02-echor

目标:实现简单版的echo命令

实现

使用 clap 库:

在 Cargo.toml 文件中添加依赖:

```
C#

1 [dependencies]
2 clap = "2.33"
```

- ArgMatches::values_of
 - Returns Option<Values>
- ArgMatches::values_of_lossy
 - Returns Option
- Option

```
Rust

1  pub enum Option<T> {
2    None,
3    Some(T),
4 }
```

- · Values
 - An iterator for getting multiple values out of an argument.
- The Option::unwrap function will take the value out of Some<T> to get at the payload T.
 - 。 如果是 None 就会 panic
- · main.rs

```
Rust
```

```
use clap::{App, Arg};
 1
 2
 3
   fn main() {
        let matches = App::new("echor")
 4
            .version("0.1.0")
 5
            .author("liujianhao")
 6
            .about("Rust echo")
 7
            .arg(
 8
                Arg::with_name("text")
 9
                     .value_name("TEXT")
10
                     .help("Input text")
11
12
                     .required(true)
                     .min_values(1),
13
14
            )
15
            .arg(
                Arg::with_name("omit_newline")
16
17
                     .help("Do not print newline")
                     .takes_value(false)
18
                     .short("n"),
19
            )
20
21
            .get_matches();
22
        let text = matches.values_of_lossy("text").unwrap();
23
24
        let omit_newline = matches.is_present("omit_newline");
        let ending = if omit_newline { "" } else { "\n" };
25
        print!("{}{}", text.join(" "), ending);
26
27
        // println!("{:#?}", matches);
28
29 }
```

测试

更新测试的依赖:

· Cargo.toml

Makefile

```
1 [dev-dependencies]
2 assert_cmd = "1"
3 predicates = "1"
```

- fs::read_to_string
 - 。返回 Result
- · Use ? instead of Result::unwrap to unpack an Ok value or propagate an Err.
 - 。一个语法糖,要么正常返回Ok里的内容,要么直接返回报错