BEWD 13

LESSON 7

OBJECT ORIENTED PROGRAMMING

- CLASS - THE BASICS CONTINUED

- METHODS - INSTANCE, CLASS, PRIVATE METHODS

- VARIABLES - INSTANCE, LOCAL REVIEWED

GIT TIME

GIT TIME

YOU SHOULD KNOW HOW TO

- CREATE A REMOTE BRANCH

- PULL FROM THE UPSTREAM REPO

- PUSH THE CODE TO YOUR FORKED
  MASTER BRANCH

CLASS

CLASS : LEARNING GOAL REVIEW

1 - DEFINE A CLASS

2 - SET ATTRIBUTES

3 - ADD READ & WRITE CAPABILITIES

4 - CONSTRUCTOR CREATION

5 - VOCABULARY

    - VARIABLE TYPES

    - METHOD TYPES

5 - INHERITANCE

ANATOMY OF A CLASS

STATE

BEHAVIOR

IDENTITY

CODE ALONG

```ruby
#Classes have state and behavior
#State & Object Factory: factory that creates and instiantes robots
#Behavior: Collection of class methods, instance methods, instance variable,
          #local variables, constants etc.,


require 'pry'
require 'pry-byebug'


class Robot


#creates getter && setter methods for each attribute
attr_accessor :name, :age, :home_town


#instance_factory to support creating a new person using Person.new
  def initialize(name, age, home_town)
    @name = name
    @age = age
    @home = home
  end


  def flight_skills
    "I am #{name}. I have flight skills"
  end
end
```

INHERITANCE 101

```ruby
#Classes have state and behavior
#State & Object Factory: factory that creates and instiantes robots
#Behavior: Collection of class methods, instance methods, instance variable,
          #local variables, constants etc.,

require 'pry'
require 'pry-byebug'
require_relative 'robot'

class Android < Robot

#creates getter && setter methods for each attribute
attr_accessor :name, :age, :home_town

#instance_factory to support creating a new person using Person.new
  def initialize(name, age, home_town)
    @name = name
    @age = age
    @home = home
  end

  def writing_skills
    "I am #{name}. I have writing skills"
  end
end
```

CODE REVIEW

\<thermostat.rb\>

THERMOSTAT!

CREATE A THERMOSTAT USING..

- METHODS
- VARIABLES
- ARRAYS
- CONDITIONALS
- ENUMERATION

CODE REVIEW

CODE LAB

< rise_of_robots.rb >

RISE OF THE ROBOTS!

CREATE A ROBOT FACTORY USING..

- METHODS
- VARIABLES
- ARRAYS
- CONDITIONALS
- ENUMERATION

KEYS TO SUCCESS

- ONE BRICK AT TIME
- DEBUG WITH PRY EVERY TIME
- CODE PROLIFICALLY