基础语法

项目结构和项目文件定义

```
/
/Cargo.toml                    # 项目文件定义


/src                           # 源文件目录
├--/main.rs                    # main
└--


/target                        # 编译输出目录
├--/debug                      # debug目录
└--/release                    # release目录
```

```
[package]
name = "project_name"
version = "0.1.0"
edition = "2023"



[dependencies]
```

基础语法

```


# 定义不可变变量
let x = 5;


# 定义可变变量
let mut x = 5;
x=10;


# 变量覆盖
```

```
let x = 9;

fn function_name(){
}

// □□□□□□
// □□ ->□□□□□□
fn fun_name() -> u32 {
    // □□□□□□□□□□□
    // 55
    // □□□□ return
    // return 55;
}
```

□□□

```
struct Employ {
    name: String,
    age: u32,
    sex: String,
}

fn main() {
    let mut em: Employ = Employ {
        name: String::from("□□□"),
        age: 30,
        sex: String::from("a"),
    };
    em.name = String::from("donglietao");
    println!("{}", em.name);
}
```

□□□□□□□□□

```
fn main() {
    let em = get_employ();
  // □□□□
```

```
    let em2 = Employ { ..em };
    println!("{}", em.name);
    println!("{}", em2.name);



  // □□□□□□
   println!("{:#?}", em2);
}

fn get_employ() -> Employ {
    let mut em: Employ = Employ {
        name: String::from("□□□"),
        age: 30,
        sex: String::from("a"),
    };
    em.name = String::from("donglietao");
    return em;
}

 // □□□□□□□□
#[derive(Debug)]
struct Employ {
    name: String,
    age: u32,
    sex: String,
}
```

□□□□

```
fn main() {
    let em = Employ::new(String::from("□□□"), 33, String::from("1"));
    println!("{:#?}", em.to_string());
}

// □□□□□□
#[derive(Debug)]
struct Employ {
    name: String,
    age: u32,
    sex: String,
```

```
}

// 使用impl关键字
impl Employ {
    // 并没有构造函数一说
    fn new(name: String, age: u32, sex: String) -> Employ {
        return Employ {
            name: name,
            age: age,
            sex: sex,
        };
    }

    // 定义成员方法
    // 第一个参数self为实例本身
    fn to_string(self) -> String {
        return self.name;
    }
}
```

定义枚举

```
enum Sex {
    Main = 0,
    Woman = 1,
}
```

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