Rust | Course Introduction

Why Rust?

- High-level language features without performance penalties
- Program behaviors can be enforced at compile time
 - Enhanced program reliability
- Built-in dependency management, similar to npm
- Quickly growing ecosystem of libraries
- Friendly & welcoming developer community

Technical Rust Goodies

- First-class multithreading
 - Compiler error to improperly access shared data
- Type system:
 - Can uncover bugs at compile time
 - Makes refactoring simple
 - Reduces the number of tests needed
- Module system makes code separation simple
- Adding a dependency is 1 line in a config file
- Tooling:
 - Generate docs, lint code, auto format

About Course

- Rust is different by design
- "Clean slate" approach
 - Important because of subtle language differences between Rust and others
 - Learn Rust versus learn to fight the compiler
 - Helps facilitate learning Rust
- Plenty of coding exercises for becoming familiar with Rust code

Enjoy!