

Ruby 101

Intermediate Ruby: Strings and Escapes

Strings and Escapes:

If double quoted, we can format the output.

ex.

"This string will print\n on two lines"



```
Escape sequences / codes:
    Start with \
    followed by a character
Common Escape sequences:
    \n : new line
    \t : tab
   \b : backspace
```

More at http://en.wikipedia.org/wiki/ASCII#ASCII_control_code_chart

CF "Escape Code" column

ANSI Terminal Escapes:

Only work on ANSI standard terminals: But they are fairly standard.

```
Begin with the CSI (Control Sequence Introducer): \e[
```

Common Codes:

```
\e[r;cH -> Set cursor to row r and column c \e[2J -> Clear screen
```

More Codes http://en.wikipedia.org/wiki/ANSI_escape_code#CSI_codes



\e[

More ANSI Terminal Escapes:

A -> Move Cursor Up # of lines

B -> Move Cursor Down # of lines

C -> Move Cursor Right # of lines

D -> Move Cursor Left # of lines

E -> Move Cursor Down # of lines to beginning

F -> Move Cursor Up # of lines to beginning

G -> Move Cursor to Column #

More Codes

http://en.wikipedia.org/wiki/ANSI_escape_code#CSI_codes

Expanding our View Code:

class BasicView

```
def clear_display print "\e[2J" end
```

```
def set_cursor row = 1, column = 1
    print "\e[#{row};#{column}H"
end
```

end



What if we wanted to center our output? We need to know:

Terminal size

Length of string to display

\$stdin - Standard Input IO Stream \$stdout - Standard Ouput IO Stream

io/console:

adds methods for manipulating console i/o streams.

require 'io/console'

\$stdin.winsize => returns array of [rows, columns]



```
class BasicView
...
    def center text
        columns = $stdin.winsize[1]
        text_length = text.length
        column_location = columns / 2 - text_length / 2
        "\e[#{column_location}G#{text}"
        end
end
```



What about color?

\e[SGR_Codes m

Codes 30-37 Set basic text colors Codes 40-47 Set basic background colors

ex:

\e[31;40m -> Sets black background with red text \e[0m -> Resets SGR codes

More SGR_Codes can be found here: http://en.wikipedia.org/wiki/ANSI_escape_code#graphics
n.b. Not all code are well supported.

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Putting it all together:

controller.rb

```
def initialize
    @log_file = LogFile.new
    @current_view = FileDialogView.new
    @current_view.clear_display
         @current_view.set_cursor
end
```

