

Ruby Basics

Ruby History





- Version 1.0 came out in 1996 (Japan)
- September 2000 first English language book "Programming Ruby" printed (PickAxe)
- Latest version is up to 2.0
- Made famous by Rails around 2005

Ruby (20K feet view)

- Dynamic
- Object-oriented
 - Object-possessed, almost everything is an object
- Elegant and expressive
 - Terse at times, but very readable (Perl)
- Influenced by Perl, Smalltalk, Eiffel and Lisp

...Java...

```
public class Print3Times {
  public static void main(String[] args) {
    for(int i = 0; i < 3; i++) {
        System.out.println("Hello World!");
    }
}</pre>
```

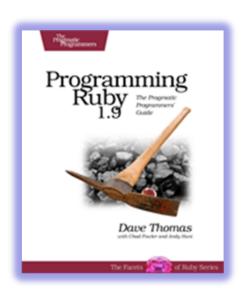
...Ruby...

3.times do puts "Hello World" end

Resources

http://www.ruby-doc.org/

Can also use "PickAxe" (Part IV)!!!



Ruby Basics

- 2 space indentation for each nested level is (strongly) encouraged
 - No tabs
- # is used for comments
 - Use comments in stingy moderation the code itself should tell the story instead

```
# this is a comment
puts 5 # so is this
```

Printing to console

- puts Standard Ruby method to print strings to console (as in put string)
 - Adds a new line after the printed string
 - Similar to System.out.println() in Java
 - Used for most of the examples
- p Prints out internal representation of an object
 - Debugger-style output

```
puts 5 # => 5
puts "something else" # => something else
```

Naming conventions

- Variables
 - Lowercase or snake case if multiple words
- Constants
 - Either ALL CAPS or FirstCap
- Classes (and Modules)
 - CamelCase

Lose the semicolons

- Leave semicolons off at the end of the line
- Can cram several statements in with a semicolon in between
 - Usually highly discouraged

```
a = 3 # semicolons not needed
a = 2; b = 3 # sometimes used
```

IRB – Interactive Ruby

- Console-based interactive Ruby interpreter
 - REPL (Read Evaluate Print Loop)
- Comes with a ruby installation
- Lets you try stuff out (quickly!)

C:\>irb
irb(main):001:0> "hello world"
=> "hello world"
irb(main):002:0> puts "Hello World"
Hello World
=> nil
irb(main):003:0>

Anything evaluates to something - no need to assign to a variable

puts returns nil

nil is an object!

- In many languages, nil (null) means no object
- In Ruby nil is an object that happens to represent nothing

```
puts nil.class # => NilClass
puts nil.nil? # => true
```

Running ruby

