

Polymorphism: Introduction



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by Christine Alvarado, Mia Minnes, and Leo Porter, 2015.



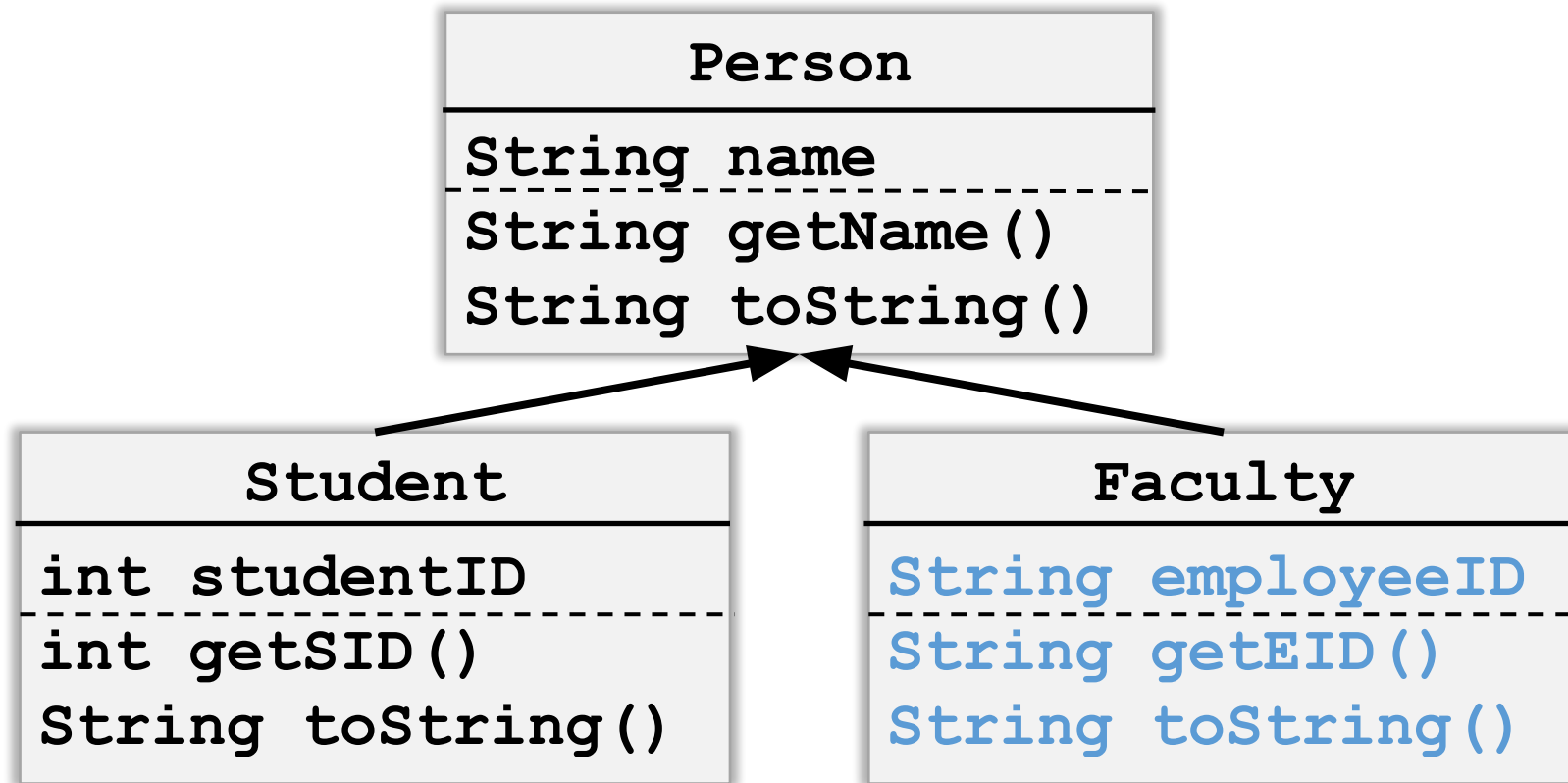
By the end of this video you will be able to...

- Explain the purpose of polymorphism

Polymorphism

- Superclass reference to subclass object

```
Person s = new Student("Cara", 1234) ;
```



```
// assume appropriate ctors
Person p[] = new Person[3];
p[0] = new Person( "Tim" );
p[1] = new Student( "Cara", 1234 );
p[2] = new Faculty( "Mia", "ABCD" );
```

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for(int i = 0; i < p.length; i++)
{
    System.out.println( p[i] );
}
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Output

Tim

1234: Cara

ABCD: Mia

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Next...
**Compile Time and
Runtime Rules**

Output

```
Tim
1234: Cara
ABCD: Mia
```