

Ruby 101

Intermediate Ruby: User Input

When 'gets' isn't enough.

IO has several ways to read input from files or the \$stdin stream.

- .getc -> retrieves the next character and waits for a new one
- .getbyte -> retrieves the next byte and waits for a new one
 - -> getc and getbyte return nil at the end of a file (eof), they wait for user input if called on \$stdin
- .read -> read until eof, with blocking
- .read_nonblock max_length -> read max_length
 without blocking
- .readchar -> read single char with blocking
 until eof, raises error and blocks
- .readbyte -> as above but with bytes
- .readline -> like 'gets' but reaises an error
 at eof



But these require a carriage return if used with \$stdin

io/console includes .getch returns the first char, blocks when no chars are available



end

end

Let's work this into our program loop: controller.rb def run while user input = \$stdin.getch do #process the input begin while next chars = \$stdin.read nonblock(10) do user input = "#{user input}#{next chars}" end rescue end if @current view.quittable? && user input == 'q' break else parse input user input end

Instead in the initializer method:

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



end

Quit with "q"?

User types 'q':
a) They are typing the letter into an input fieldb) They intend to quit

How to tell this apart?
.quittable? method in the current_view
true -> 'q' quits
false -> 'q' is just a letter in a field

class FileDialogView
def quittable?
true
end



Rough Sketch of Input parsing:

```
def parse input user input
   case user input
      when "\n"
        #change controller likely
        #check the View's current interaction
        #index to see what's next
      when "\e[A"
        #up button ... update the view with an
        #up action
      when "\e[B"
        #down
```

Rough Sketch of Input parsing cont'd:

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