

\$ psh progress
week-4

Psh aims to make a POSIX like compliant shell capable of running all commands currently available with zsh and bash, while still attempting to make it as POSIX compliant as possible.

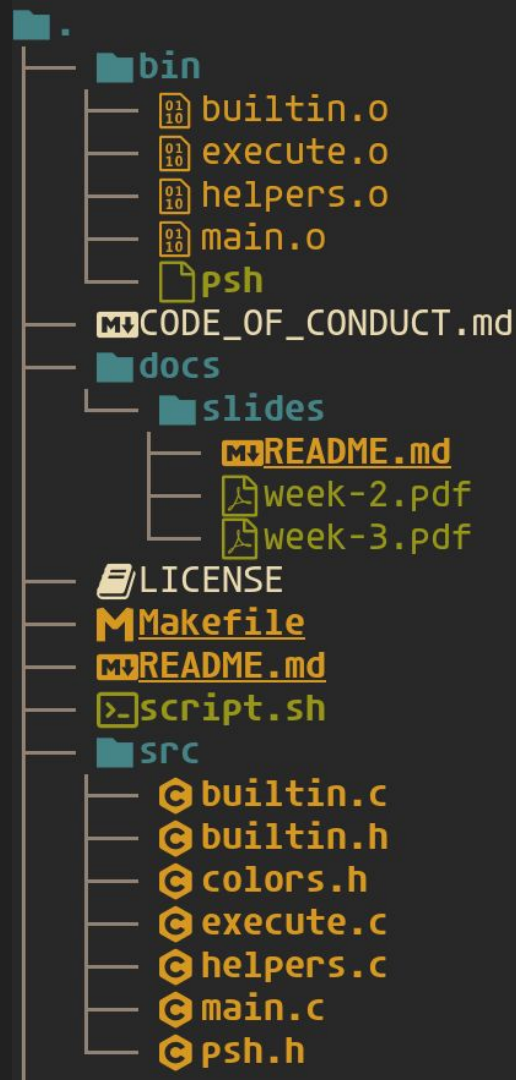
We also aim to add a few accessibility features such as auto complete, signal interruptions, leftover commands and recording.

By the end of week 5 our aim is to achieve all above.

🚩 Week -4 milestones

- Multiple sessions
- Arrow keys
- Colors
- Syntax highlighting
- Alias
- Man Page feature

🐛 Bug Bashing





Alayna:

- Unique session IDs get generated for each session.
- Temporary session history file gets created for every session now.
- Multiple sessions can be run at the same time.
- Session ID is an environment variable that can be echoed.



KK and Adi:

We used ``termios`` to enable raw mode, and disable canonical mode allowing immediate character-by-character input processing.

- Up arrow: Immediately displays the previous command.
- Right arrow: Moves the cursor to the right.
- Left arrow: Moves the cursor to the left.



KK, Alayna and Adi:

- Script mode now handles variable assignment properly. (bug fixed)
- **Colors:**
 - ANSI color codes allow you to add vibrant colors and styles to your terminal.
 - The PS1 shell variable defines the text printed before the blinking cursor in our terminal.
 - An config file named pshrc stores the PS1 variable that can be changed to change the colors on your terminal.
- **Syntax highlighting:**
 - In-complete commands appear yellow
 - Complete commands appear green



Sumithra:

Fixed Alias Bugs

- Alias runs without exiting from the loop or seg faults
- Commands with arguments parsed properly

Bug: seg fault when an alias name is called with other arguments



Sidd:

- **man page if cmds have typos / missing arguments**
 - Suggests the user to open the man page if a typo or no arguments are provided for an external cmd execution.
 - Bugs encountered: Isn't able to distinguish between non-existent commands and external commands.

DEMO

Target for next weeks

- Leftover commands
- Handling signals/interrupts
- Auto complete
- Recording
- bug fixes !



feedback?