

require 'yaml'

class EmacsTrainer

def initialize

```
@key_strokes = YAML::load_file(File.expand_path(File.join(File.dirname(__FILE__), 'keystrokes.yml')))  
#~ @key_strokes = {  
#~ :recover_a_file_lost_by_a_system_crash =>  
#~ ['alt x', 'r', 'e', 'c', 'o', 'v', 'e', 'r', '-', 'f', 'i', 'l', 'e']  
#~ }  
@expected_key_stroke = :open_file  
@key_pressed = ""  
@key_stroke_index = 0  
@count = 0  
@actual_key_stroke = ""  
@score = 0  
@tests_taken = 0
```

end

#

def decode_key(key)

```
if key.class == Symbol  
  @actual_key_stroke = key.to_s.gsub('_', '')  
  @actual_key_stroke.gsub!('alt', 'Alt')  
else  
  if key.class == Symbol  
    @actual_key_stroke = key.to_s  
  else  
    case key[0]  
    when 1 .. 26  
      @actual_key_stroke = "Ctrl #{('a'[0] + key[0] - 1).chr}"  
    when 32 .. 126  
      @actual_key_stroke = "#{(key[0]).chr}"  
    else  
      @actual_key_stroke = key[0]  
    end  
  end  
end  
@actual_key_stroke
```

end

#

def key_correct?

```
@actual_key_stroke.to_s == @key_strokes[@expected_key_stroke][@count].to_s
```

end

#

def sequence_complete?

```
@count + 1 == @key_strokes[@expected_key_stroke].size
```

end

#

def next_key

```
@count += 1
```

```
end  
  
# # # #  
  
def repeat_key  
    @count = 0  
end  
  
# # # #  
  
def next_sequence  
    @key_stroke_index += 1  
    @key_stroke_index = 0 if (@key_stroke_index >= @key-strokes.size)  
    @expected_key_stroke = @key-strokes.keys[@key_stroke_index]  
    @count = 0  
end  
  
# # # #  
  
def key_stroke  
    @key-strokes[@expected_key_stroke]  
end  
  
# # # #  
  
def next_guess  
    "#{@expected_key_stroke.to_s}"  
end  
  
# # # #  
  
def correct_guess_message  
    "#{@expected_key_stroke.to_s}"  
end  
  
def incorrect_guess_message  
    "#{@expected_key_stroke.to_s} is wrong! Try "  
end  
  
def display_correct_keystroke  
    "#{key_stroke.join(' - ')}"  
end  
  
def score  
    @tests_taken += 1  
    "#{@score}-#{@tests_taken}}\n"  
end  
  
def increment_score  
    @score += 1  
end  
end
```

#

Shoes.app(:title => "Emacs Trainer" ,

```

        :weight => 'bold' ,
        :width => 760,
        :height => 572,
        :resizable => false
    ) do
background "emacs.jpg"
emacs = EmacsTrainer.new
emacs.next_sequence
para emacs.next_guess , :weight => 'bold' , :stroke => slateblue, :left => 5, :top => 0
keypress do |k|

    #~ para "\n\n k.to_s is #{k.to_s}"
    #~ para "\n\n k.class is #{k.class}"
    #~ para "\n\n k[0] is #{k[0]}"
    emacs.decode_key k
    #~ para "\n\n decoded key is #{emacs.decode_key k}\n\n"
    if emacs.key_correct?
        #~ para "\nsequence_complete? = #{emacs.sequence_complete?}\n"
        if emacs.sequence_complete?
            para emacs.correct_guess_message,:weight => 'bold' , :stroke => green, :left => 5
            para emacs.display_correct_keystroke,:weight => 'bold' , :stroke => green
            para " is Correct!";:weight => 'bold' , :stroke => green
            emacs.increment_score
            para emacs.score,:weight => 'bold' , :left => 700
            emacs.next_sequence
            para emacs.next_guess , :weight => 'bold' , :stroke => slateblue, :left => 5
        else
            emacs.next_key
        end
    else
        para emacs.incorrect_guess_message,:weight => 'bold' , :stroke => red, :left => 5
        para emacs.display_correct_keystroke,:weight => 'bold' , :stroke => black
        para emacs.score,:weight => 'bold' , :left => 700
        emacs.repeat_key
        para emacs.next_guess , :weight => 'bold' , :stroke => slateblue, :left => 5
    end
    slot.scroll_top = slot.scroll_max
end
end
end

```