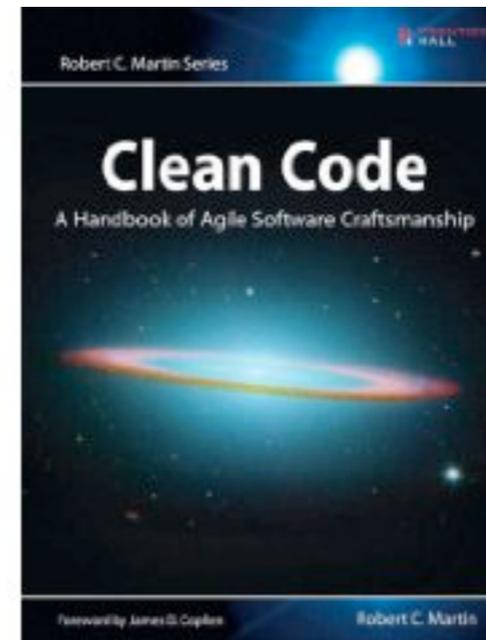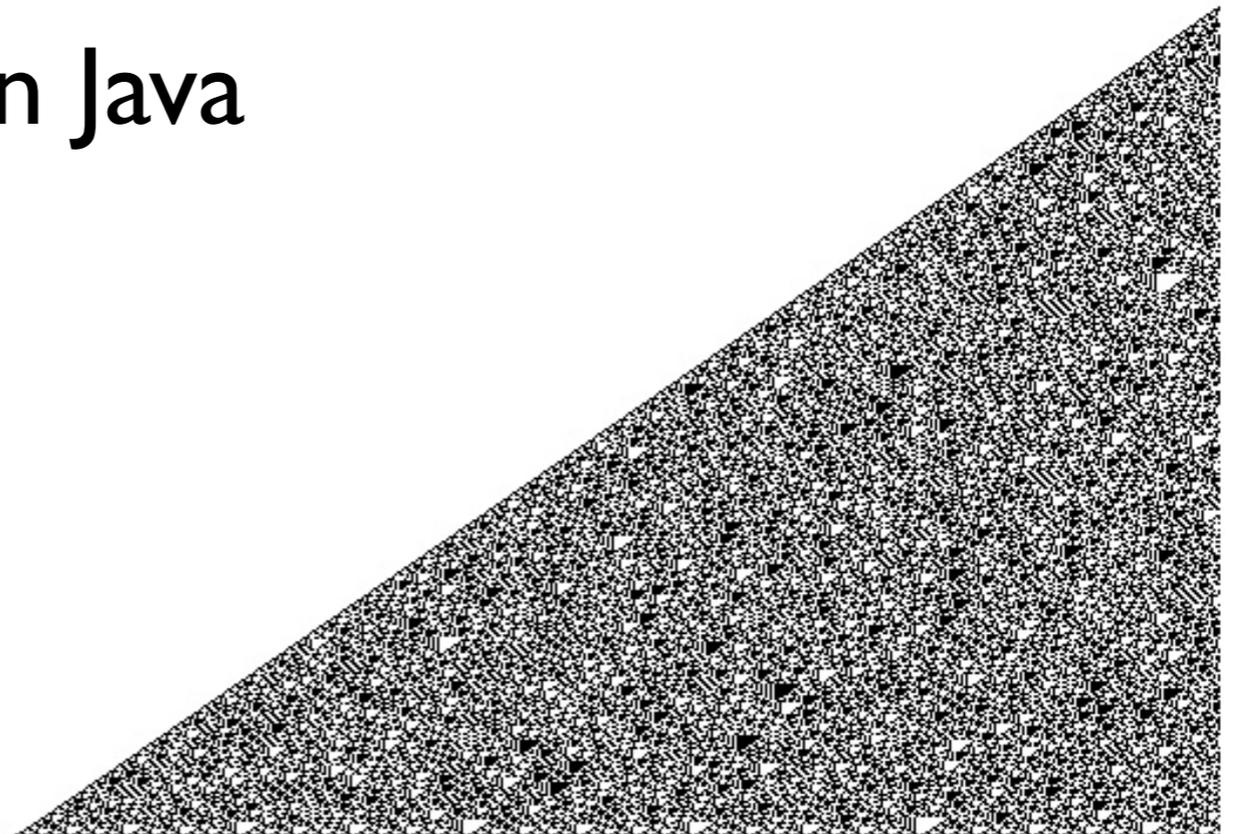# Programming in the Small

Ivan Moore & Mike Hill

Our Philosophy

- Write readable code

- Care about the detail

- Make it routine

- It's important

Explanation by Example

- Mini-series of programming episodes
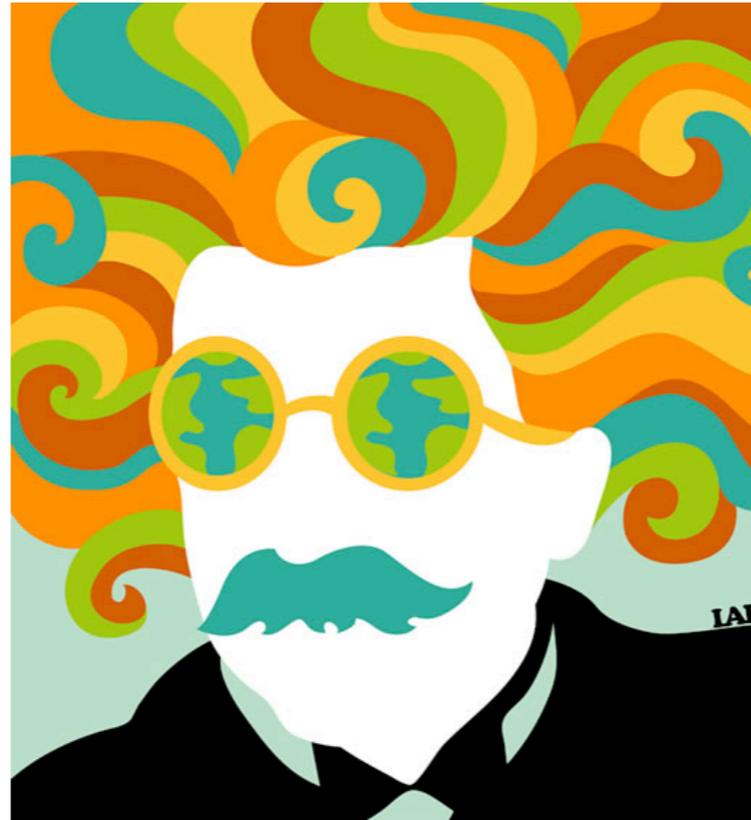
- Interactive demo in Java

1. "Where to Start?"

- Pair up

- Look at the 1st example, **Checker.java**

- Read through the code, and think about what you'd like to do to it...

Thoughts?

PITS Lessons (1)

- Start with small improvements:

    - Convert comments into code

    - Fix the formatting

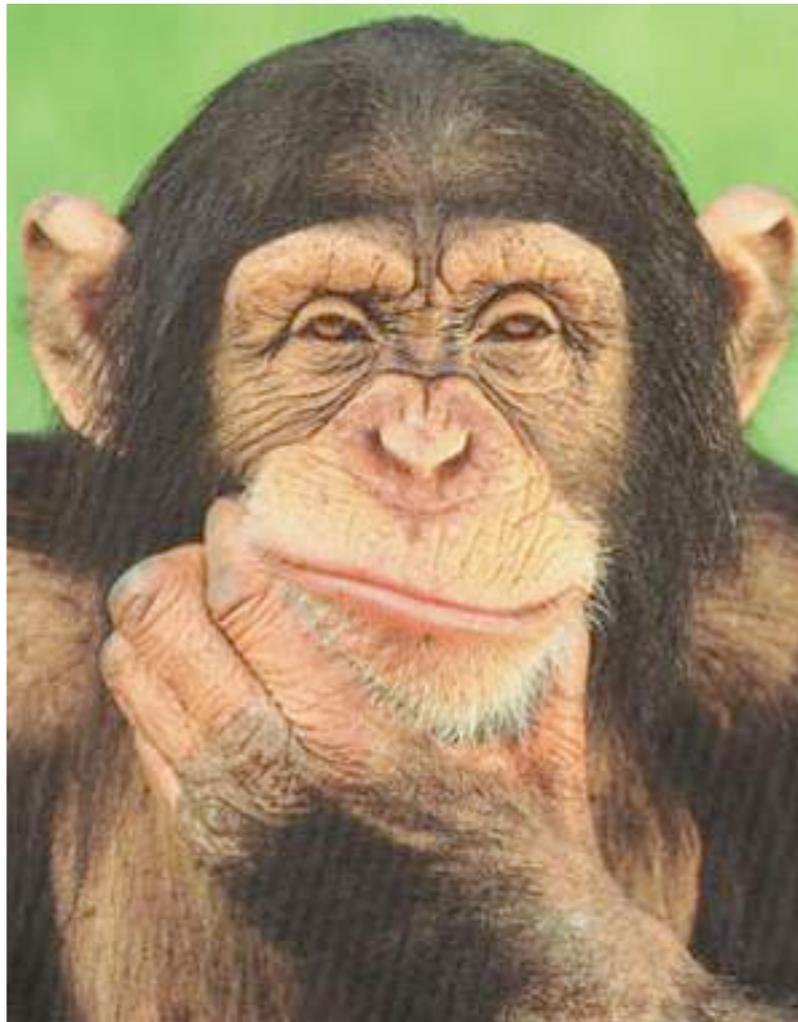   - Remove unnecessary code (use the IDE to warn you about this)

2. "When to Stop!"

- Pair up

- Look at the 2nd example, **Args.java**

- If you owned this code, what would you do to it?

Thoughts?

PITS Lessons (2)

- Attempt to remove all duplication - even if small

- Multiple exits can improve readability (breaking structured programming rules)
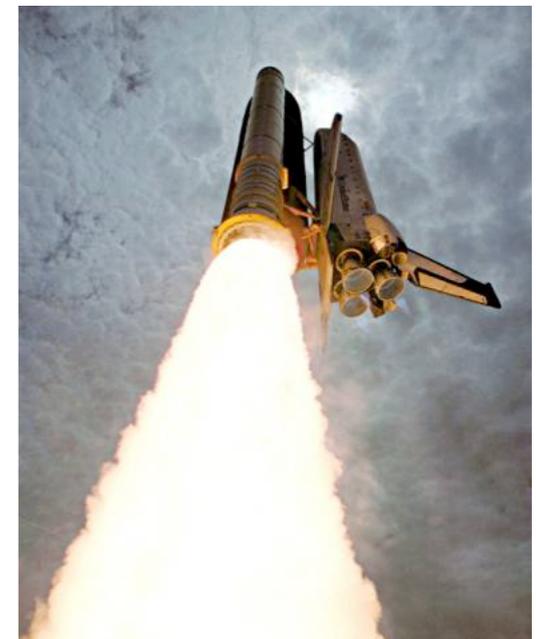
- Make declarations as local as possible

3. "Don't stop now!"

- Pair up

- Look at the 3rd example, **BusinessDay.java**

- Does this look ok to you?

Thoughts?

PITS Lessons (3)

- Simplify your conditionals

- Removing duplication sometimes requires the creation of tiny function/policy objects
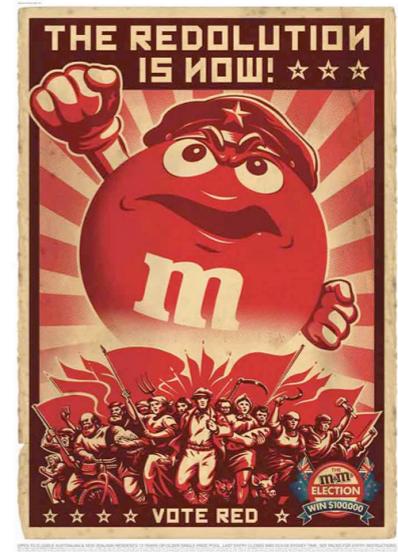
Extra PITS

- Be discreet - keep your privates private

- Avoid statics and NoJos in favour of objects with behaviour
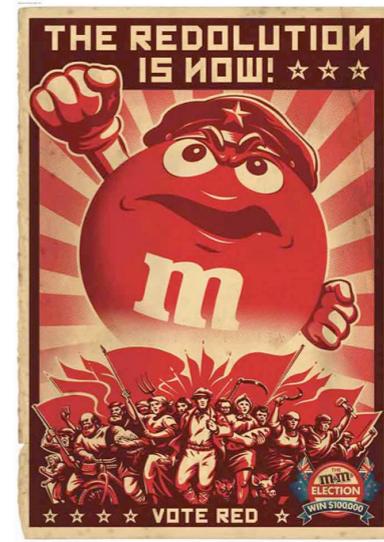
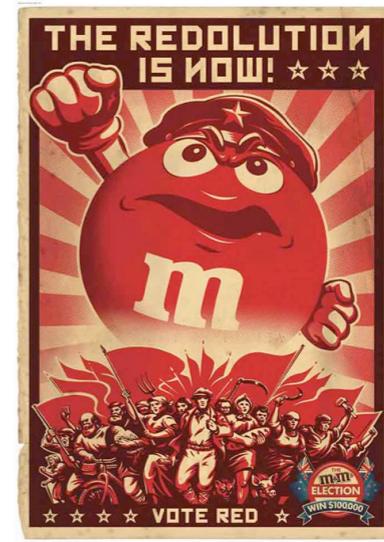- Hide your primitives inside domain objects

Recap...

Recap...
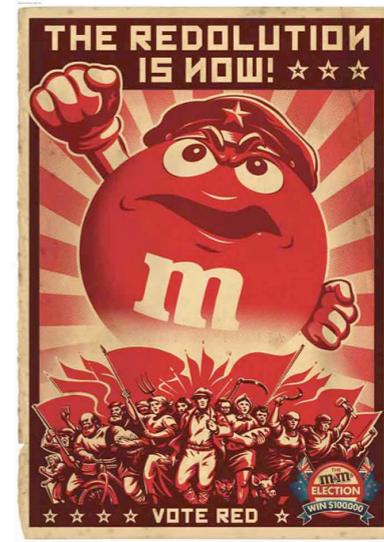
★ Don't write pointless comments

Recap...

★ Don't write pointless comments
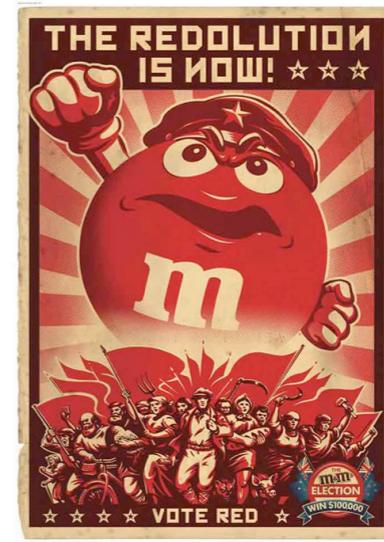
★ Fix your formatting - show that you care

Recap...

★ Don't write pointless comments

★ Fix your formatting - show that you care

★ Turn up your warnings and delete more code

Recap...

★ Don't write pointless comments

★ Fix your formatting - show that you care

★ Turn up your warnings and delete more code
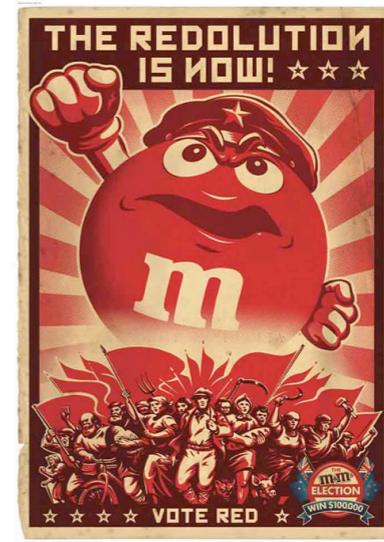
★ Remove the little bits of duplication

Recap...

★ Don't write pointless comments

★ Fix your formatting - show that you care

★ Turn up your warnings and delete more code

★ Remove the little bits of duplication

★ Break stupid structured programming rules

Recap...

★ Don't write pointless comments

★ Fix your formatting - show that you care

★ Turn up your warnings and delete more code
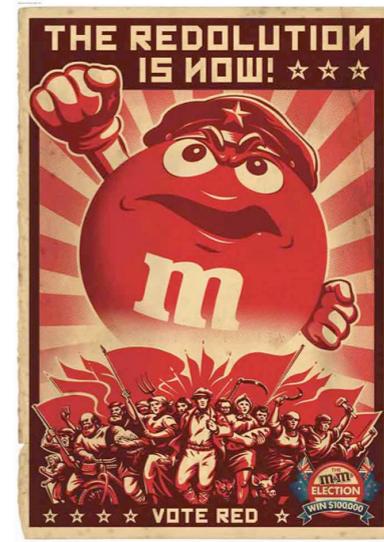
★ Remove the little bits of duplication

★ Break stupid structured programming rules

★ Keep your scoping local and private

Recap...

★ Don't write pointless comments

★ Fix your formatting - show that you care

★ Turn up your warnings and delete more code

★ Remove the little bits of duplication
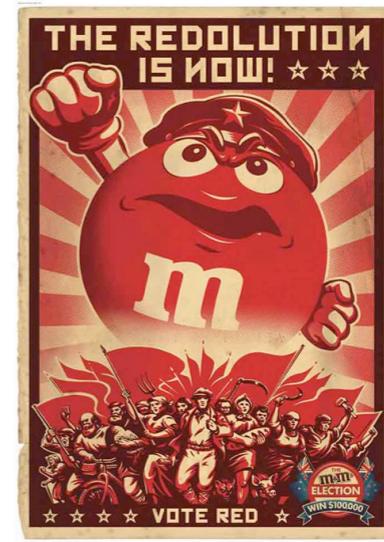
★ Break stupid structured programming rules

★ Keep your scoping local and private

★ Write domain objects with behaviour

It's the PITS!

Ivan's blog :: http://puttingtheteaintoteam.blogspot.com/
PITS articles :: http://ivan.truemesh.com/archives/cat_programming_in_the_small.htm
Contact us :: mike@exdriven.co.uk and ivan@teamoptimization.com