Decompose Note Project

Can you hear and see me well?

```
> Write to chat
> + good
> – problems with audio or video
```

Agenda

- Introduction
  - Workshop goals

- CLI in Node

  - Why CLI?
  - Why JavaScript / Node?
  - Basic Principles

- Practice with CLIs

  - Hello CLI
  - help & version
  - oclif

- Note Project

  - About
  - WOW
  - Next Steps

Goals

- Get to know each other

- Introduce ▢▢▢▢▢ Planet goals and motivation

- Understand Basic CLI Concepts

- Decompose Note Project, Plan a Sprint

To start with - Introduce yourself! 😀

- Who are you?
- What's your programming experience?
- Do you have questions about ⬜ ?

Workshop Goals

Back to Workshops

Workshop goals

Q&A

Docs

- Note Project - https://github.com/korzio/note

- My Stories

- CLI in Node by Myself

- Evolution of the Heroku CLI: 2008-2017

- 12 Factor CLI Apps - Heroku

Introduction

A command-line interface or command language interpreter (CLI), is a means of interacting with a computer program where the user (or client) issues commands to the program in the form of lines of text (command lines). A program which handles the interface is called a command language interpreter or shell.

(c) Wiki

Porque?

Which CLI program

- Do you like?
- Do you use the most?

- Why JavaScript?
- Why Node?

Popular CLIs

Top

-
-

Runners

- gulp
- grunt

Generators & Developer Experience

- yeoman
- create-react-app
- angular-cli
- polymer-cli

Why CLI?

- **Tools** for
  - improving **developer experience** and
  - task automation
- *which allow to gain even more!*
- *That's fun!*

?

Why Node?

- Practice with
- Atwood's Law - *any application that can be written in JavaScript, will eventually be written in JavaScript*
- Fast and easy to develop
- A rich infrastructure with all kinds of packages and libraries with
- Modules & plug'n'play

?

- need to be installed?!

Principles Question

Which basic principles of designing a ⬜ program you might mention?

Principles

- A user want to understand what's happening
  - ◦
  - ◦
  - ◦

- UNIX Philosophy

  - ◦
  - ◦
  - ◦

- Environments

  - ◦
  - ◦

Basic Principles

Q&A

-->

Practice

Hello CLI

Demo

```
mkdir my-test-cli
npm init
echo "console.log('Hello CLI')" > index.js
npm start
npm install --global .
my-test-cli
```

package.json

```json
{
  "name": "my-test-cli",
  "version": "1.0.0",
  "description": "Hello CLI",
  "main": "server.js",
  "bin": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "man" : "./man/doc.1"
}
```

- ▢▢▢ - exports
- ▢ - make an executable ▢▢▢ inside ▢▢▢, ▢▢▢▢▢▢
- ▢ - ▢▢▢ - feedback on a package 🤗

Execution

- ⬚⬚⬚⬚ specifies an interpeter in ⬚⬚ systems

```
#!/usr/bin/env node
```

- ⬚⬚⬚⬚ contains arguments which a program is called with

What will be an output of running ⬚⬚⬚⬚ ?

```
console.log(process.argv)
```

```
node server hello world
```

- ⬚⬚ internal module provides a Read-Eval-Print-Loop (REPL) implementation

help & version

Demo

```
> my-test-cli

Usage:
--help    Help documentation
--version Installed package version
```

Heroku, SalesForce framework to build CLIs

Features

- ⬚⬚⬚⬚⬚⬚ (can be ⬚⬚⬚⬚⬚⬚)
- Auto-documentation
- Parse Arguments
  - Flags VS Arguments
- Code generation (with ⬚⬚⬚⬚)
  - Single Commands VS Multi Commands
- Project' folders structure
- Hooks - a way to extend commands behavior
- Test & Build & Package

Note Project

Educational Open Source Notes Project to practice with JavaScript, TypeScript, Node, oclif, Git, Web Components, Project Management

- https://github.com/korzio/note

- What?

- Who?

WOW

- Where do we work
  - https://github.com/korzio/note
- Sprints (2 weeks)
- Time Commitment (8 points)
- My Role (PM and programming)
- Repository Structure
  - ,
  - ,
  - ,
  -
- Medium
- Slack

Demo

Next Steps

- Sprint Template

  - Medium Note
  - Twitter Note
  - Follow up
  - ...

- Next Meeting - in 2 weeks

  - ...

Feedback

Please share your opinion on Decompose Note Project webinar

https://forms.gle/qpbckMntS8w2x1Wq8

Summary

- Get to know each other

- Understand Basic CLI Concepts

- Overviewed different ▢
  packages for developing a CLI

- Practice with CLI in ▢

- Start Note Project

Thank you!

Questions?

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