Writing command line apps in Rust

Quick intro

bit.ly/rust-cli-intro

Some examples

bit.ly/rust-quicli

Useful libraries

Argument parsing
clap.rs

Deal with JSON, TOML, XML, etc.
serde.rs

Find more libraries
crates.io

Learn more about the Rust project
rust-lang.org

Stay informed about Rust
youtube.com/RustVideos

this-week-in-rust.org

```
▶ cargo new tiny-grep
▶ echo 'structopt = "0.2"' >> Cargo.toml
▶ # Write the following in src/main.rs:
#[macro_use] extern crate structopt;
use structopt::StructOpt;

/// Search for a pattern like "ulalala" in a file
#[derive(StructOpt)]
struct Cli {
    /// The pattern to look for
    pattern: String,
    /// The path to the file to read
    path: String,
}

fn main() {
    let args = Cli::from_args();
    let content = std::fs::read_to_string(&args.path)
        .expect("could not read file");

    for (n, line) in content.lines().enumerate() {
        if line.contains(&args.pattern) {
            println!("{}: {}", n, line);
        }
    }
}

▶ cargo run
▶ cargo run -- --help
▶ cargo run -- ulalala src/main.rs
3: /// Search for a pattern like "ulalala" in a file
```

rust-lang.org