Learning Ruby - 12

Grabbag II - The Grabbag Strikes Back!

Testing Code in irb

```
load "~/ruby/pcap/Ethernet.rb"
packet = Ethernet.new( "77777733333399Some Data" )
packet.dest
packet.src
packet.type len
packet.payload
packet.inspect
packet.methods.sort
```

Less evenmoreless.rb

```
class Person
  attr_reader :name, :dob, :nationality
  attr_writer :name, :dob, :nationality
  ...
```

```
class Person
  attr_accessor :name, :dob, :nationality
```

Super Inheritance!

```
class RockSong < Song</pre>
  def initialize( name, artist, solo, length )
      super( name, artist ) # Initialise the parent.
      @solo = solo
      @length = length
  end # of initialize.
end # of RockSong.
```

Don't addemall, inject 'em!

```
def addemall( first, *rest )
    rest.each { |r| first = first + r }
    first
end # of addemall.

a = addemall( 1, 2, 3, 4, 5 )

b = [1, 2, 3, 4, 5].inject(0) { |sum, num| sum + num }
```

Named Arguments

```
def find person( params )
   name = params[:name]
   dob = params[:dob] | "unknown"
   # Do yer findin' ... then ...
   puts name + ', born: ' + dob + '.'
end # of find person.
find person( :name => 'John Doe', :dob => '24/03/1961' )
find person( :dob => '12/12/1912', :name => 'Jane Jones')
find person( :name => 'Harry Holt' )
```

++ and --

- The 'familiar' ++ and -- operators are NOT in Ruby
- When you want to add 1 to a, use a += 1
- When you want to take 1 from b, use b -= 1
- Boo! Hoo! There's no autoincrement and autodecrement in Ruby!

Things to Remember!

- Variables hold references to objects, not the objects themselves!
- Variables start with a lowercase letter, Classes and Constants start with an UPPERCASE letter
- Writing code that depends on the existence of the default variable (\$_) is frowned upon
- Qualifying a loop or condition (to quote The PickAxe) is a path that "leads to the gates of madness"

The Gates of Madness!!!

```
i = 10
while i < 15
 puts i
  i += 1
end unless i == 11
name = 'Paul'
if name == "Paul"
  puts name
end unless name == "Paul"
```

More ... Ruby So Far

 Be really sure to ignore the code on that last slide!!!!!!!