

Working With Data | *struct*

■ Structure

- ◆ A type that contains multiple pieces of data
 - All or nothing – cannot have some pieces of data and not others
- ◆ Each piece of data is called a “field”
- ◆ Makes working with data easier
 - Similar data can be grouped together

Example

```
struct ShippingBox {  
    depth: i32,  
    width: i32,  
    height: i32,  
}  
  
let my_box = ShippingBox {  
    depth: 3,  
    width: 2,  
    height: 5,  
};
```

```
let tall = my_box.height;  
println!("the box is {:?} units tall", tall);
```

■ Recap

- ◆ *Structs* deal with multiple pieces of data
- ◆ All fields must be present to create a *struct*
- ◆ Fields can be accessed using a dot (.)