

Application Programming G52APR

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Lectures and Labs

Lectures

Tuesday 15:00
(LT2)

Thursday 17:00
(LT2)

Labs

Tuesday
16:00

Friday
15:00

Introduction

- Writing Programs in an OO-fashion
- Application Developers Point-of-View
- Technology and Methodology
- i.e. practice Java and “programming” skills
 - (inc design, debugging, testing documenting etc etc)
- Emphasis on practical aspects
 - Fewer lectures, more in labs

Assessment

- 100% Coursework
- Designing and Implementing an HTTP 1.0 server in 4 parts (see Moodle)"
- cw0 optional but introduces much that is used later.

Labs

- Start Friday week 2 (see Moodle)
- There will be 8 lab assistants – go to any
- May have help desks near deadlines.

Plagiarism

- DON'T

Help Sources

In no particular order...

- Lectures
- Labs
- Moodle
 - Notes
 - Forum
- Steve Nutbrown
- Colin Higgins
- Each other (but be careful of plagiarism)

G52APR Module

- Introduced into new syllabus in 2010
- No prior exams, but not to worry – there is no exam!
- More details on the coursework later, but you will be developing a larger piece of software – a HTTP server.

Potential Content?

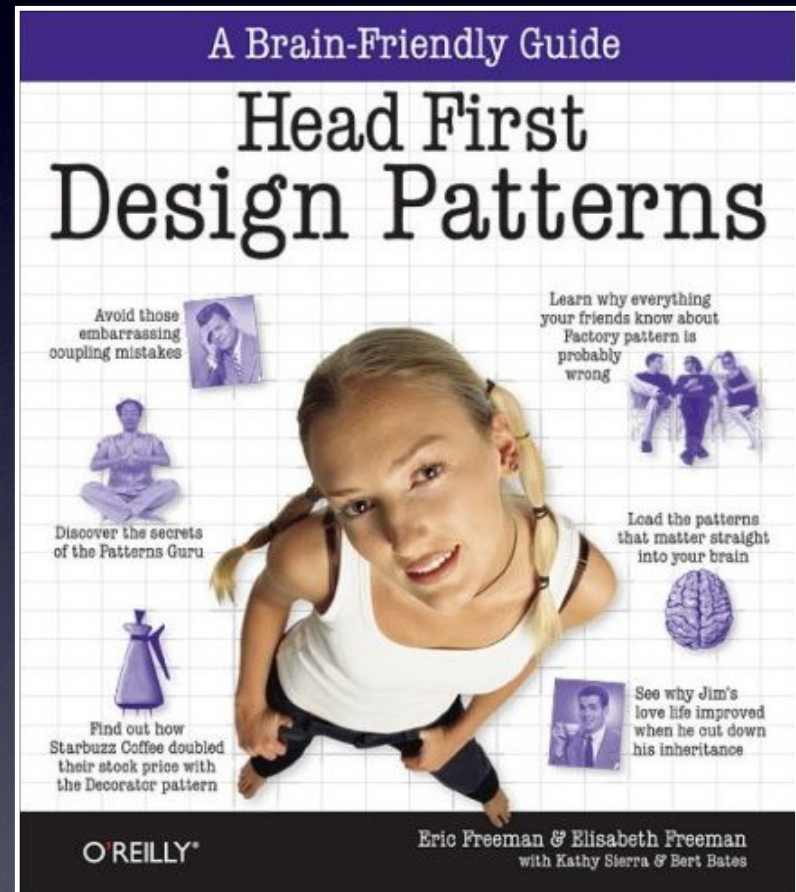
- Introduction
- OO paradigm and workings
- OO Recap
- Class Design
- Design Patterns
- Exceptions/testing
- Networking
- Threading
- Collections
- Databases - JDBC

Resources

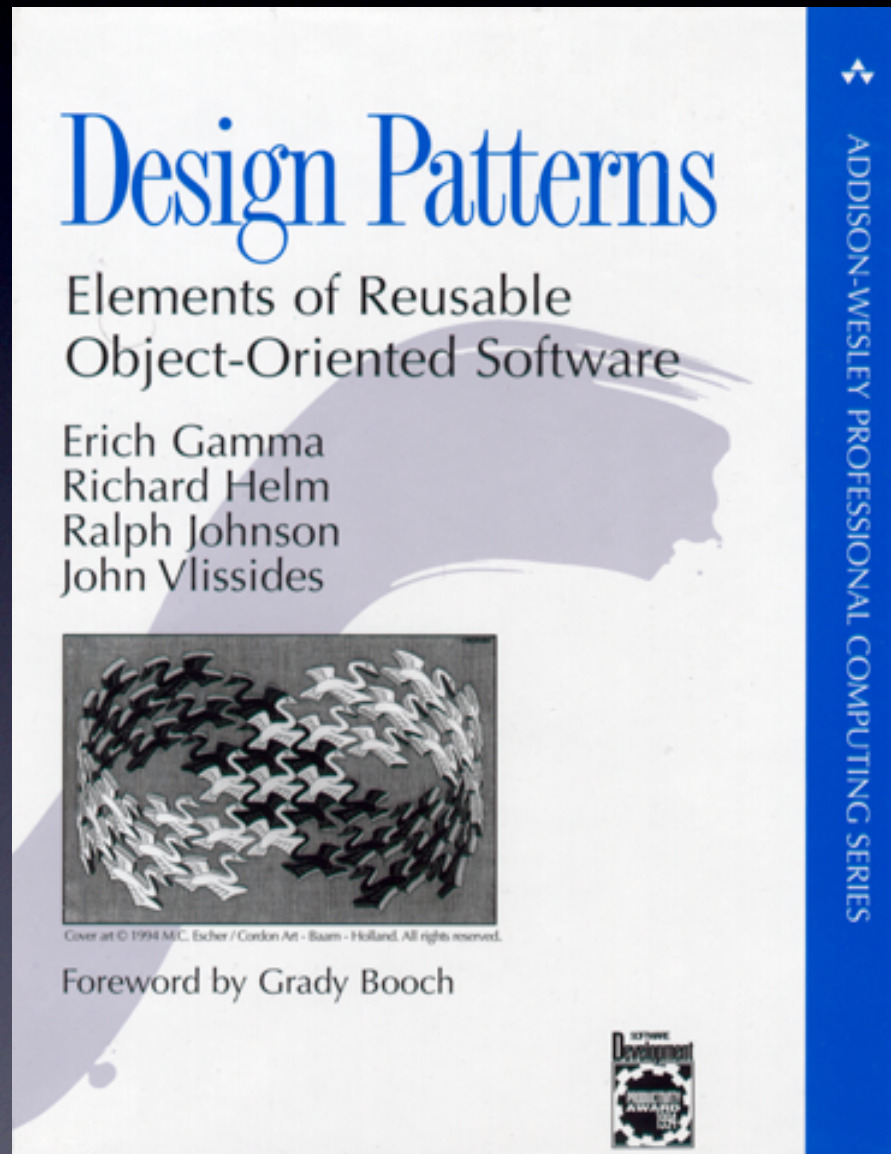
- Use Google for now – sun java docs are excellent
- Books should only be bought if you are struggling.
- Lecture notes will be available, but may only be ready the day before as some sections are new to the lecturer and many have updated content.
- Eclipse

Resources

- **Head First Design Patterns**
Eric and Elisabeth Freeman
- O'Reilly
- ISBN: 978-0-596-00712-6



Resources



- **Design Patterns**
Erich Gamma
Richard Helm
Ralph Johnson
John Vlissides
- ‘Gang of Four’
The text on design patterns

Resources

- Lecture Notes
will be on moodle

Expectations

- Reasonable mark average for cw based modules in CS
- “Read” for a degree.
- Lots of feedback via TMA and in labs/lectures, but not hand-holding!

Informal Coursework

- Help you review previous java constructs and concepts.
- Help you understand new Java constructs ready for formal coursework.
- Help you see the submission/feedback/marking system.
- Make sure you understand object oriented concepts.

Coursework Pattern

- cw0 – (0%) 1.5 weeks
- cw1 - (30%) 2 weeks
- cw2 - (30%) 3 weeks
- cw3 - (30%) 2 weeks
- cw4 – (10%) 1 weeks
- We expect you to submit Javadoc for formal cw – details with the spec.

The Markers Apprentice (TMA)

- TMA will be used for submission/marketing.
- Fully automatic for cw0
- Partially automatic for formal cw
- Details are linked from Moodle if you are interested. Briefly on board...
- Login at tma.cs.nott.ac.uk
- Login and password will be available next week.

Survey

- You will be emailed a link to a feedback and auto-marking survey.
- This is not mandatory, but it would help to get as many views as possible so please complete.
- A follow up will be available at the end of the module.

Review of final coursework

- Mars Rover

20 Questions...

- If you know the answers to these then you should have no problems...