

Information Hiding

```
class DerivedClassName: access_specifier BaseClassName{  
    //.....  
}
```

- *Access-specifier*: {public, protected, private}
 - Default (no *access_specifier*) = private
- Public Inheritance, Protected Inheritance, Private Inheritance
- Access control rule: effect = the stricter one of *access* and *base*

| <div>access base</div> | | <i>public</i> | <i>protected</i> | <i>private</i> |
|----------------------------|------------------|------------------|------------------|----------------|
| | | <i>public</i> | <i>protected</i> | <i>private</i> |
| <i>public</i> | <i>public</i> | <i>protected</i> | <i>private</i> | |
| <i>protected</i> | <i>protected</i> | <i>protected</i> | <i>private</i> | |
| <i>private</i> | NO | NO | NO | |