Rust BuildOn #2

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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**: CmdlnParser ->   "

- Session #5 – **Step #4**: Executive, Display -> Functional project

- Session #6 – RegEx Extension ?

- Session #7 – Parallel Text Searh ?

How would I use Rust at work?

- Migrate parts of a large project to Rust using its foreign function interface (ffi)
    - https://locka99.gitbooks.io/a-guide-to-porting-c-to-rust/content/
    - std::ffi
- Use Rust generated WebAssembly to speed JavaScript processing
    - https://rustwasm.github.io/book/
- Start new projects in Rust
    - Great tooling: https://jimfawcett.github.io/Resources/RustBites/RustBites_Tooling.html

BuildOn Session #2 Topics

Focus: TextSearch Package

- Step #0
- Step #1 - TextSearch
  - Starter Code
  - Tooling
  - Functions
  - Structs
  - RustStory_Libraries.html#fs
  - std:fs
- BuildOn
- Run TextFinder

Focus: Rust

- Safety
- Anim_Features
- RustBite_Data
- Rust Bites
- Rust Story
- Code Experiments
- **Questions?**

Next BuildOn – Session #3 – DirNav

Project Packages

- Step #1 – Quick Review
  - Text Search package
  - Posted solution
- Step #2 - DirNav
  - DirNav package spec
  - Look at Starter Code

Rust

- Enumerations
- Error Handling
- Conversions
- Generics &Traits
- Answer Questions

BuildOn

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

That's All Folks!