Lecture

Method Overriding

Method Overriding

Override:

"To be more important than something"

Source: Cambridge Dictionary

Method Overriding

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Body
```

Method Overriding

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Body
```

Method Overriding

Same Name

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

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def welcome_students(self):
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```

Method Overriding

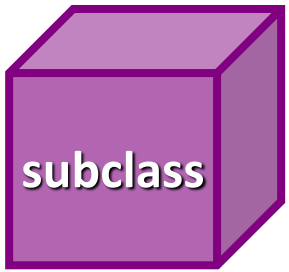
Same Name

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Body
```



Method Overriding

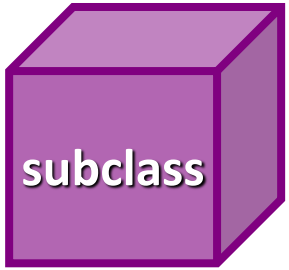
Same Name

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Body
```



Method Overriding

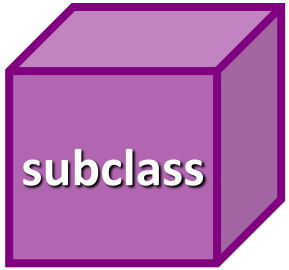
Same Name

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Body
```



Method Overriding

Superclass

```
def welcome_students(self):
    # Body
```

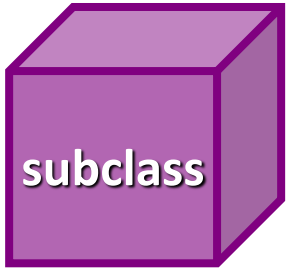
Method Overriding

New Syntax

Superclass

```
def welcome_students(self):
    # Body
```

Subclass




```
def welcome_students(self):
    # Code
    <superclass>.welcome_students(self)
```

Method Overriding

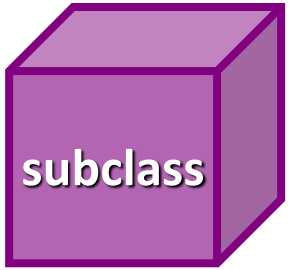
New Syntax

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Code
    <superclass>.welcome_students(self)
```



Method Overriding

New Syntax

```
<superclass>.<method>(self, <args>)
```

Method Overriding

New Syntax

```
Teacher.welcome_students(self, message)
```

Method Overriding

Alternative Syntax

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Code
    super().welcome_students()
```

Method Overriding

Alternative Syntax

Superclass

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Code
    super().welcome_students()
```

Method Overriding

Alternative Syntax

```
super().<method>(<args>)
```

Method Overriding

Alternative Syntax

```
super().<method>(<args>)
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```

Method Overriding

Alternative Syntax

```
super().<method>(<args>)
```

Alternative Syntax

```
super().welcome_students(message)
```

Method Overriding

Alternative Syntax

```
super().welcome_students(message)
```

Method Overriding

Purpose:

Expand or customize a method
that is already defined
in the superclass.

Method Overriding

terminology

Superclass

```
def welcome_students(self):
    # Body
```

Subclass **Overrides**

```
def welcome_students(self):
    # Body
```

Method Overriding

Superclass — **Overridden**

```
def welcome_students(self):
    # Body
```

Subclass

```
def welcome_students(self):
    # Body
```

Now… An Example