

Rust BuildOn #3

Jim Fawcett

<https://JimFawcett.github.io>

March 12, 2021

Build-On

- Learn Rust in small steps
- Start with a simple Rust demo
 - Text Finder
- Build on that in interesting ways, e.g., for Text Finder:
 - Add capability – command line parsing, directory tree walking, ...
 - Use generics – plugin components
 - Use threads – parallel text searches, thread pool based dir traversal
 - Use library components
- Discord server
 - Q&A
 - Comments

BuildOn Timeline: Bi-Weekly Sessions

- Session #1 – BuildOn Introduction & Rust Preview
- Session #2 – Project Introduction & Some Rust details
- Session #2 – **Step #1**: TextSearch -> Functional package with demo
- **Session #3 – Step #2: DirNav ->** “
- Session #4 – **Step #3**: CmdInParser -> “
- Session #5 – **Step #4**: Executive, Display -> Functional project
- Session #6 – RegEx Extension ?
- Session #7 – Parallel Text Search ?

BuildOn Session #3 Topics

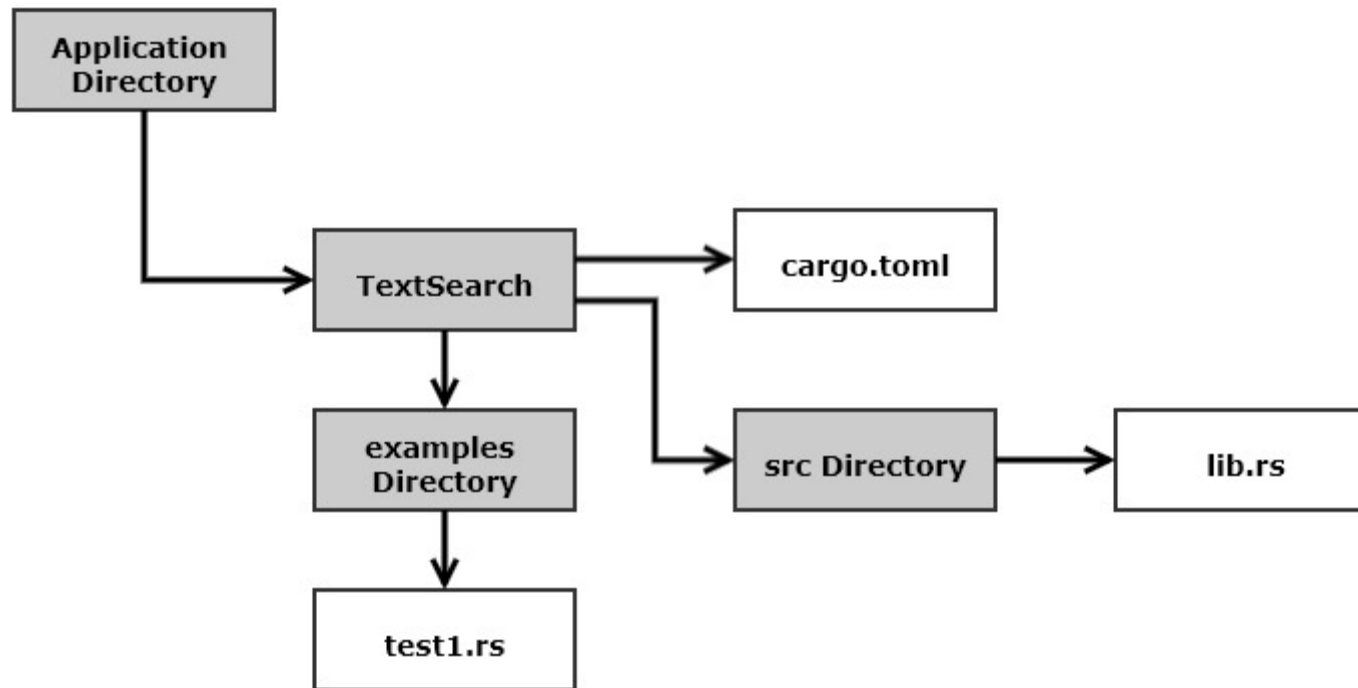
Focus: TextSearch & DirNav Packages

- [Step #0](#)
 - Run TextFinder
 - [DesignBites Intro](#)
- [Step #1](#) - TextSearch
 - [A TextSearch Solution](#)
- [Step #2](#) – DirNav
 - [RustStory Libraries.html#fs](#)
 - [std:fs](#)
- [BuildOn](#)

Focus: Rust

- [RustBites: Generics & Traits](#)
- [Iterating over Generics](#)
- [RustStory: Traits](#) – dynamic dispatch
- [Enumerations](#)
 - [Custom Enumerations and matching](#)
 - [Non-Enum matching](#)
- [RustBites: Options](#)
- [RustBites: Error Handling](#)
- [Anim Features](#)
- **Questions?**

Rust Project Structure for TextSearch



BuildOn

- Session #3
 - DirNav
- Session #4
 - CmdInParser
- Session #5
 - Executive & Display
- Session #6 ?
 - RegEx Search
- Session #7 ?
 - Parallel Text Search

That's All Folks!