

Nov 4<sup>th</sup> 2016 CE

## CP213 Lecture Start

Shape <sup>abstract</sup> implements Comparable, Comparable  
Triangle circle Rectangle  
void setColour(int i);  
int getColour();

Large example on inheritance / abstract methods / Interfaces

### Unusual Interfaces

- ↳ Cloneable → This interface is empty
- ↳ used to declare you will overwrite clone the right way
- ↳ Not enforced by Java but is by eclipse

```
public class A implements C {
```

```
int var1;
```

```
int var2;
```

```
void doIt();
```

```
private class B {
```

```
double Bvar;
```

```
String Bvar2;
```

```
void makeItHappen();
```

```
}
```

```
}  
Outer class has access to instance variables of inner  
& Inner class has access to instance variables of outer
```

can write a helper class

→ w/in a class

→ Normally private

→ Is local to outer class

→ Can call objects of type "B" before or after <sup>inner</sup> class def

→ Can only use in outer class