COMP6991 23T3

Polymorphism

Smallest Value

Example time!

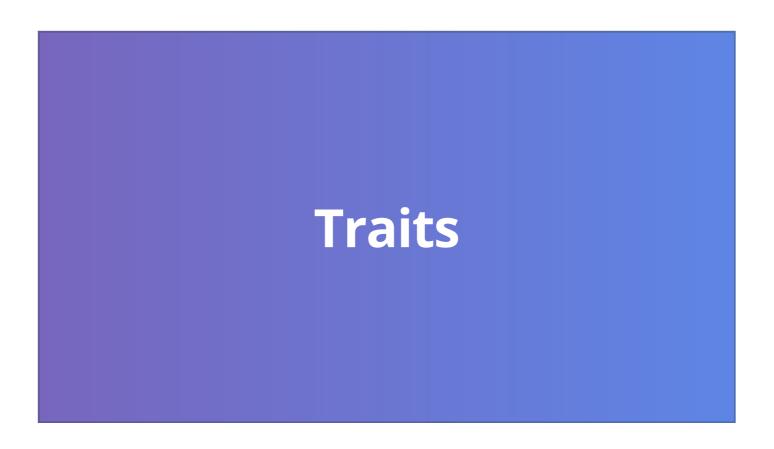> Example: generics.rs

Notes:
> Becoming generic
> Monomorphization
> Generic container

Type parameters
and type constructors

> What is the type `Option`?

> Ty -> Ty

> Types as restrictions

Traits

Common Std Traits

General

> Default

> Copy

> Clone

Common Std Traits

Formatting

> **Debug**

> **Display**

> **ToString**

Common Std Traits

Operators

> `PartialEq (& Eq)`

> `PartialOrd (& Ord)`

> `Add (& AddAssign)`

> `BitAnd (& BitAndAssign)`

> `...`

Common Std Traits

Conversion

> `From`

> `Into`

> `TryFrom`

> `TryInto`

> `FromStr`

> `AsRef (& AsMut)`

> `Borrow (& BorrowMut)`

> `ToOwned`

Common Std Traits

Error

> Error

Common Std Traits

Iteration

> `Iterator`

> `IntoIterator`

> `FromIterator`

Iterator trait

Fibonacci

Example time!

> Example: iter.rs

MyVecIter

Example time!

> Example: iter.rs

Trait objects