Introduction How we use it Other Language Bindings Outro

All the cool kids are using ncurses

May 21, 2010

Prerequisites

C or C++

Overview of topics

- ► A bit of History
- ▶ Who uses it today, and why?
- How to use it

Termcap, Terminfo

- ▶ What is a terminal?
- Curses/Termcap
- ► PCurses/Terminfo/vi
- ▶ NCurses, the best of all possible worlds

NCurses is @#%!\$ awesome!

- ▶ Use programs over ssh
- Why are you using system("clear")?
- gui-like controls on the command line
- ▶ irssi, screen, vim, cmus, vim, weechat, vim

Buffers

- ▶ Initialize the screen
- ► Move to a location
- Print or clear
- Refresh
- Clean up the screen, exit

Initialization

- ▶ initscr() and stdscr
- keypad()
- getmaxyx()
- curs_set(0)

Moving Around

- move()
- addch() vs mvaddch() vs wmvaddch()

Moving Around

- mvaddch()
- mvaddstr()
- mvprintw()
- clear()
- cleartoeol()
- cleartobot()
- refresh()

Time to exit

- ► refresh before exit(0)
- endwin() before exit(0)

Common Gotchas

- ▶ y x reversal
- ESCDELAY and notimeout
- Don't forget to refresh()!
- ▶ Don't forget to curs_set(1)!
- No, really. Don't forget to endwin()

Tabs

- Ada95 binding
- Java binding (CHARVA)
- Common Lisp binding
- Eiffel binding
- ► JavaScript binding
- Kylix binding (LinCRT)
- OCaml binding
- Perl binding
- PHP binding
- Python binding
- Ruby binding
- Haskell binding
- ► C# binding
- ► Tcl/Tk Extensions
- Go binding



Additional Resources

- ► The Programmer's Guide to NCurses
- Programming with curses (O'Reilly)
- http://www.gnu.org/software/ncurses/ncurses.html