

Ruby

Week 4

HomeWork Review

- Calculator
- Collections
- Inject

Module Demo

- `named_thing.rb`
- Vampire's have names
- Human's have names

Inheritance

- Parent-Child
- SubTypes



Inheritance Demo

- monster.rb
- Monster
 - Vampire (vampire.rb)
 - Zombie
 - Werewolf

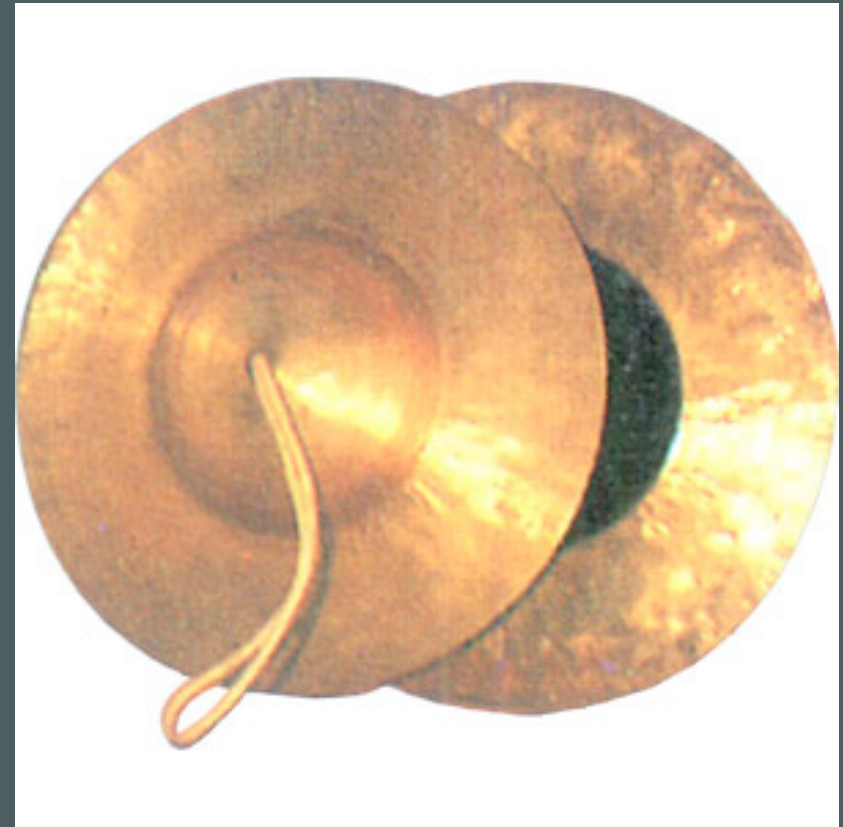
Numbers

- FixNum
- 1 is always 1! (unlike strings)
- Floats (BigDecimal)
- 4.2
- 3.141516



Symbols

- `:symbols_are_fun`
- A static name
- Stored like numbers, named like strings!



Ranges

- `1..5`
- `1...5`
- `a..z`
- `OddNumber.new(1)..OddNumber.new(5)`



Range Demo

- `odd_number.rb`

Blocks

- A method with no name!
- Dynamic method definition

Block Syntax

- `{ }`
- `do`
 - `<code>`
- `end`

Blocks: Calling and Checking

- `yield`
- `call`
- `block_given?`

Blocks with Parameters

- `yield(x)`
- `call(x)`
- `{ |x| }`
- `do |x|`
 - `<code>`
- `end`

Blocks Demo

- Time My Code!
- `timer_spec.rb`

Blocks Exercise

- Do My Work!
- `worker_spec.rb`

HomeWork

- questions.txt
- something_spec.rb (TBD)

Control

- Controlling the flow of your application
- BEWARE: if-else-death, Switch-Statement-Smell (<http://c2.com/cgi/wiki?SwitchStatementsSmell>)

Conditionals

- if, else
- unless, else
- and && (BEWARE: precedence!!)
- or || (BEWARE: precedence!!)
- ||=
- conditional ? then : else

Loop-de-Loop!

- while
- until
- times