Just Enough Ruby for Chef

A quick & dirty crash course



irb - the interactive ruby shell

- irb is the interactive ruby shell
- It is a REPL for Ruby
 - Read-Eval-Print-Loop
 - LISP, Python, Erlang, Clojure, etc.
- An interactive programming environment
- Super-handy for trying things out

3

Exercise: Start irb on your 'target' node

```
irb(main):001:0>
```

Variable assignment

```
irb(main):001:0> x = "hello"
=> "hello"
irb(main):002:0> puts x
hello
=> nil
```

```
irb(main):003:0> 1 + 2
=> 3
```

```
irb(main):004:0> 18 - 5
```

7

```
irb(main):005:0> 2 * 7
=> 14
```

-8

```
irb(main):006:0> 5 / 2
=> 2
```

9

```
irb(main):007:0> 5 / 2.0
```

```
irb(main):008:0> 5.class
=> Fixnum
irb(main):009:0> 5.0.class
=> Float
```

```
irb(main):010:0> 1 + (2 * 3)
```

```
irb(main):011:0> 'jungle'
=> "jungle"
```

```
irb(main):012:0> 'it\'s
alive'
=> "it's alive"
```

```
irb(main):013:0> "animal"
=> "animal"
```

```
irb(main):014:0> "\"so easy\""
=> "\"so easy\""
irb(main):015:0> puts "\"so
easy\""
"so easy"
=> nil
```

```
irb(main):016:0> x = "pretty"
=> "pretty"
irb(main):017:0> "#{x} nice"
=> "pretty nice"
irb(main):018:0> '#{x} nice'
= > "\/\#\{x\}  nice"
```

Truthiness

```
irb(main):019:0> true
=> true
irb(main):020:0> false
=> false
irb(main):021:0> nil
=> nil
irb(main):022:0> !!nil
=> false
irb(main):023:0> !!0
=> true
irb(main):024:0> !!x
=> true
```

Operators

```
irb(main):025:0> 1 == 1
=> true
irb(main):026:0> 1 == true
=> false
irb(main):027:0> 1 != true
=> true
irb(main):028:0> !!1 == true
=> true
```

Operators

```
irb(main):029:0> 2 < 1
=> false
irb(main):030:0> 2 > 1
=> true
irb(main):031:0> 4 >= 3
=> true
irb(main):032:0> 4 >= 4
=> true
irb(main):033:0> 4 <= 5
=> true
irb(main):034:0> 4 <= 3
=> false
```

Operators

```
irb(main):035:0> 5 <=> 5
=> 0
irb(main):036:0> 5 <=> 6
=> -1
irb(main):037:0> 5 <=> 4
```

```
irb(main):038:0> x = ["a", "b", "c"]
=> ["a", "b", "c"]
irb(main):039:0> x[0]
=> "a"
irb(main):040:0> x.first
=> "a"
irb(main):041:0> x.last
=> "c"
```

```
irb(main):042:0> x + ["d"]
=> ["a", "b", "c", "d"]
irb(main):043:0> x
=> ["a", "b", "c"]
irb(main):044:0> x = x + ["d"]
=> ["a", "b", "c", "d"]
irb(main):045:0> x
=> ["a", "b", "c", "d"]
```

```
irb(main):046:0> x << "e"
=> ["a", "b", "c", "d", "e"]
irb(main):047:0> x
=> ["a", "b", "c", "d", "e"]
```

```
irb(main):048:0> x.map { | i | "the
letter #{i}" }
=> ["the letter a", "the letter b",
"the letter c", "the letter d", "the
letter e"1
irb(main):049:0> x
=> ["a", "b", "c", "d", "e"]
```

```
irb(main):050:0> x.map! { i "the letter
#{i}" }
=> ["the letter a", "the letter b", "the
letter c", "the letter d", "the letter e"]
irb(main):051:0> x
=> ["the letter a", "the letter b", "the
letter c", "the letter d", "the letter e"]
```

```
irb(main):052:0> h = {
irb(main):053:1* "first name" =>
"Gary",
irb(main):054:1* "last name" =>
"Gygax"
irb(main):055:1> }
=> {"first name"=>"Gary",
"last name"=>"Gygax"}
```

```
irb(main):056:0> h.keys
=> ["first name", "last name"]
irb(main):057:0> h["first_name"]
=> "Gary"
irb(main):058:0> h["age"] = 33
=> 33
irb(main):059:0> h.keys
=> ["first name", "last name", "age"]
```

```
irb(main):060:0> h.values
=> ["Gary", "Gygax", 33]
```

```
irb(main):061:0> h.each { |k, v| puts
"#{k}: #{v}" }
first_name: Gary
last_name: Gygax
age: 33
=> {"first_name"=>"Gary",
"last_name"=>"Gygax", "age"=>33}
```

Regular Expressions

```
irb(main):062:0> x = "I want to believe"
=> "I want to believe"
irb(main):063:0> x =~ /I/
=> 0
irb(main):064:0> x =~ /lie/
=> 12
irb(main):065:0> x =~/smile/
=> nil
irb(main):066:0> x !~ /smile/
=> true
```

Regular Expressions

```
irb(main):067:0> x.sub(/t/, "T")
=> "I wanT to believe"
irb(main):068:0> puts x
I want to believe
=> nil
irb(main):069:0> x.gsub!(/t/, "T")
=> "I wanT To believe"
irb(main):070:0> puts x
I wanT To believe
=> nil
```

Conditionals

```
irb(main):071:0> x = "happy"
=> "happy"
irb(main):072:0> if x == "happy"
irb(main):073:1> puts "Sure am!"
irb(main):074:1> elsif x == "sad"
irb(main):075:1> puts "Boo!"
irb(main):076:1> else
irb(main):077:1* puts "Therapy?"
irb(main):078:1> end
Sure am!
=> nil
```

Conditionals

```
irb(main):079:0> case x
irb(main):080:1> when "happy"
irb(main):081:1> puts "Sure Am!"
irb(main):082:1> 1
irb(main):083:1> when "sad"
irb(main):085:1>    puts "Boo!"
irb(main):086:1> 2
irb(main):087:1> else
irb(main):088:1> puts "Therapy?"
irb(main):089:1>
irb(main):090:1> end
Sure Am!
=> 1
```

Method Definition

```
irb(main):091:0> def metal(str)
irb(main):092:1>        puts "!!#{str} is
metal!!"
irb(main):093:1> end
=> nil
irb(main):094:0> metal("ozzy")
!!ozzy is metal!!
=> nil
```

Classes

```
irb(main):095:0> class Person
irb(main):096:1>
                  attr_accessor :name, :is_metal
irb(main):097:1>
irb(main):098:1> def metal
irb(main):099:2>
                    if @is metal
                      puts "!!#{@name} is metal!!"
irb(main):100:3>
irb(main):101:3>
                    end
irb(main):102:2> end
irb(main):103:1> end
=> nil
```

Classes

```
irb(main):104:0> p = Person.new
=> #<Person:0x891ab4c>
irb(main):105:0> p.name = "Adam Jacob"
=> "Adam Jacob"
irb(main):106:0> p.is_metal = true
=> true
irb(main):107:0> p.metal
!!Adam Jacob is metal!!
=> nil
irb(main):108:0> p.is_metal = false
=> false
irb(main):109:0> p.metal
=> nil
```

Review Questions

- What is irb?
- What is true in ruby? What is false?
- How do you press for the truth?
- What does >= do?
- How do you define a method?
- What is a class?
- What is an object?
- The book you want: "Programming Ruby 1.9" http://programming-ruby-1-9