## CS 213 – Software Methodology

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Access Levels public, private, package, protected

## Access Levels/Visibility

```
package abcpackage;

public class A {
    private int apriv;
    protected int aprot;
    int apack;
    ...
}
```

```
package abcpackage;

class B {
   int bpack;
   public void m() {
      A a = new A();
      a.aprot=10;
}
```

```
package abcpackage;

class C extends B {
  public void m() {
    A a = new A(); not ok,
    a.apriv = 10; private
    a.apack = 15;
    B b = new B(); ok, same package
    bpack = 5;
    ok, same package, inherited
}
```

```
package defpackage;
import abcpackage.*;
public class F
  extends A {
  public void m() {
    A a = new A();
    a.aprot=5;
  }
}
apackandaprot
are not visible via a
```

```
package defpackage;
import abcpackage.*
public class E {
    B b;
}
B in different
package, not visible because it
Is declared as package level accessible only
```