

BAD SMELLS

BLOATERS
CHANGE PREVENTERS
COUPLERS
TOOL ABUSERS
DISPENSABLES

código, métodos y clases que podrían crecer rápidamente
cambio que conlleva cambios en otros lados
contribuye al alto acoplamiento
abusa o usa mal los principios de la POO
algo sin sentido y la ausencia haría un código más limpio

BAD SMELL

REFACTORING QUE LO CORRIGE

long method
large class

extract method, descompose conditional, replace temp with query,
extract class, extract subclass

data clumps

extract class, introduce parameter object, preserve whole object

long parameter list

replace parameter with method, preserve whole object, introduce
parameter object

primitive obsession

replace data value with object, introduce parameter object, replace array
with object

divergent change
shotgun surgery

extract class
move method/ field

feature envy
inappropriate intimacy
message chains
middle man

move method
move method/ field, self encapsulate field
hide delegate, extract method, move method
remove middle man

switch statements
refused bequest
alternative class
temporary field

replace conditional with polymorphism
push down method/ field
rename method
extract class, replace method with method object

lazy class
speculative generality
data class
duplicate code
comments

inline class, collapse hierarchy
collapse hierarchy, inline class, remove parameter
move method
extract method, pull up method, form template method
extract method, rename method