

prosh

The Productivity Shell

Petr Sabovčik & Pascal Wohlwender, 13 April 2023

What is prosh?

- **prosh** stands for **productivity shell**
- It is a shell that supports user productivity by preventing users from getting distracted

How does prosh work?

- It provides a **productivity mode**
- While activated, this productivity mode blocks distracting applications and websites

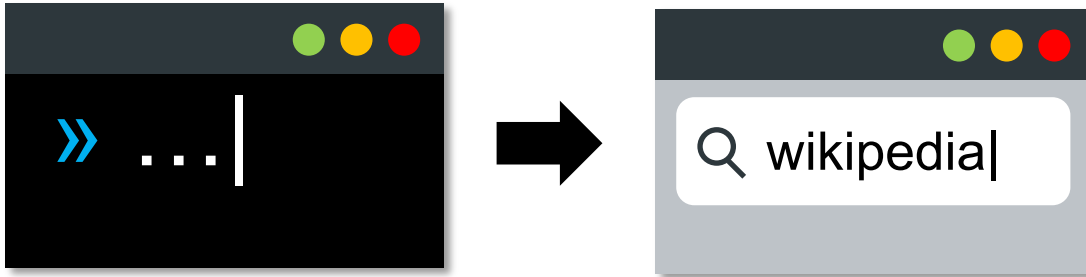
Example

Example



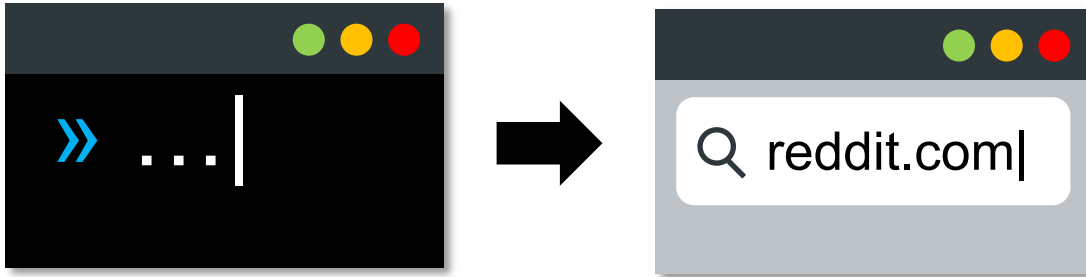
1. Start productivity mode.

Example



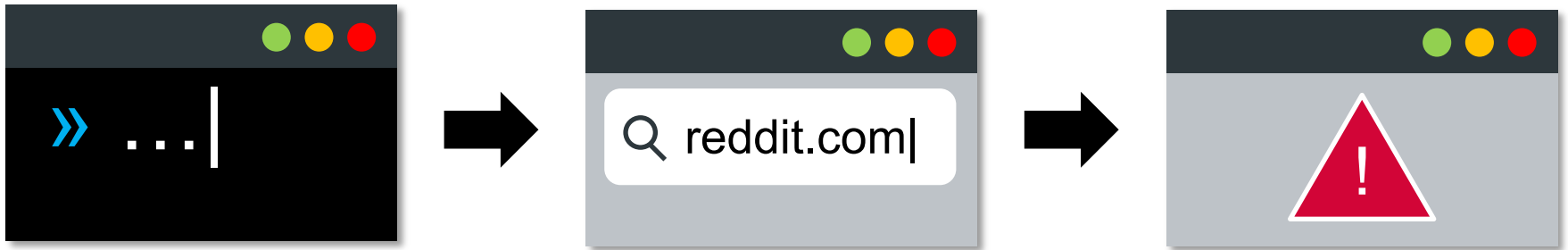
1. Start productivity mode.
2. Work on your project.

Example



1. Start productivity mode.
2. Work on your project.
3. If you try to open a distracting app or website...

Example



1. Start productivity mode.
2. Work on your project.
3. If you try to open a distracting app or website, you will receive an error.

Basic Commands

- Start productivity mode by specifying a time period
- Show current status (on/off, remaining time)
- Exit productivity mode early (if permitted)

Advanced Commands

- Adding apps and websites to the whitelist/blacklist
- Removing apps and websites from the whitelist/blacklist

Nice-to-have features

- Bash commands work too
- Popups when application or website is blocked

Unique Selling Points

- Students learn something about shells and commands while being productive
- Bash commands still work

Shell Architecture



{ .c }

- **Main file**
 - main()
 - read_input()
 - process_input()
 - call_bash()



{ .c }

- **Command file**
 - startProductivityMode()
 - exitProductivityMode()
 - showStatus()
 - ...



{ .c }

- **Whitelist/blacklist manager**
 - add()
 - remove()
 - ...

Project Plan

- **30 April 2023:** Shell exists with simple commands
- **21 May 2023:** Basic productivity mode works
- **11 June 2023:** Finished shell with advanced and nice-to-have features
- **14 June 2023:** Project deadline



University
of Basel

Thank you
for your attention.