

// other methods here We're just about to fill these in.

The Façade Pattern The Façade Pattern provides a unified interface to a set of interfaces in a subsystem. Façade defines a higher-level interface that makes the subsystem easier to use. A Sidebar: The Principle of Least Knowledge As a general design principle, you should reduce the interactions between objects to just a few "close friends" • Be careful of the number of classes an object interacts with and also how it comes to interact with those classes · Prevents creating designs that have a very high degree of coupling among classes (these systems are much more fragile) · General guidelines: · Only invoke methods that belong to · The object itself · Objects passed as parameters to the method · Any object the method creates or instantiates · Any components of the object · Do not invoke methods on objects that were returned from calling other methods! Example public float getTemp() { Thermometer thermometer = station.getThermometer(); return thermometer.getTemperature(); Here we get the thermometer object from the station and then call the getTemperature() method ourselves. public float getTemp() { With the return station.getTemperature(); Principle When we apply the principle, we add a method to the Station class that makes the request to the thermometer for us. This reduces the number of classes we're dependent on. Principle of Least Knowledge · a.k.a. Law of Demeter Advantages · Reduces dependencies between objects, which has been demonstrated to reduce maintenance costs Disadvantages · Results in more "wrapper" classes to avoid method calls to other components · This can result in increased complexity and development time

