Recall: Signature vs. Class Diagram

Basic Object System Signature

Another Example

S = (T, C, V, atr)

where

• (basic) types T and classes C (both finite),
• typed attributes V, τ from T, or C₀, 1 or C ∗, for some C ∈ C,
• atr: C → 2 V mapping classes to attributes.

Example:

⟨ ⟨ Stereotype 1, . . . , Stereotype n ⟩ ⟩

Package::C

+ r : C₀, 1 = expr

s : D ∗ {ordered}

− v : Int = 27

w : Float {readOnly}

Ay : Int

B {A}

Dx : Int
From Class Boxes to Extended Signatures

What Do We Want / Have to Cover?

• All definitions we have up to now, ... , v

{⟨...⟩} := n

Mapping UML Class Diagrams to Extended Signatures

A class box

From Class Boxes to Extended Signatures

What Do We Want / Have to Cover?

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Mapping UML Class Diagrams to Extended Signatures

A class box
In "reality" (i.e. in full UML), we can introduce types in class definitions. For example, in a class definition:

```
class MyClass {
    Integer myInt;
}
```

This allows for more precise type specifications within the class definition, enhancing the clarity and correctness of the model.

