

```

#-----
#But First
#-----
echo "puts 'Hello, World!'" | ruby
puts 'Hello, World!'
print "Hello, World!"
ri String#length

#-----
#Completely OO
#-----
2.methods
-43.abs
1.414.class
'Foobar'.length

#-----
#Duck Typing
#-----
a = 2
print a*3
a = 'Wow! '
print a*3

#-----
#Numbers - Fixnum and Bignum
#-----
Example Needed
a = 2
a.class
a =
235985098345094859834985739858934753987534896893743294239857289429387

#-----
#Strings - Single and Double Quote
#-----
print '\n'
puts "\n"
who = "Friday the 13th of April"
who.split
who[0].chr
who[2, 3]
who[-2, 3]
who.reverse!
who.upcase
who.downcase
who.length
who.chomp
who.gsub('the', 'The')
#who<<" 2007" # Something wrong with my VIm highlighting, had to
comment this

#-----
#Arrays
#-----
arr = ['fee', 'fi', 'fo', 'fum', 2.0]

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arr[0]
arr[-2,1]
arr<<[1,2,3]
arr[-1][0]
arr = %w{fee fi fo fum}
arr.join(', ')

#-----
#Hashes
#-----
music = { 'pop' => 23, 'rock' => 53, 'country' => 12}
music['pop']
music.delete('country')

#-----
#Ranges
#-----
(1..3)
(1...4)
print *(1..3)

#-----
#Expressions and Operators
#-----
3<=>1
'qwerty'<=>'qwerty'
a = 3
b = if a==3 then 2 else 1 end

#-----
#for, if and when
#-----
for i in (1..3)
  puts i
end
a = 1
a *= 2 while a<100
a = 3 if a > 0 unless a < 100

arr = ['fee', 'fi', 'fo', 'fum', 2.0]
for i in arr
  puts i
end

#-----
#Case expressions
#-----
case lang
when /j*/
  puts 'Coffee!'
when 'python'
  puts 'Hiss!'
when 'Ruby'
  puts 'konnichiwa!'
end

```

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end

year = 1900
leap = case
  when year%400==0: true
  when year%100==0: false
  else year%4==0
  end

#-----
# Closures
#-----
5.times{|x| puts x}
File.read('file_name').each do |x| # Every Enumerable has an each
method
  puts x
end

arr = ['1', '2', '3', '4']
shorlist = arr.map{|x| x.to_i}.select{|x| x>2} # Selects only items
greater than 2
2.upto(100){|x| puts x if x%2==0} # There is also a downto
memo=0
(1..10).inject{|memo, obj| memo += obj}

#-----
#So, you want your own iterators eh?
#-----
def n_factorial_times(n, &block)
  fact = 1
  (1..n).inject(1) {|fact, i| fact*=i}
  for i in 0..fact do
    yield i
  end
end

n_factorial_times(6) {|x| puts x}

class Array
  def each_even
    self.each{|x| yield(x) if x%2==0}
  end
end

[1,2,3,4,5,6,7].each_even{|n| puts n} # 2, 4, 6

#-----
#Regular Expressions
#-----
while line = gets
  puts line if line =~ /^start.* / .. line =~ /^stop.* /
end

'kjashu2453kdfj' =~ /\d+/
'kjashu2453kdfj' =~ /\booga/
'kjashu2453kdfj' =~ /booga/
'kjashu2453kdfj'.gsub('k', 'K')
a ='kjashu2453kdfj'.gsub('k', 'K')

```

```
a.gsub('j', 'J')
a.gsub!('j', 'J')
a = 'Abracadabra'.gsub(/[aeiou]/){|x| x.upcase}
```

```
#-----
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```
#Classes in Rubyland
```

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#-----
```

```
class Foo
  def greet(who)
    puts "Hello #{who}"
  end
end
```

```
#-----
```

```
# Accessors
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#-----
```

```
class User
  def initialize(name)
    @name = name
  end
  def name=(name)
    @name = name
  end
end
```

```
class User2
  attr_accessor :name
  #also available attr_reader and attr_writer
  def initialize(name)
    @name = name
  end
end
```

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#-----
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```
# Modules and Mixins
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#-----
```

```
module Lol
  def i_can_has_cheezburger?
    if self.class.name == 'LolCat'
      true
    else false
    end
  end
end
```

```
class LolCat
  include Lol
end
```

```
class Bar
  include Lol
end
```

```
a, b = LolCat.new, Bar.new
```

a.i_can_has_cheezburger?
b.i_can_has_cheezburger?

```
class Player
  include Comparable
  attr_reader :score
  def initialize(score)
    @score = score
  end
  def <=> (other)
    self.score <=> other.score
  end
end

#-----
# Exception Handling
#-----
def read_file(file_name)
  begin
    File.read(file_name)
  rescue
    puts "Error Recovery"
  end
end

#-----
#Closures
#File reading
#regex in while loops
#retry, continue and redo
#Backtick operator
# #{}
#Map, reduce, other functional stuff
#Only nil and false are false
#Global $ vars
```