

Refactoring Course

“Bad Smells in Code”

Code Smell	Description
Duplicate Code	Name tells all....you have duplicate code that you want to remove.
Long Method	If it is too long, break it up into smaller pieces.
Large Class	Big bloated class doing many different thing....consider breaking it up.
Long Parameter List	Many parameters being passed around...Use Replace Param with Method.
Divergent Change	Each change requires changes to many methods...might need a new object.
Shotgun Surgery	A change requires many changes to many classes...Move Method or Field.
Feature Envy	Method in one class is always interested in another class...Move Method.
Data Clumps	Sets of data is always used together....put them together in same object.
Primitive Obsession	Too many primitive data types....use more real objects like Address
Switch Statements	Many case statements...replace with objects or move methods.
Parallel Inheritance	Two class hierarchies are tightly coupled....remove delegation.
Lazy Class	Class is not really doing much work...move methods and fields.
Speculative Generality	Trying to generalize where you are not ready to generalize.
Temporary Field	Have a field that is only sometimes set...use a subclass for that case.
Message Chains	Chaining many messages for a result...use hide delegation to remove.
Middle Man	A middle class does little work between classes.....remove the class.
Inappropriate Intimacy	Two classes are tightly coupled and working too closely...separate changes.
Incomplete Lib Classes	Not enough function in library...use add foreign method to add to classes.
Data Class	Dumb data holder classes so either add methods working on data or move fields to where the data is being used.
Refused Bequest	Inheriting too much behavior you don't need...push down where it belongs.
Comments	Methods with many comments...similar to large methods....extract method.