Data Types I Strings

String and &str

- Two commonly used types of strings
 - String owned
 - &str borrowed String slice
- Must use an owned String to store in a struct
- Use &str when passing to a function

Example - Pass to function

```
fn print_it(data: &str) {
    println!("{:?}", data);
fn main() {
    print_it("a string slice");
    let owned_string = "owned string".to_owned();
    let another_owned = String::from("another");
    print_it(&owned_string);
    print_it(&another_owned);
```

Example - Will not work

```
struct Employee {
    name: &str,
fn main() {
    let emp_name = "Jayson";
    let emp = Employee {
        name: emp_name
    };
```

Example - Works!

```
struct Employee {
    name: String,
fn main() {
    let emp_name = "Jayson".to_owned();
    let emp_name = String::from("Jayson");
    let emp = Employee {
        name: emp_name
    };
```

Recap

- Strings are automatically borrowed
- Use .to_owned() or String::from() to create an owned copy of a string slice
- Use an owned String when storing in a struct