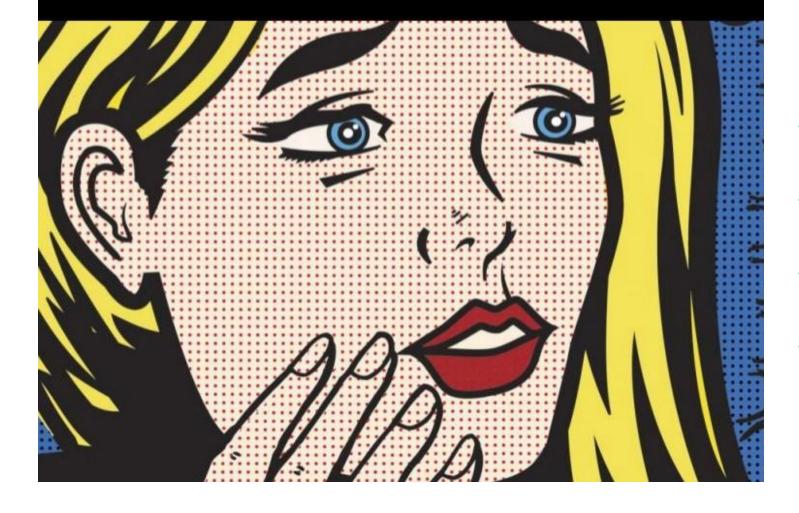


### **EXCUSE ME BUT...YOUR CODE SMELLS**



# What is a code smell?

- Characteristic/trait in source code
- Can be used as a driver for refactoring
- Should be considered on a case by case basis
- "Rules are for the guidance of the wise and the obedience of fools."

Douglas Bader

#### What we want?

- Maximize cohesion
- Minimize coupling
- Within reason...some coupling is unavoidable



## Coupling

Cohesion

### Categories

- Bloaters
- Change Preventers
- Object-Orientation Abusers
- Dispensables
- Couplers







A Self- Assessment Tool

## AMIAN ABUSER?

```
/**
  * Always returns true.
  * @return bool
  */
public boolean isAvailable() {
    return false;
}
```

```
string owner = ClaimsPrincipal.(
                     Todo xtodo = db.Todoes.First(a =
4970
                     if (todo != null)
4971
                         xtodo.Description = todo.Des
4973
                         db.SaveChanges();
4974
4975
4976
4977
                 // DELETE: api/TodoList/5
4978
                 public void Delete(int id)
4979
                     string owner = ClaimsPrincipal.C
                     Todo todo = db.Todoes.First(a =>
                     if (todo != null)
                         db.Todoes.Remove(todo);
```







### Bloaters

- Long Method
- Large Class
- Primitive Obsession
- Long Parameter List
- Data Clumps

WHAT'S THAT SMELL? 2023 5

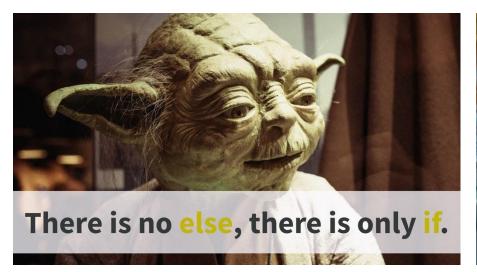
## Change Preventers

- Divergent Change
- Shotgun Surgery
- Parallel Inheritance Hierarchies













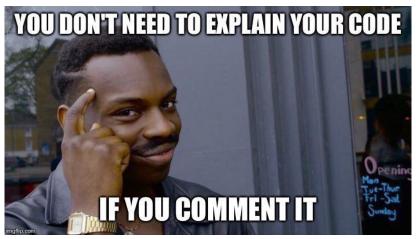


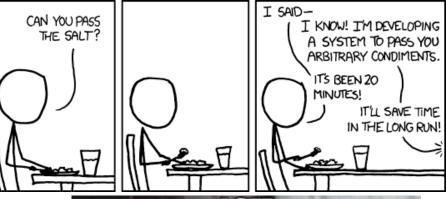
## Object-Orientation Abusers

- Switch Statements
- Temporary Field
- Refused Bequest
- Alternative Classes with Different Interfaces

### Dispensables

- Comments
- Duplicate Code
- Lazy Class
- Dead Code
- Speculative Generality









#### THE LAZY HUSBAND

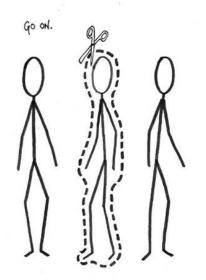


HOW TO GET MEN TO DO MORE PARENTING AND HOUSEWORK









CUT OUT THE MIDDLE MAN.

## Couplers

- Feature Envy
- Inappropriate Intimacy
- Message Chains
- Middle Man



## Thank you

WHAT'S THAT SMELL? 2023 10