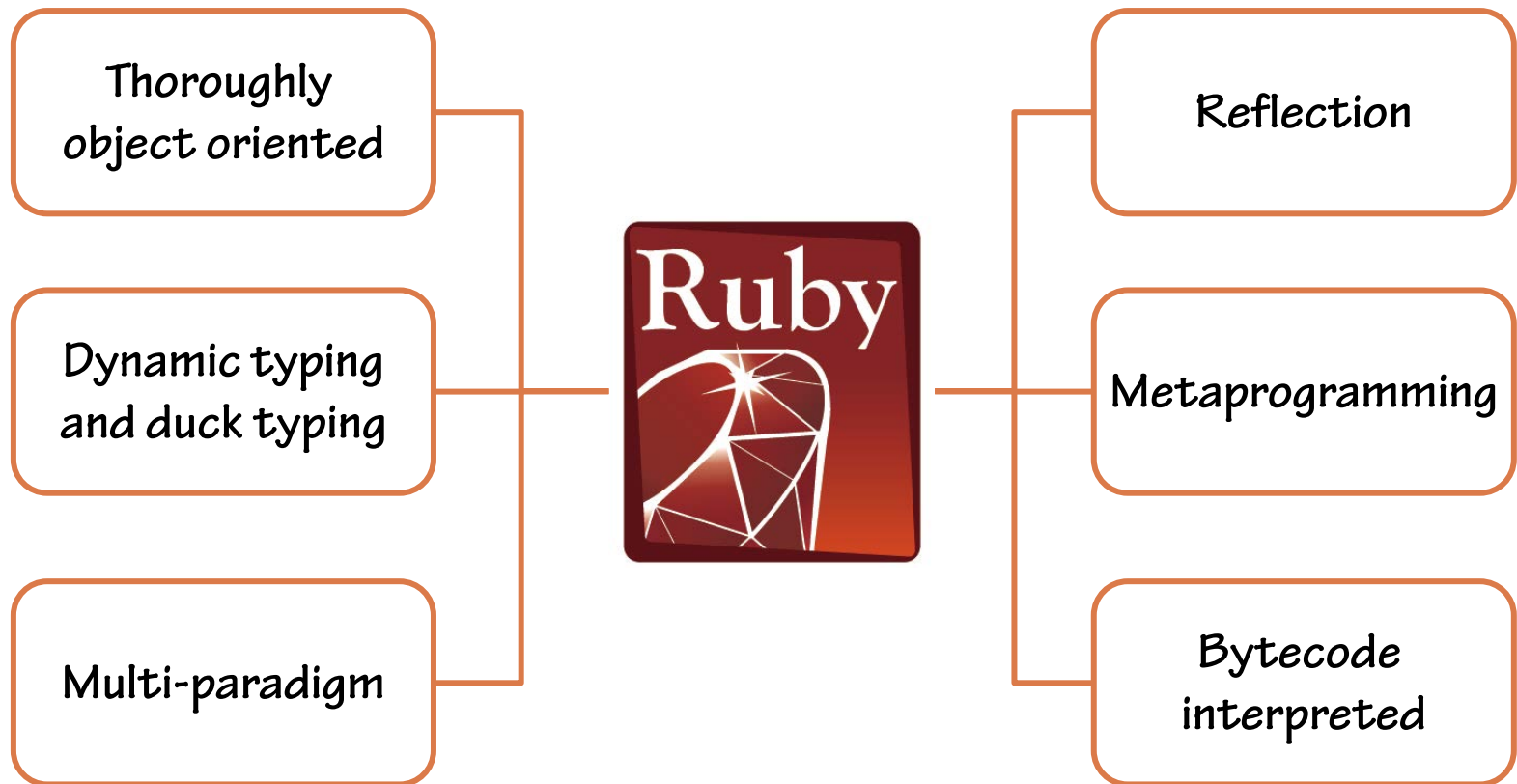
Overview

- Setting up
- IDE and tools
- Language features
- Standard libraries



10,000 Foot View of Ruby

- Focused on helping developers be productive and happy



Installing Ruby

- Windows: *rubyinstaller.org* -> Downloads -> get Ruby 2.0.0 or later

➤ `ruby -v`

- Linux: *rvm.io* -> install RVM & the latest version of Ruby
- Mac OS X: *rvm.io* -> install RVM & the latest version of Ruby

Interactive Ruby Shell (IRB)

- Great for experimentation and exploration

 `irb`

- Allows arbitrary Ruby code
- Use up arrow to go through history
- `_` stores the result of the last evaluated expression

IDE Options

- RubyMine -> *jetbrains.com/ruby*
- Aptana Studio -> *aptana.com*
- No IDE – just your favorite text editor
(Emacs, VIM, SciTE, Notepad++)

Some Ruby Operators

Comparison operators

> >= < <=
== !=

Mathematical operators

+ - * / %
** (exponentiation)

Logical operators

! && ||
not and or

Bitwise integer operators

& | ^ ~
<< >>

Assignment operators: $a += 10$ is shorthand for $a = a + 10$

+= -= *= /= %= **= &= |= ^= >>=
<<=

To Recap

`my_awesome_var`

~~`myAwesomeVar`~~

`my_awesome_var = 10`

`$global_flag`

`my_awesome_var = 10`

`def some_method`

`my_awesome_var = "abc"`

`# ...`

`my_awesome_var = nil`



no value

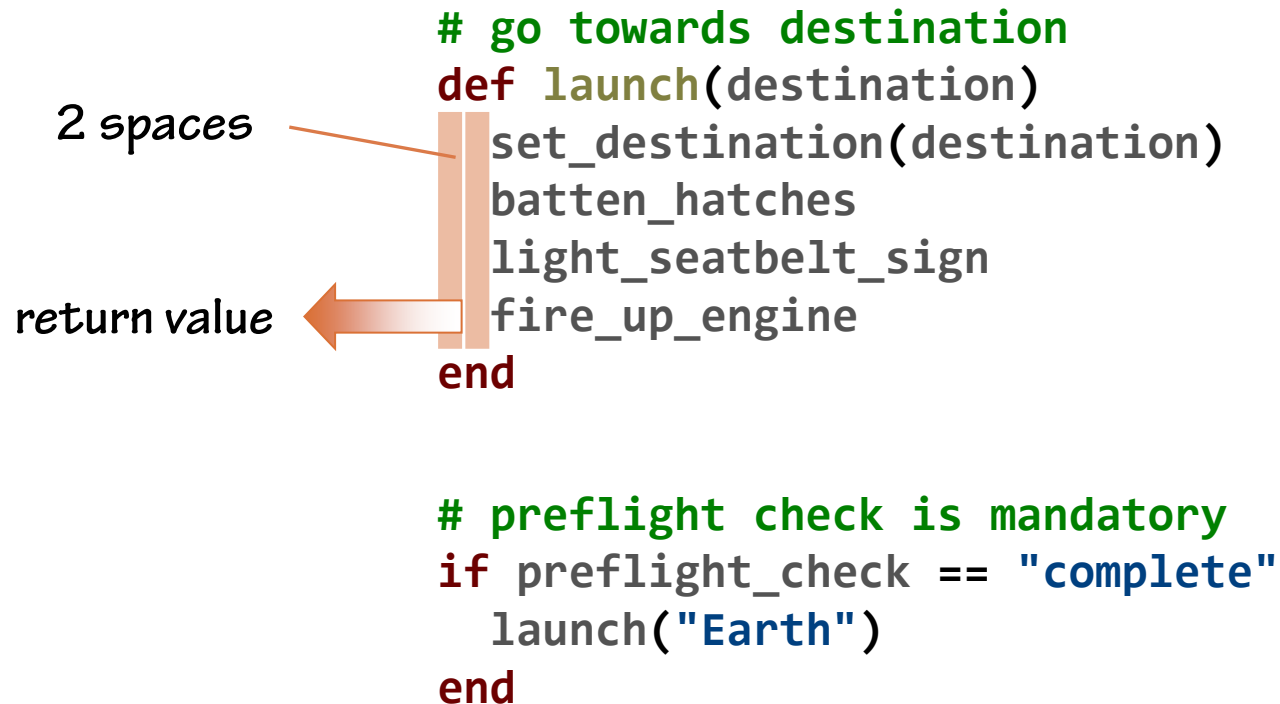
To Recap

```
# go towards destination
def launch(destination)
  set_destination(destination)
  batten_hatches
  light_seatbelt_sign
  fire_up_engine
end

# preflight check is mandatory
if preflight_check == "complete"
  launch("Earth")
end
```

2 spaces

return value



The diagram illustrates code indentation and a return value annotation. A vertical orange bar highlights the indentation of the `launch` function body. An arrow points from the text "2 spaces" to the start of this bar. Another arrow points from the text "return value" to the `end` keyword of the `launch` function.

To Recap

- Input and output can be done with *gets/puts/print*
- Call out to the system with backticks or *system* method

Summary

- Underlying principles of Ruby and its implementation
- Demo of IRB and RubyMine
- Basics of the Ruby language features