

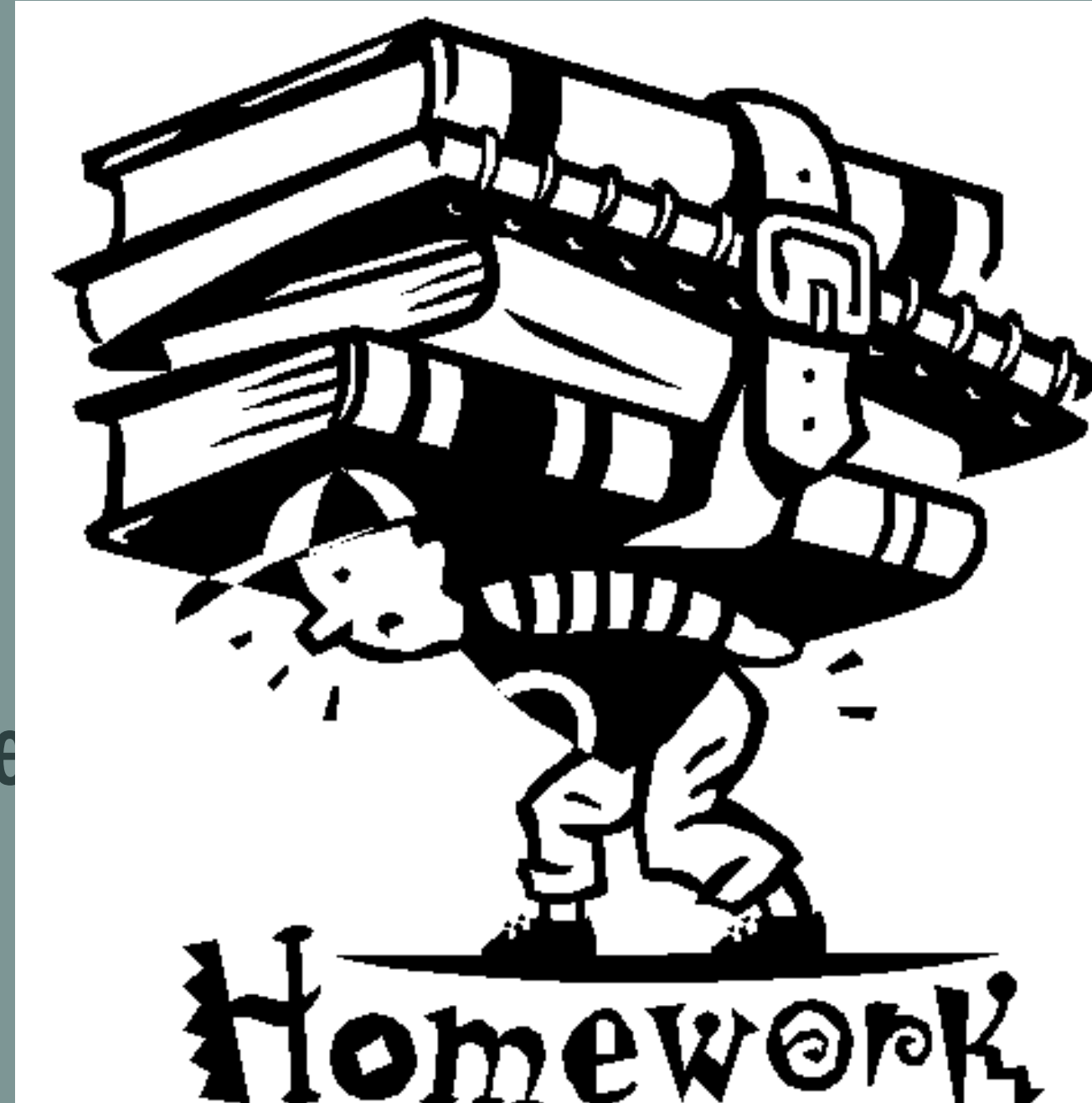
Ruby

Week 3



HOmeWOrk REview

- Walk Through Simon Says
- Questions Should be Answered
- Git / Github Review Sheet



What is a Book

- All Books have....??

Defining New Classes

- Initialize
- attributes / readers and writers
- Scope
 - Instance variables
 - Instance methods

Collections



Array

- Ordered List
- Referenced by Order(index)



Hash

- Key, Value Store
- Referenced by Name(key)

star selections



2005 Lincourt Santa Barbara County (\$25)
Hints of allspice and sweet oak inform the bright red cherry flavors of this graceful red, made with fruit from vineyards in California's Santa Rita Hills.



2005 Raptor Ridge Willamette Valley (\$30)
Most of the grapes in this elegant, multi-vineyard blend come from the Stony Mountain Vineyard, perched on a hillside in Oregon's Yamhill County.



2004 Woodenhead Russian River Valley (\$36)
Co-owner Nikolai Stez (former assistant winemaker at cult producer Williams Selyem) produces stunning Pinot Noirs, like this hauntingly floral bottling.



2005 Scott Paul La Paulée (\$40)
Scott Paul Wright leads two lives, importing high-quality Burgundies and making his own eponymous wines, like this lightly herbal, raspberry-rich cuvée.

Array and Hash Exercise

- `numbers = [5,4,7,1,3,2,6]`
- `numbers[0]`
- `numbers.size`
- `more_numbers = {"one" => 1, "two" => 2, 3 => "three"}`
- `more_numbers["one"]`

Modules

- Sharing Behavior
- Namespacing
- DRY Code
- Composition



Enumerable

- Module for Collection Specific Action
- Search
- Sort
- Iterate (Enumerate)



Demo Enumerable

- `load 'monsters.rb'`
- `$monsters`

- How many monsters are nocturnal? `$monsters.count`
`$monsters.count{ |m| m[:nocturnal] }`

- What are the names of the monsters that are nocturnal?
`$monsters.select{ |m| m[:nocturnal] }.map{ |map| m[:name] }`

- How many legs do all our monsters have?
`$monsters.map{ |m| m[:legs] }.inject(:+)`

- What are the 2 most common dangers and vulnerabilities

Module Exercise

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

Inheritance

- Parent-Child
- SubTypes



Inheritance Exercise

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

Numbers

- FixNum

- 1 is always 1! (unlike strings)

- Floats (BigDecimal)

- 4.2

- 3.141516



Ranges

- 1..5
- 1...5
- a..z



HomeWork

- Reading in questions.txt
- calculator_spec.rb

