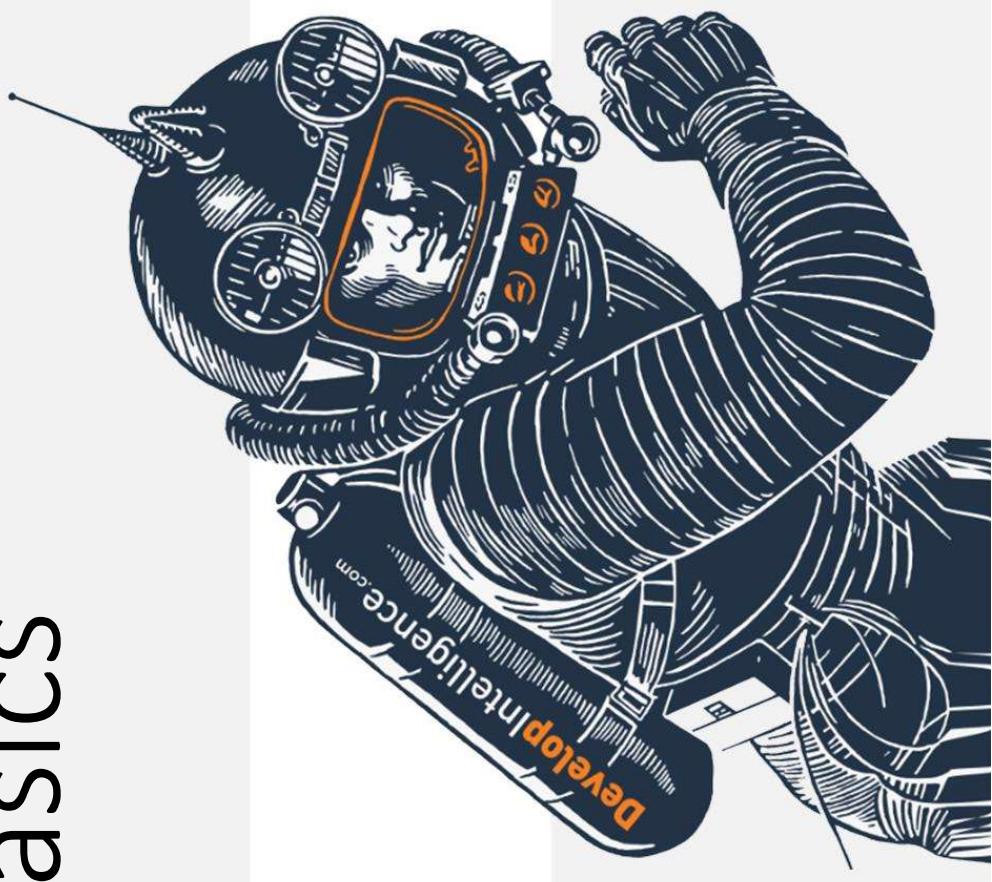


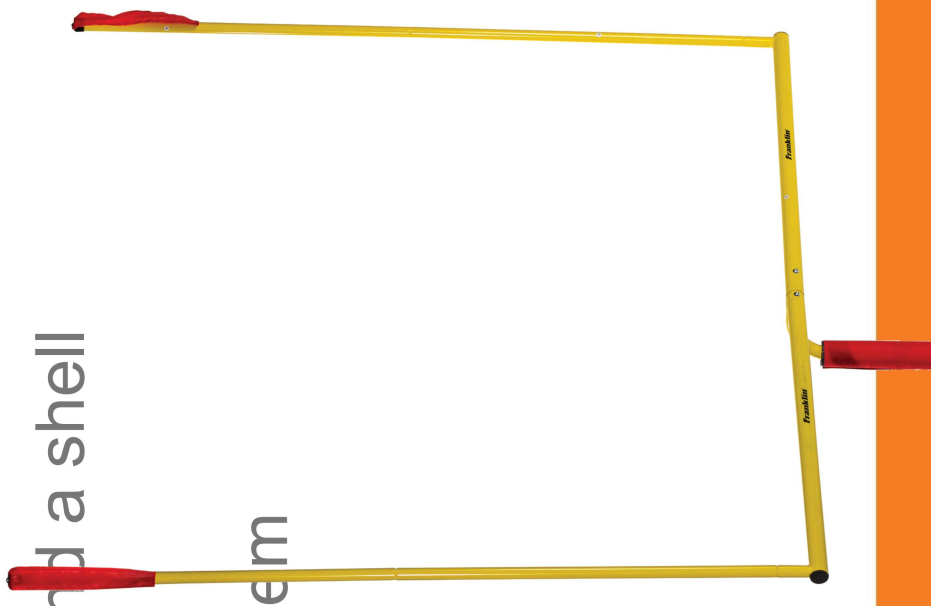
Command Line Basics





Goals

1. Explain the difference between a terminal and a shell
2. List 3 nearly universal terminal tricks
3. Describe how to navigate through a file system

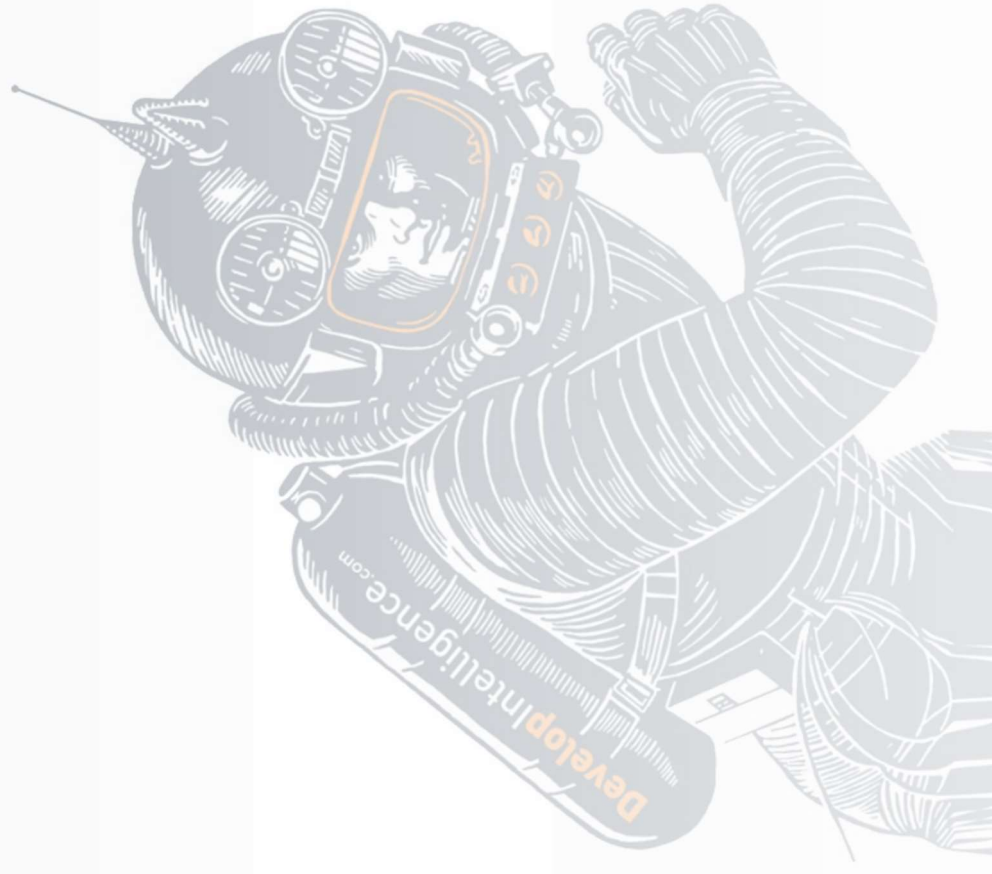




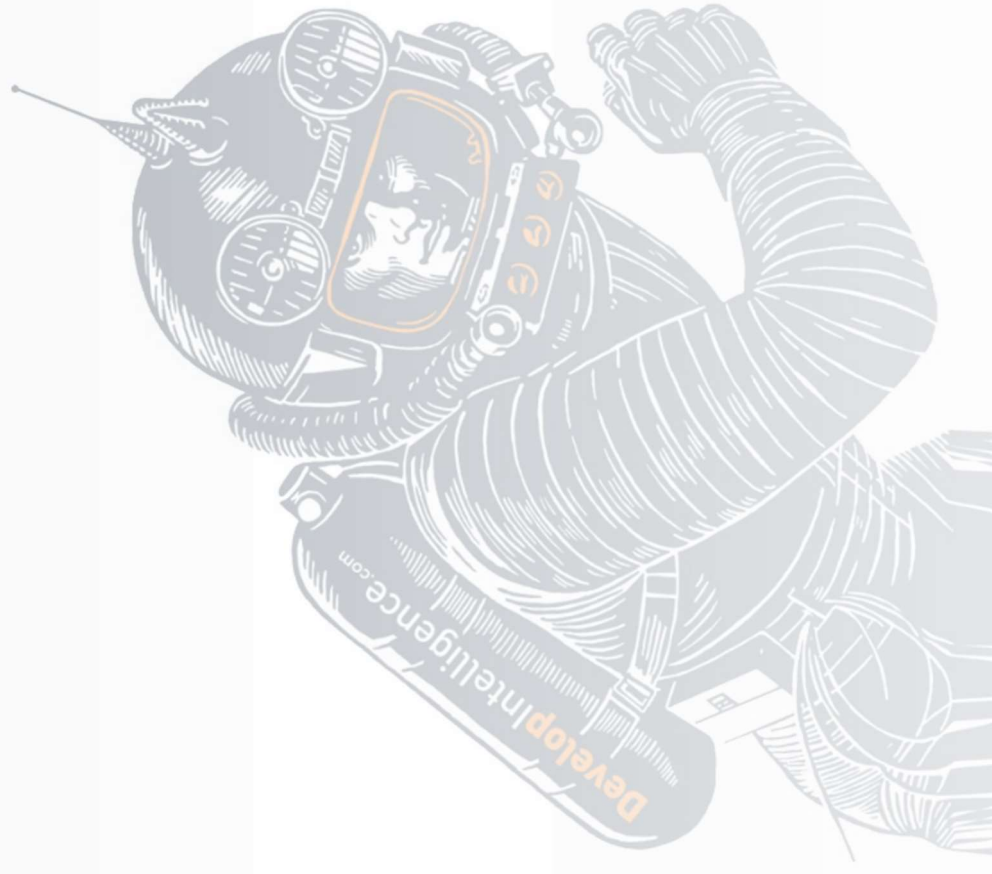
Roadmap

1. Terminology
2. Directories
3. Terminal Tricks





Terminology





Overview

- CLI
 - Shell
 - Terminal
-



Command Line Interface



Develop
Intelligence

A command-line interface (CLI) to receive commands from a user in the form of lines of text. This provides a means of setting parameters for the environment, invoking executables and providing information to them as to what actions they are to perform.

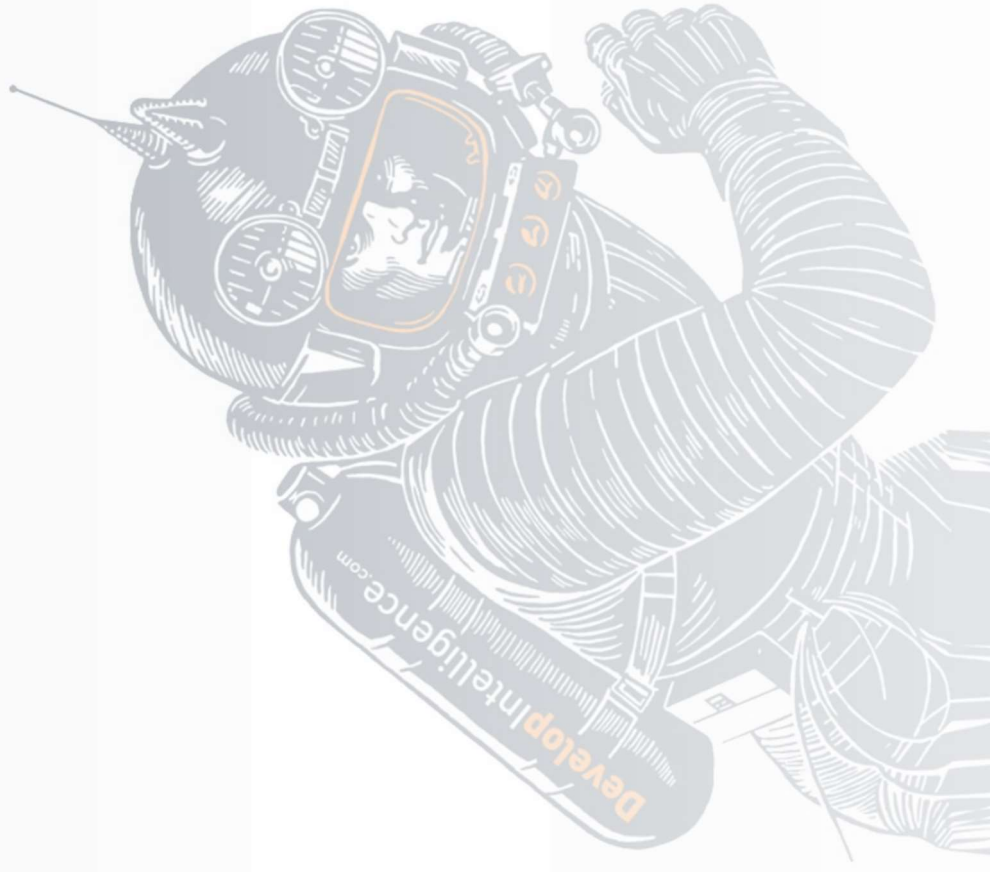


- Exposes OS functionality via CLI
- Has syntax, functions, commands
- Examples
 - Bash
 - Powershell
 - CMD.exe

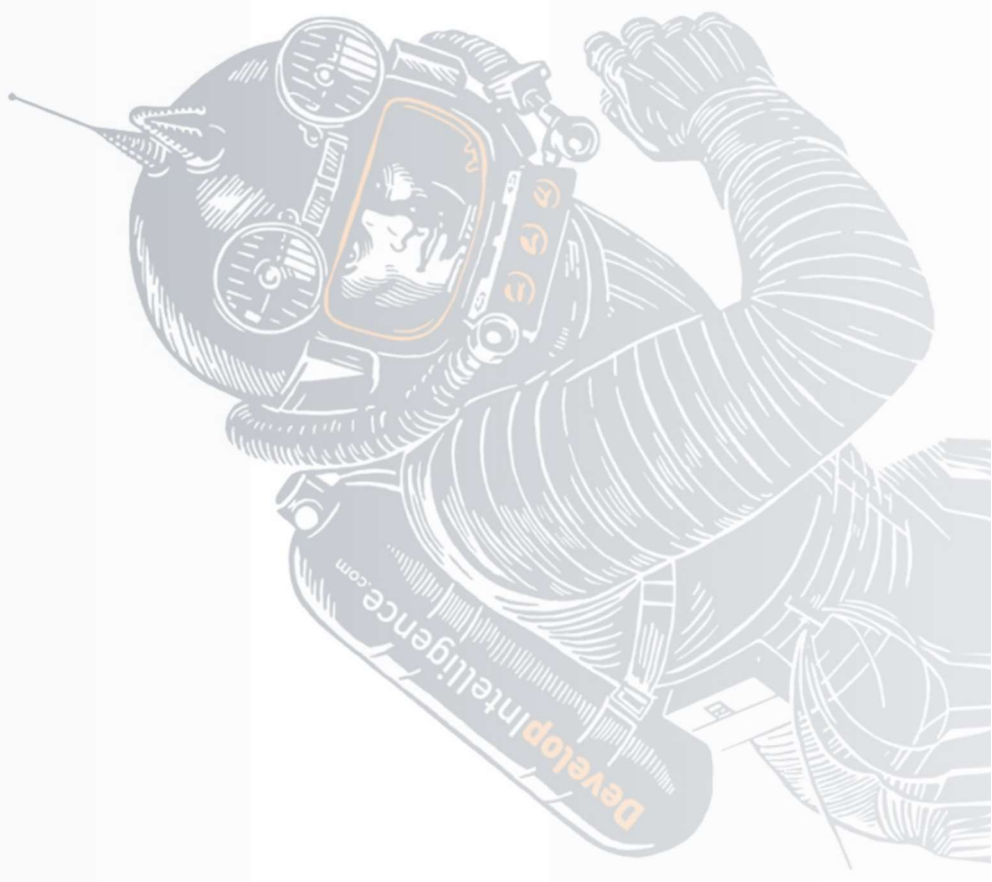


Terminal Emulator

- Application for interacting with a shell
- Examples
 - Windows Terminal
 - Windows Console
 - Terminator (Linux)
 - Hyper (Cross-platform, fancy)



Directories





Overview

- Applies to almost anything
- Powershell is good for Windows





Directories

- The shell is always in a specific location
 - Usually on the file system
- Navigate through folders via `cd`





Directory Shorthand

- . (dot) - the current directory
- .. (double-dot) - parent directory
- ~ (tilde) - home directory
- / (slash) - root directory



Directory Contents

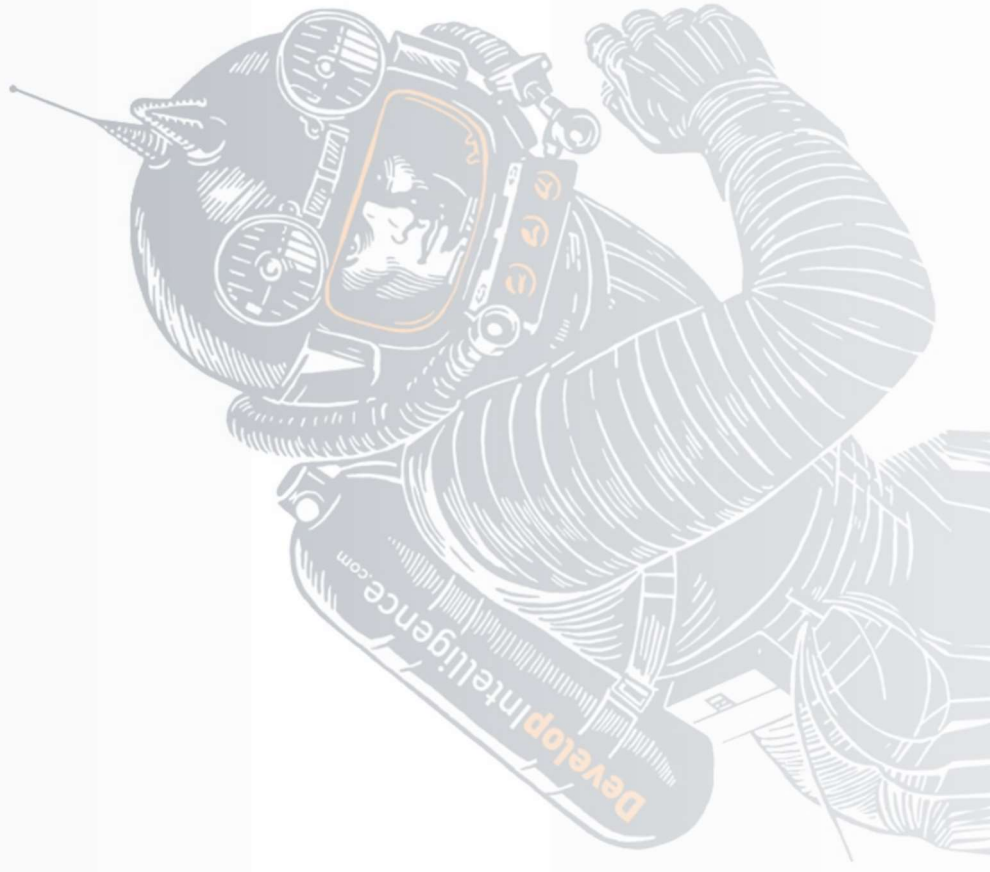
- Command:
 - Unix: ls
 - Windows: dir
 - Posh: Get-ChildItem



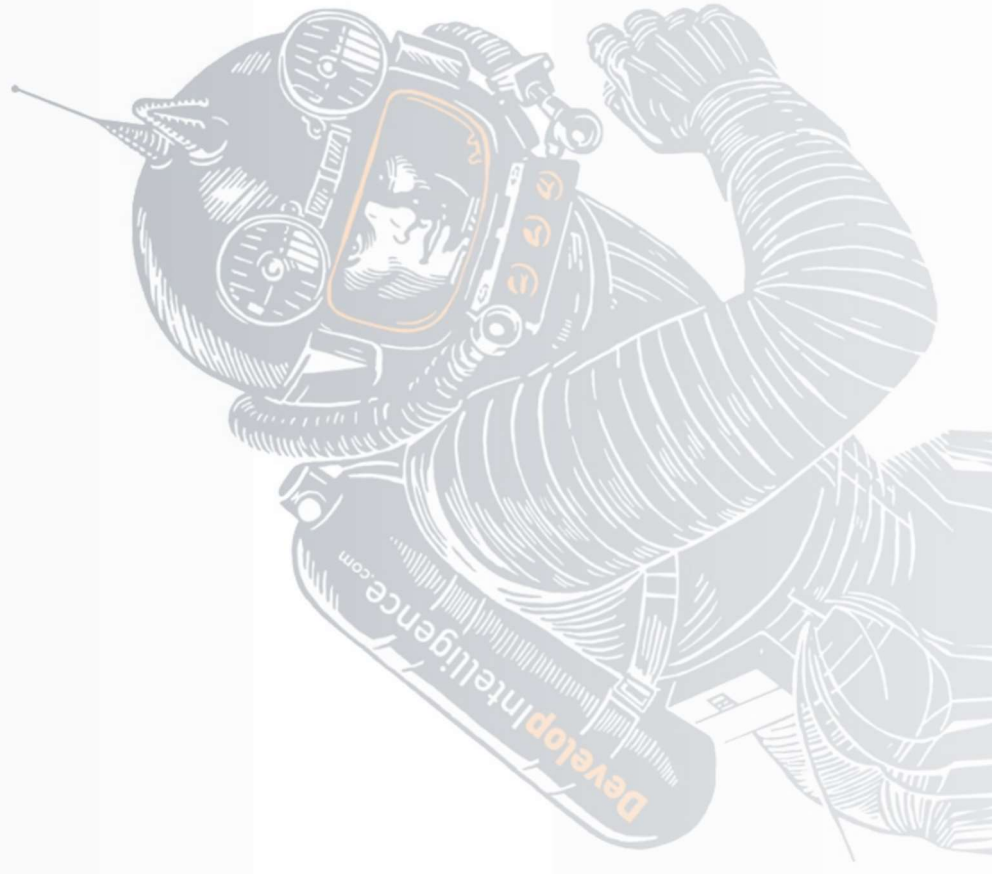
Creating a Directory

- Command:
 - Unix/Windows: `mkdir`
 - Posh: `New-Item -ItemType Directory`





Terminal Tricks





Disclaimer



Develop
Intelligence

- These generally work regardless of the terminal
- There's more
- There are variations





History

- Use arrow keys to cycle through history
- Up gets previous commands
- Down gets subsequent commands



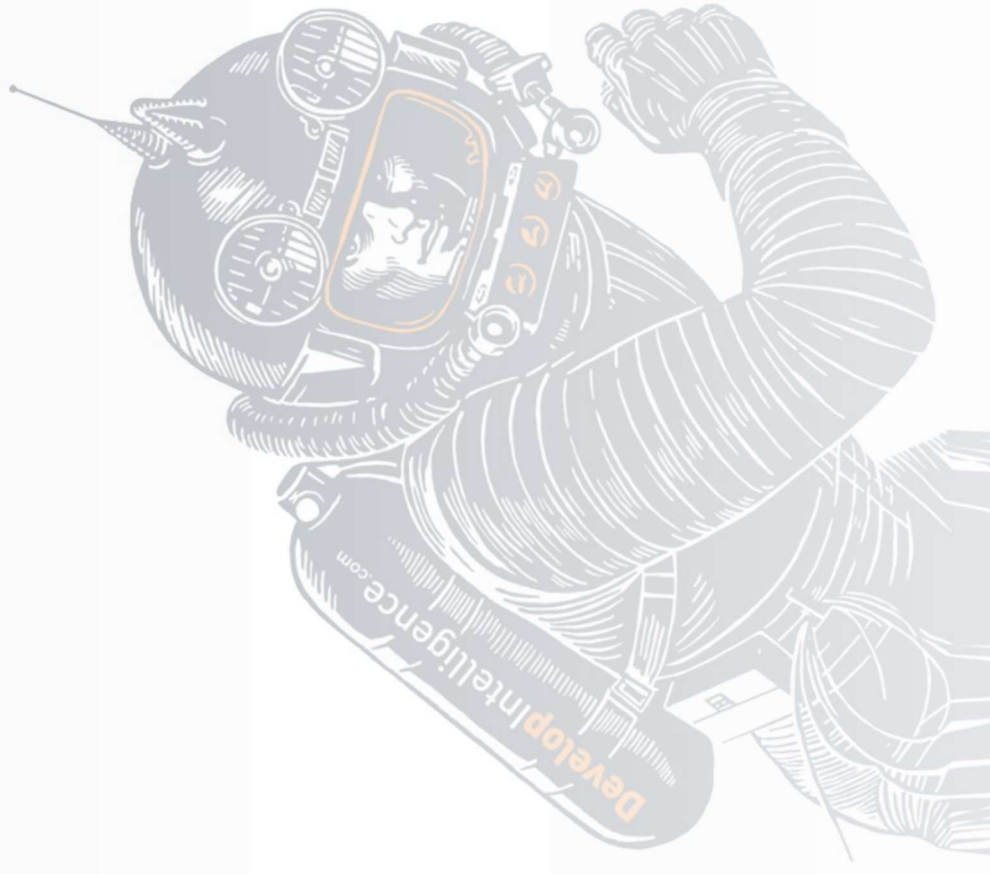
Tab Completion

- Try hitting tab if
 - You don't know what to do
 - You're too lazy to type



Quit

- To quit a running application: `ctrl + c`
- To quit a terminal exit





Review

1. Explain the difference between a terminal and a shell
2. List 3 nearly universal terminal tricks
3. Describe how to navigate through a file system

