

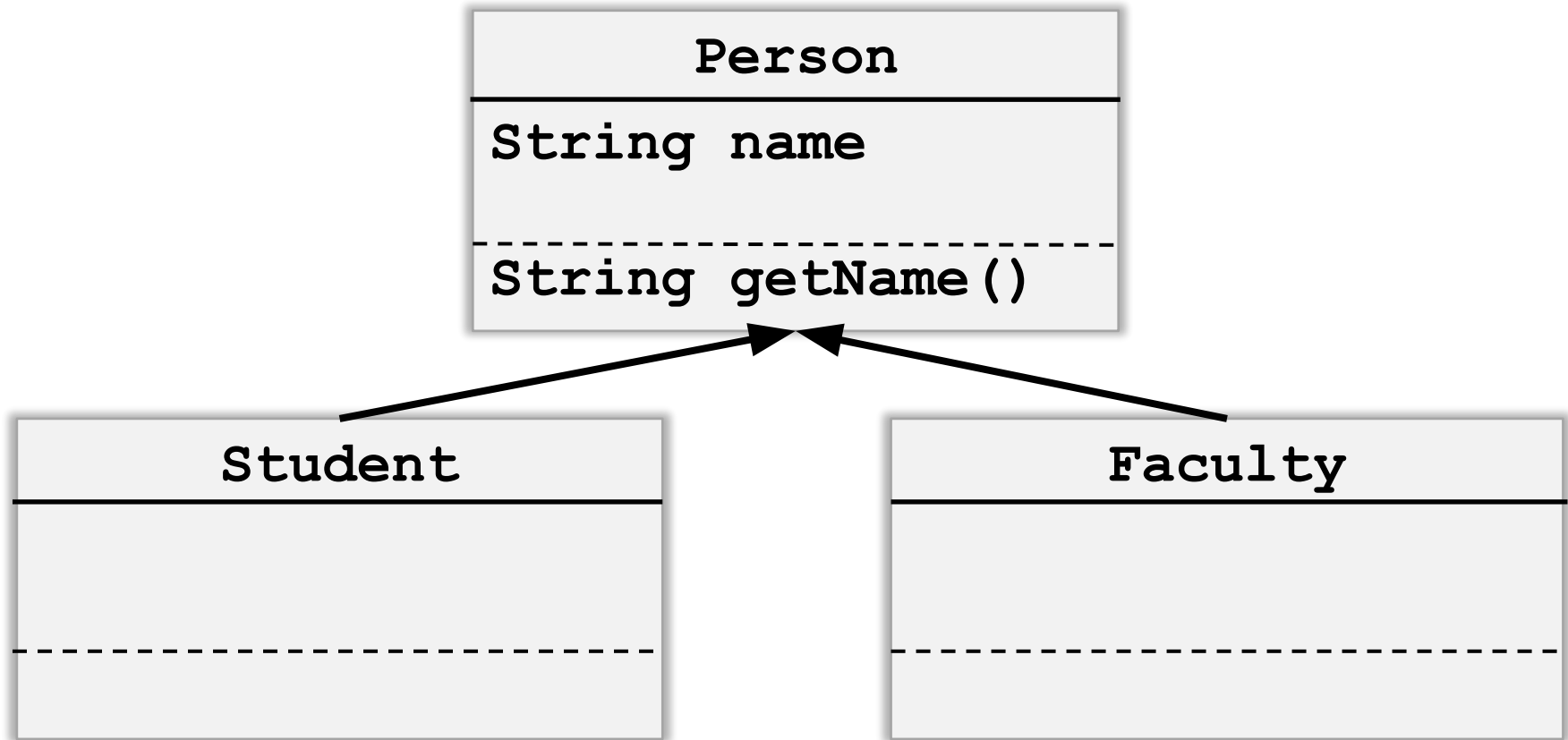
Object Construction in Java



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

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

- Recognize that all classes inherit from the Object class
- Describe how Java object construction occurs from the inside out



```
Student s = new Student();
```

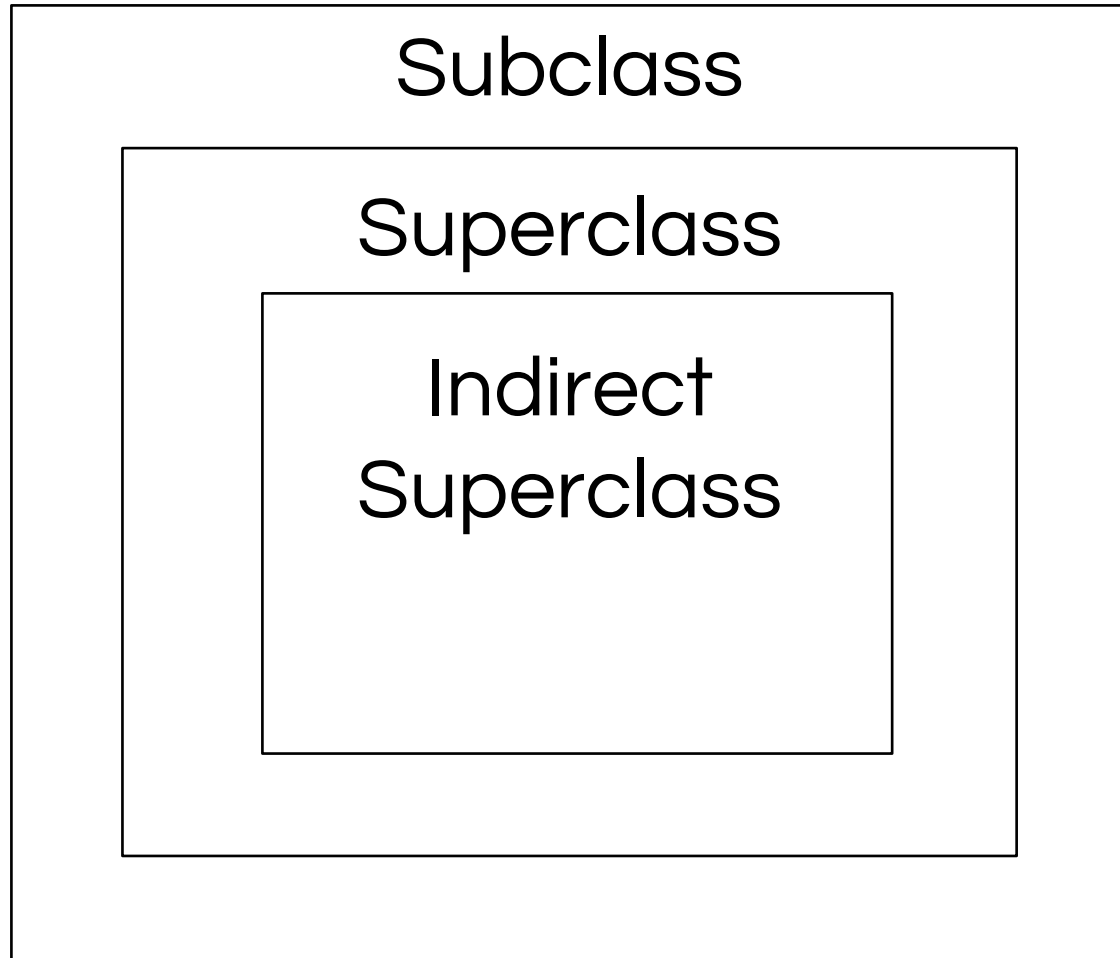
new allocates space

A diagram illustrating the role of the 'new' keyword in Java. At the top, a code snippet 'Student s = new Student();' is enclosed in a blue rectangular border. The word 'new' in this snippet is highlighted in blue. Below the code, a yellow rectangular box contains the text 'new allocates space' in bold black font, with the word 'new' also in blue. A black arrow points from the yellow box up to the 'new' keyword in the code snippet.

```
Student s = new Student();
```

this is passed to the constructor

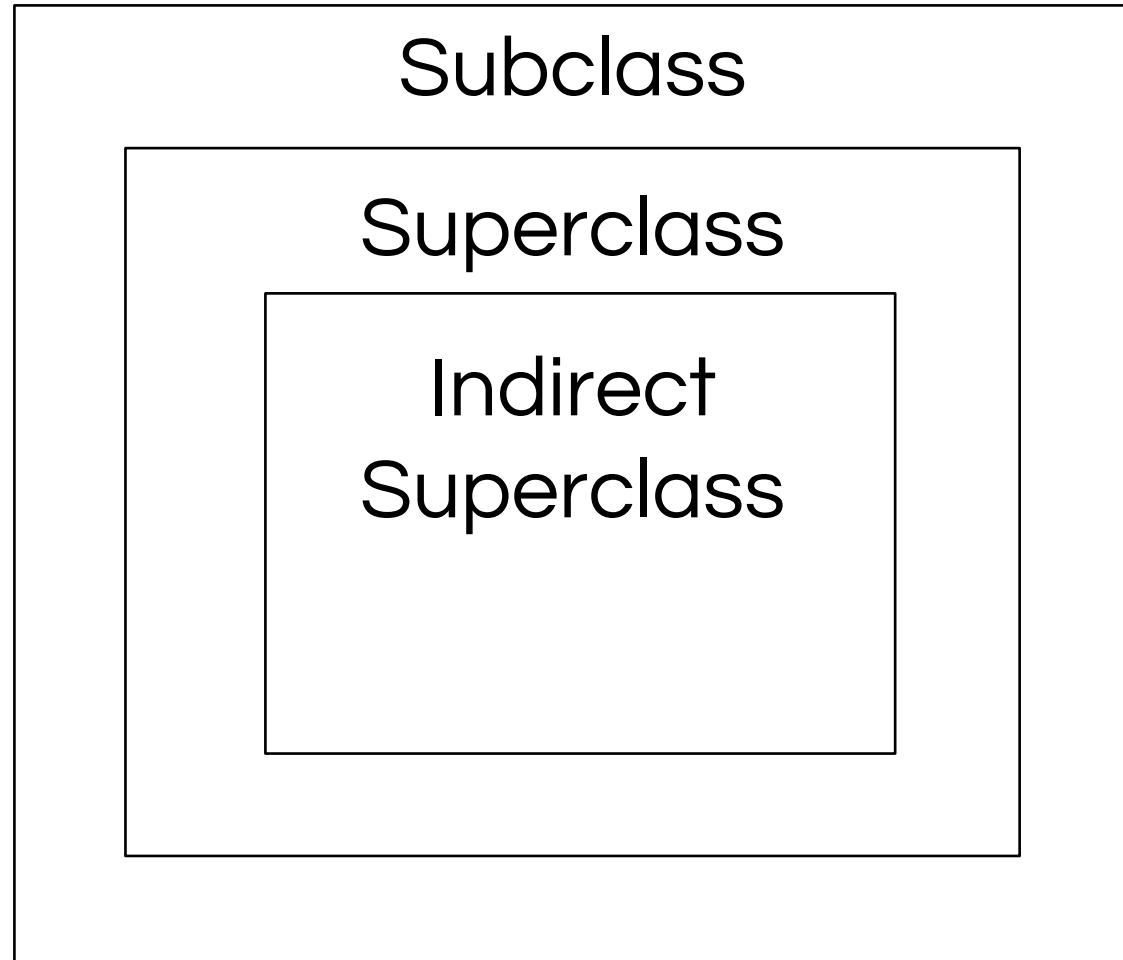
```
Student s = new Student();
```



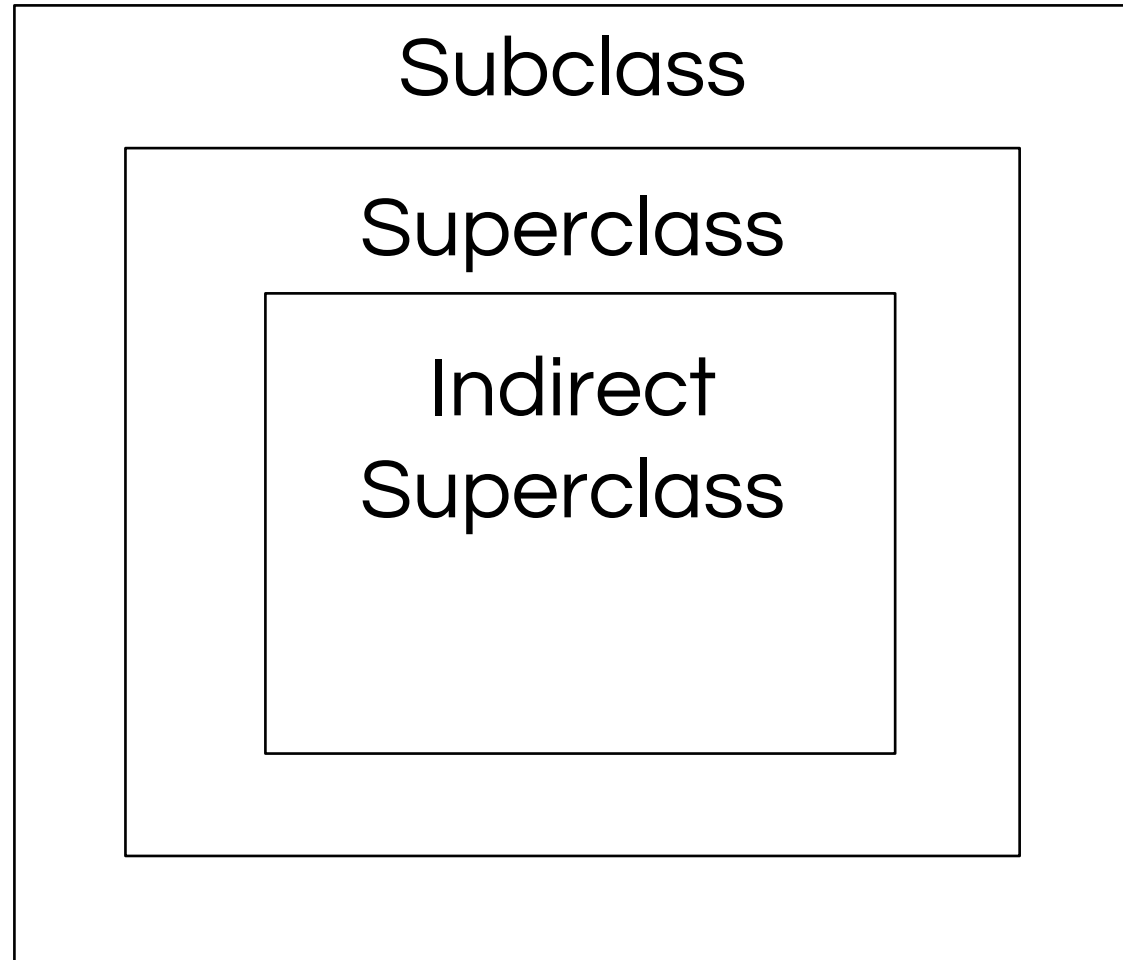
**Objects are
created from the
inside out**

```
Student s = new Student();
```

Student()



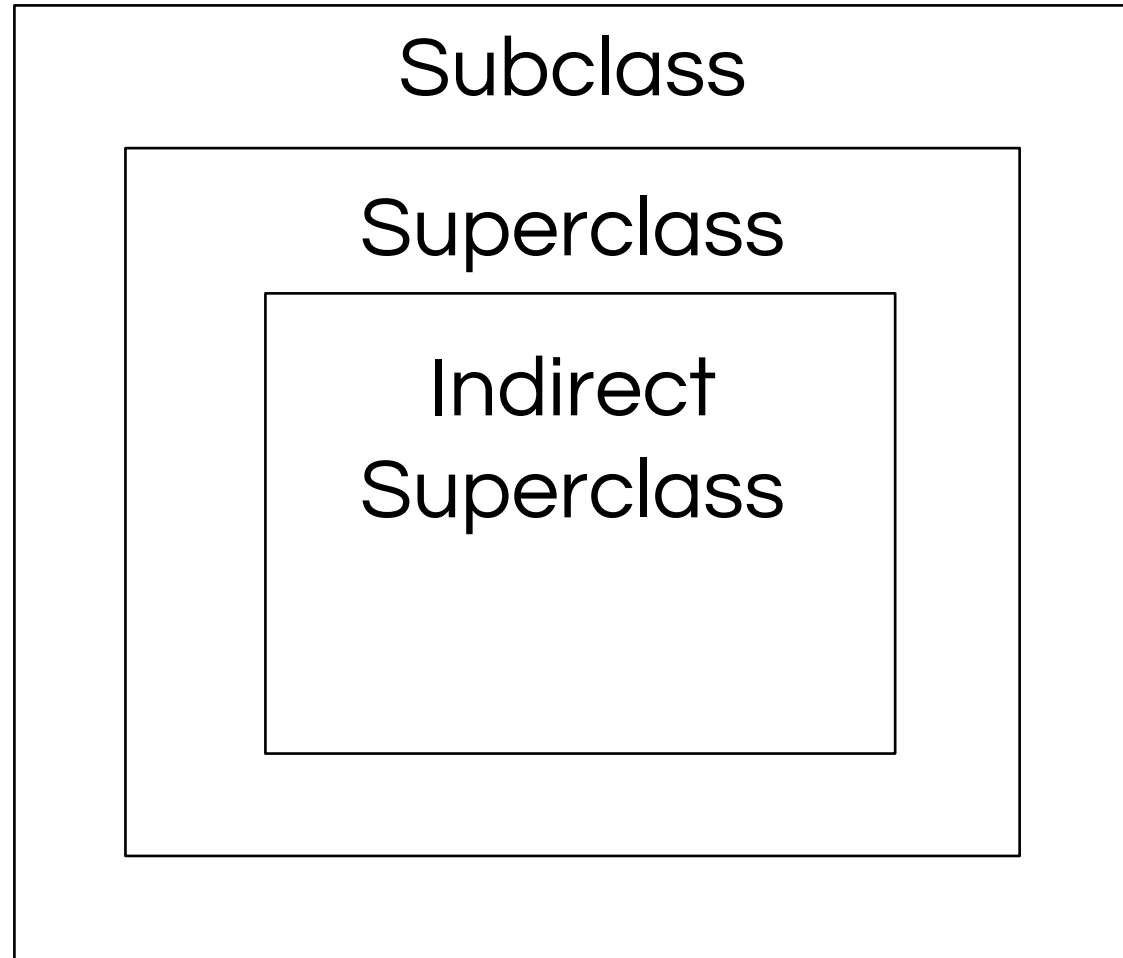
```
Student s = new Student();
```



Student()

Person()


```
Student s = new Student();
```

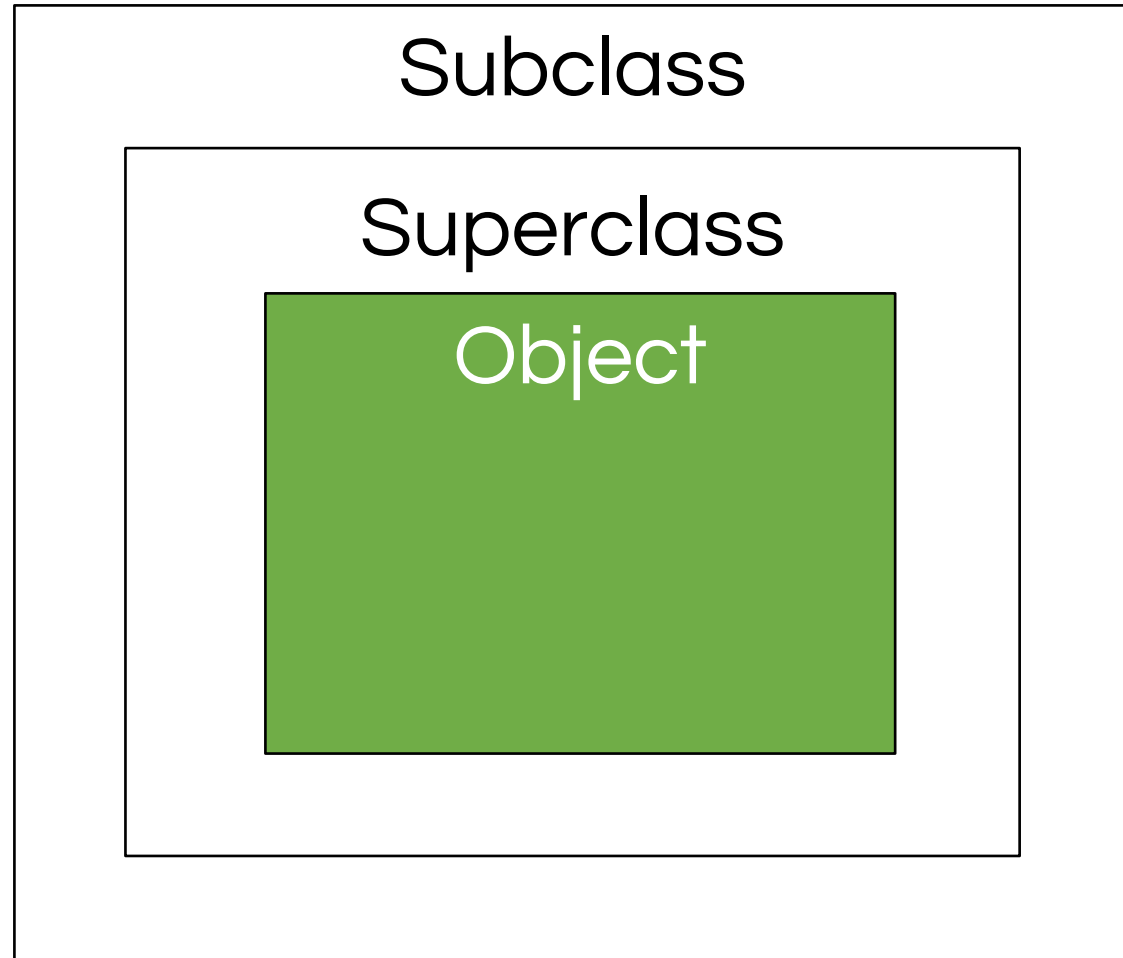


Student()

Person()

Object()

```
Student s = new Student();
```



Student()

Person()

Object()

```
Student s = new Student();
```

Subclass

Person

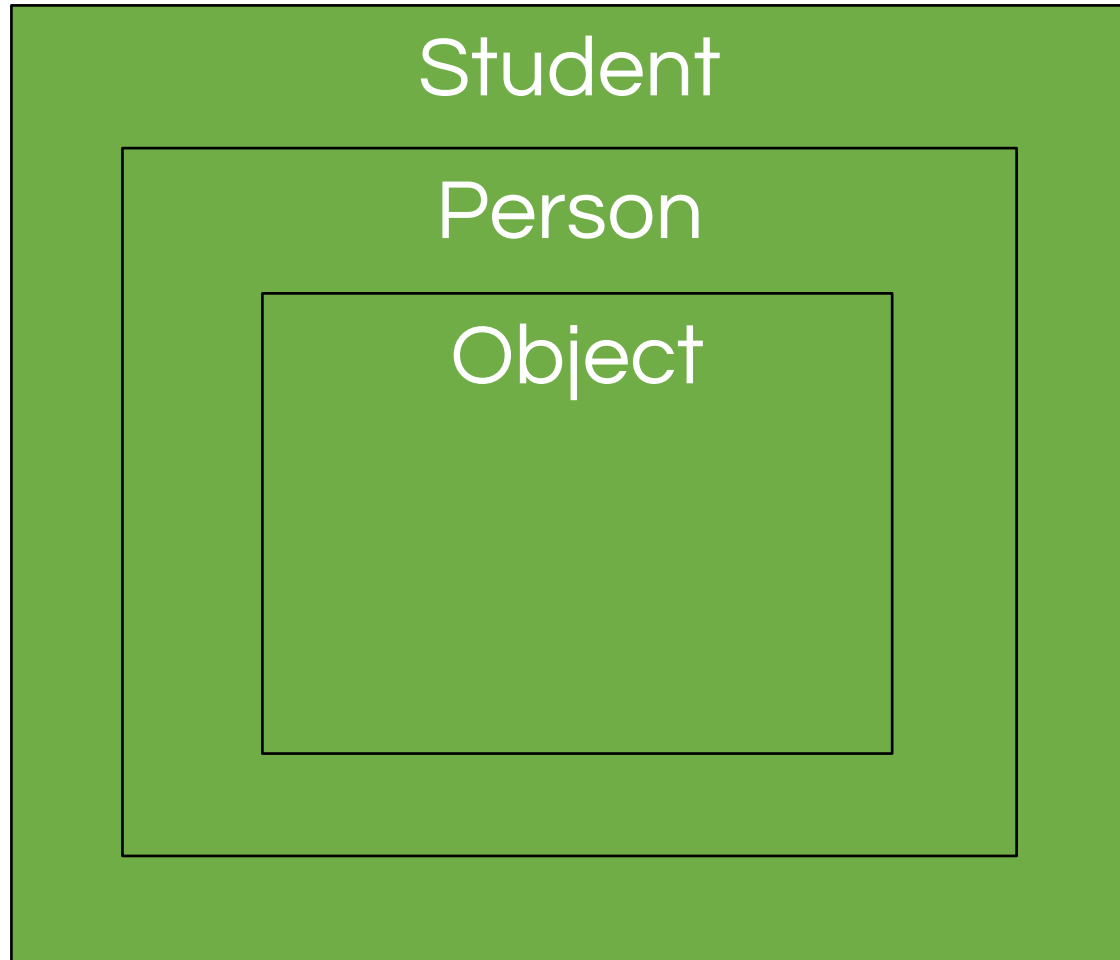
Object

Student()

Person()

```
Student s = new Student();
```

`Student()`

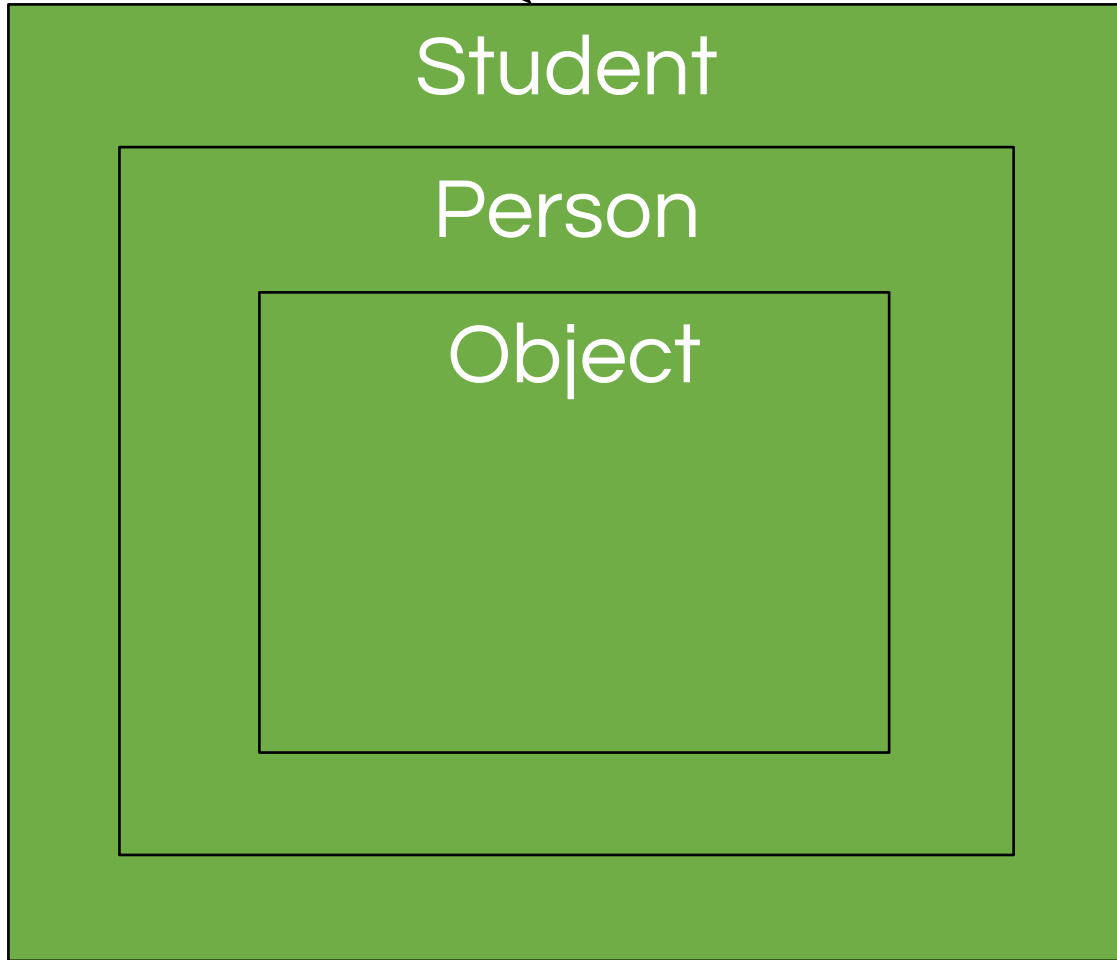


```
Student s = new Student();
```

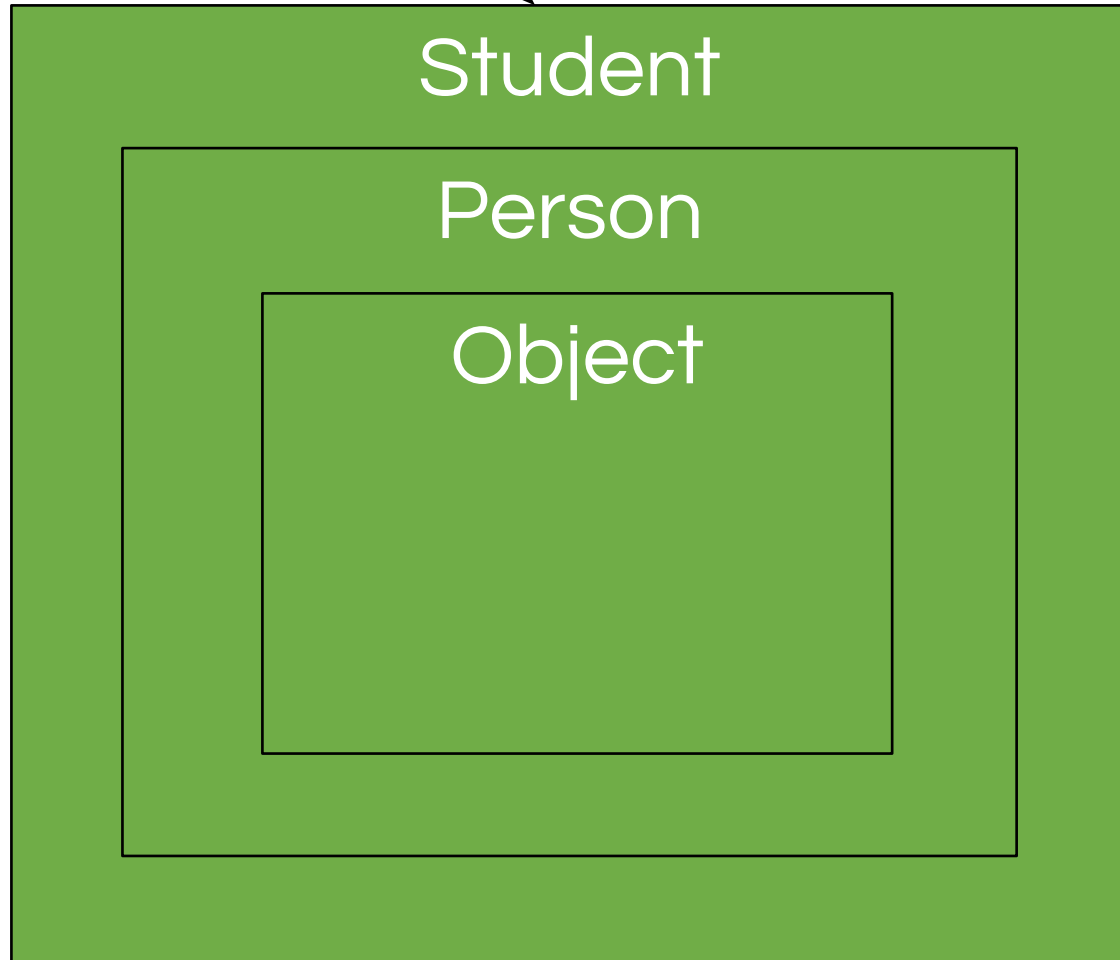
Student

Person

Object



```
Student s = new Student();
```



**Wait, I don't
remember
extending Object...**