

# Ruby实验室：二叉树



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今天看到《Building a Binary Tree with Enumerable》，正好我与作者的看法相同，module和block是Ruby的特点。

```
class Node
  include Enumerable

  attr_accessor :data, :left, :right
  def initialize(data)
    @data = data
  end

  def each(&block)
    left.each(&block) if left
    block.call(self)
    right.each(&block) if right
  end

  def <=>(other_node)
    data <=> other_node.data
  end
end

root = Node.new(3)
root.left = Node.new(2)
root.right = Node.new(1)
root.each {|x| puts x.data }

# just a few of the various operations Enumerable provides
puts "SUM"
puts root.inject(0) { |memo, val| memo += val.data }
puts "MAX"
puts root.max.data
puts "SORT"
puts root.sort.map(&:data)
```