Cheatography

CPSC501 Cheat Sheet by Heavenel via cheatography.com/56321/cs/20996/

Bloaters				Refactoring	Benefits	
Long Method	Too many lines of code.	1, [Replace Temp with Query, 3, 4], [Replace Method with Method Object], [Decompose Conditional, 1]		 Improves code organization. Reduces code duplication. Simplifies support. Can improve organization of code. Easier maintenance. Code becomes more flexible Better Code Readability 		
Large Class	Class contains many fields/me- thods/lines of code.	Extract Extract Interface, Duplicate Observed Data Replace Data S Value with g Object, [3 or Object, [3 or ion. 4], [Replace Type Code with S Class, of Subclasses or State], Replace	Alternative Classes with Different Interfaces	functions Add but have Parameter,	Rename Methods, [Move method, Add Parameter, Parameterize	
Obsession consta for coo inform Use o primiti instea small object	Use of constants for coding				method names.	Method], Extract Superclass
	objects for simple			Refused Bequest	Subclass uses only some of the methods and property	Replace Inheri- tance with Delegation, Extract Superclass
Long Parameter List	Parameter three or Parameter with		Switch Statements	Complex switch operator	Replace Conditional with Polymo- rphism, Ex	
			Temporary Field	Get their values only under	Extract class, Replace Method with	
Data Clumps	Different parts of the code contain identical groups of variables	2, 3, 4. 1. Extract Method 2. Extract Class 3. Introduce Parameter Object 4. Preserve Whole Object			certain Method Obje circum- stances	Method Object
				Incorrect application of object-oriented programming principles.		

Change Preventers Divergent Change many unrelated Change methods when you make changes to a class. Parallel Whenever you create a Inherisubclass for a class, you find tance yourself needing to create a subclass for another class. Hierarchies Shotgun Making any modifications Surgery requires that you make many small changes to many different classes. Need to change something in one place in your code, you have to make many changes in other places too. Dispensables Comments A method is filled with explan-

	atory comments.	
Duplicate Code	Two code fragments look almost identical.	
Data Class	Class that contains only fields and crude methods for accessing them. Don't contain any additional functionality and can't independently operate on the data that they own.	
Dead Code	A variable, parameter, field, method or class is no longer used	
Lazy Class	Class doesn't do enough to earn your attention,	

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Dispensables (cont)

SpeculativeThere's an unused class, method, field orGeneralityparameter.

Something pointless and unneeded whose absence would make the code cleaner, more efficient and easier to understand.

Couplers						
Feature Envy	A method accesses the data of another object more than its own data.	Move, Extract Method				
Inappr- opriate Intimacy	Uses the internal fields and methods of another class	[Move Method and Field], [Extract Class and Hide Delegate], [Replace Delegation with Inheritance]				
Incomplete Library Class		[Introduce Foreign Method or Local Extension]				
Message Chains	a->b()->c()->d()	Hide Delegate, [Extract Method and Move Method]				
Middle Man	Class only delegates work	Remove Middle Man				
Excessive coupling between classes						

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