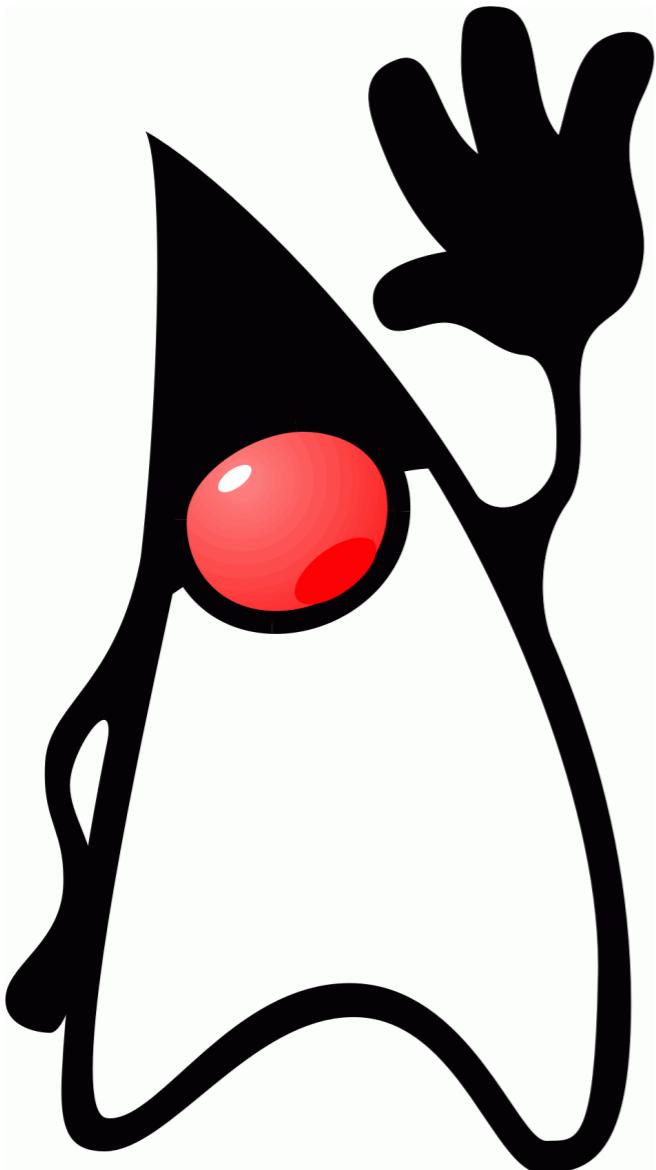


COM1003 Java Programming

Richard Clayton



COM1003
Java Programming
Spring Semester

Objectives

To build on the Java programming skills and understanding you have already gained

To introduce you to ***advanced features*** of Java

- object orientation
- the vast libraries comprising the Java Application Programming Interface (API)

To convert you into self-reliant programmers who can quickly learn to code in any language

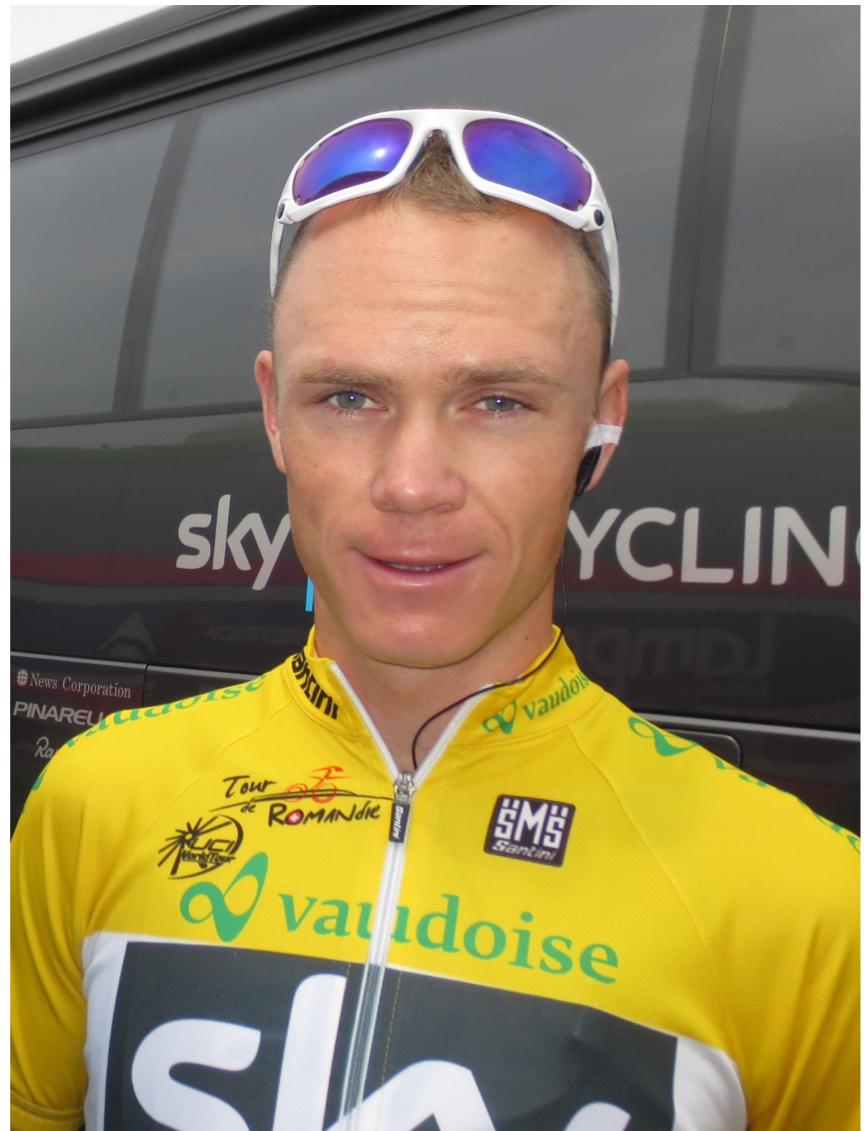
Coding

- “...of undergraduates who qualify across all higher education subjects, **computer science** has consistently had the highest rate of unemployed graduates.”
- What?!
- “...From my experience of supporting computer science students, I am amazed at how many arrive at the end of their final year saying that either they don't know sufficient programming to be able to do a job that involves programming, or that they dislike programming enough that they won't contemplate a job that involves this.”

<http://blog.hefce.ac.uk/2015/07/08/unemployment-among-computer-science-graduates-what-does-the-data-say/>

The Picture Round*

Chris Froome



Winner of Tour de France in 2013, 2015 and 2016

How to succeed at cycling

Listen to instructions from your coach

Work on your technique on the bike, under the supervision
of your coach

Practice, tirelessly, (get on the road at 5am)

How to succeed at cycling



Listen to instructions from your coach

**Watch the videos, look at the slides, do
the self assessment questions**

Work on your technique on the bike, under the supervision
of your coach

Attend the lab sessions, complete each lab sheet

Practice, tirelessly, (get on the road at 5am)

Practice coding as much as possible at home

Different types of students

Some of you will need to work at it

Advice: Don't feel bad and don't let yourself fall behind.

The learning curve may feel steep, but once you're over it, you're only experience away from writing code to an industrial standard.

Others will already think of themselves as experts

Great. This semester will help you become an even better programmer.

Don't fall behind...

Each session builds on the skills and knowledge acquired in the previous week

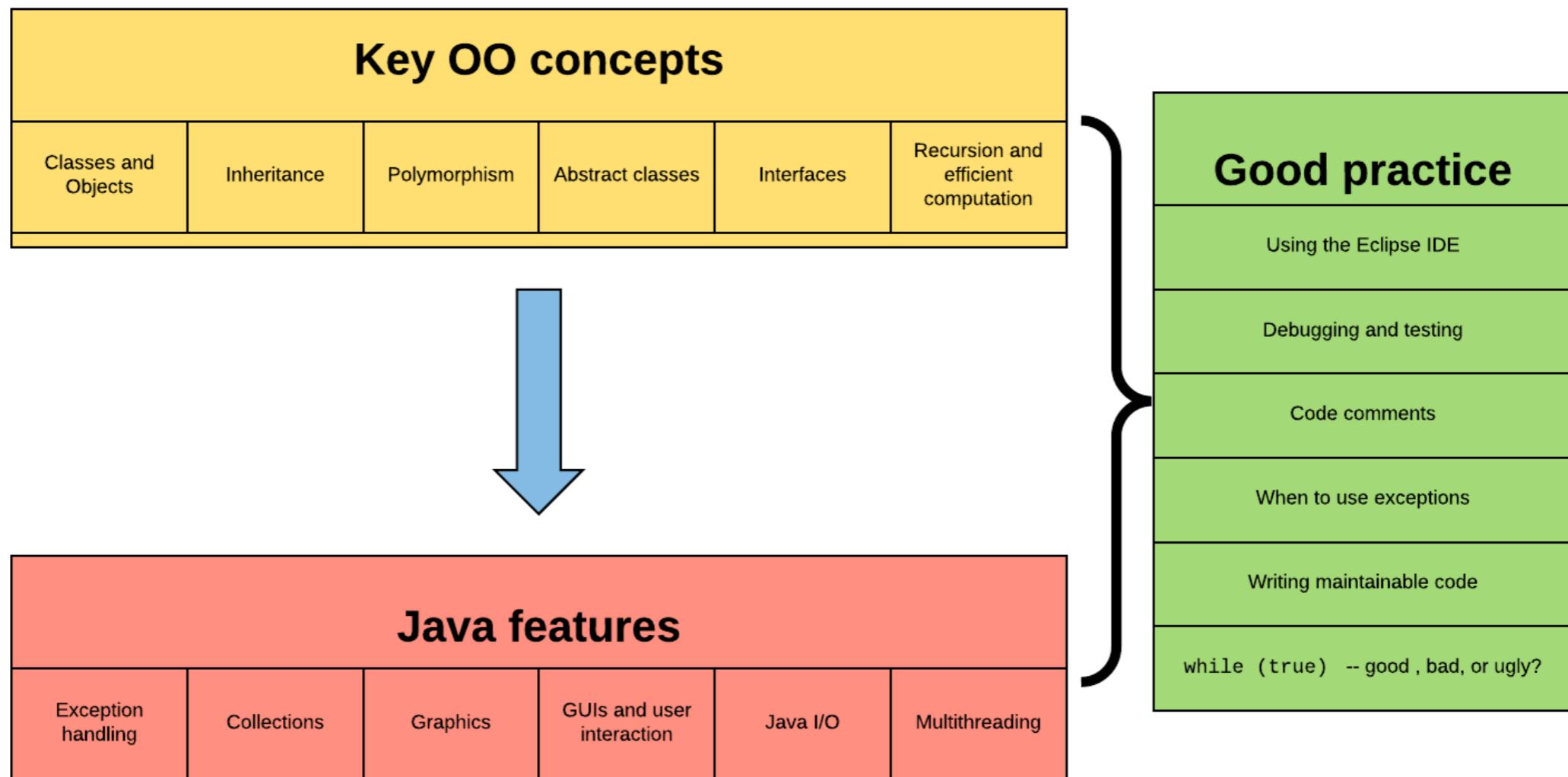
It is ***essential*** that you understand the concepts covered in the first few weeks

Don't play 'Jenga' with Java....



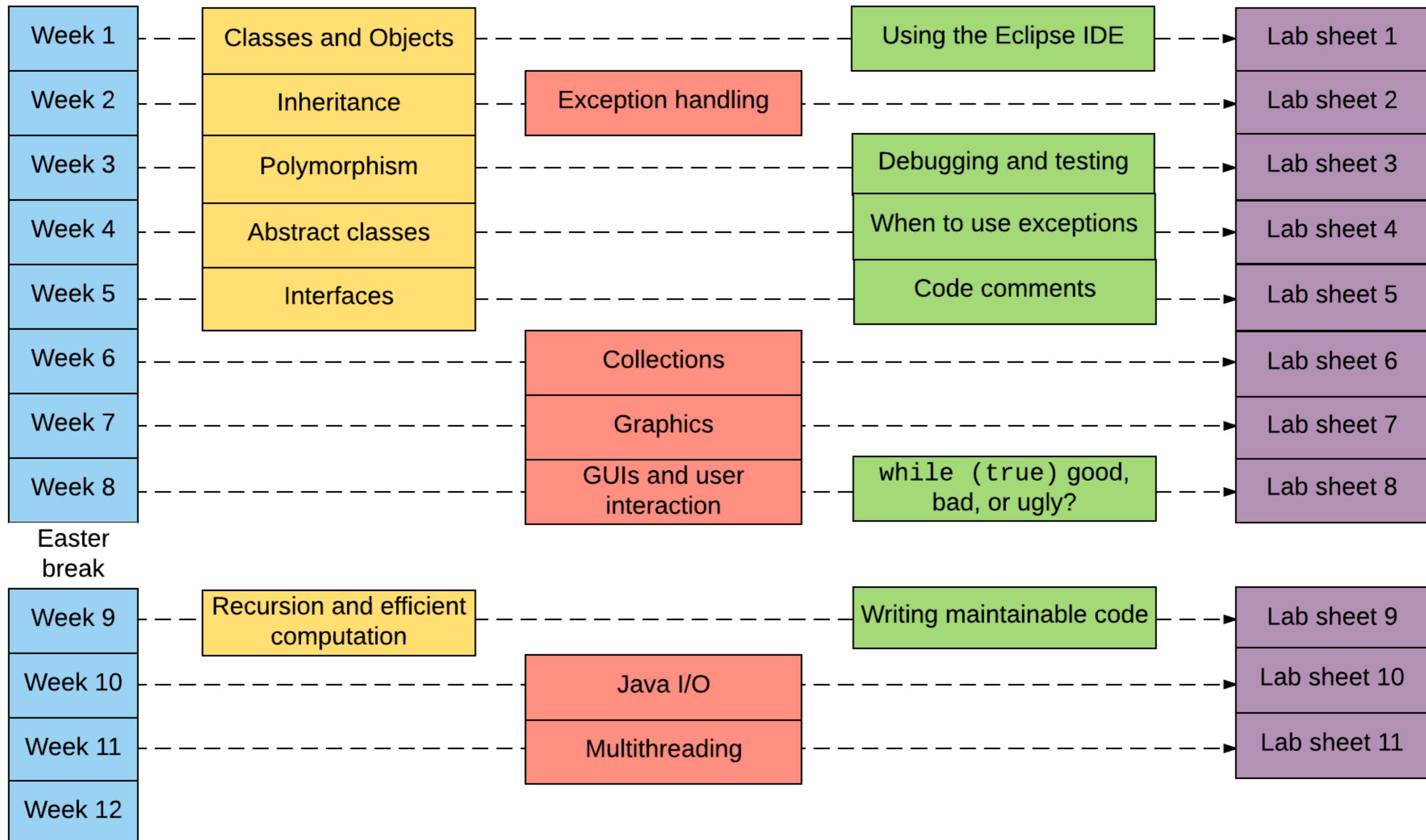
COM1003 Java programming -- Spring Semester

Course components



COM1003 Java programming -- Spring Semester course outline

What you should study, and when you should study it



Assessment

MOLE tests (25%)

- 5 multiple choice tests worth 5% each taking place during certain practical sessions detailed in the course schedule on MOLE
- Each test will feature 5 questions each, and will be of 10 minutes duration under examination conditions.
- Tests are **CLOSED BOOK**
- Be sure to turn up to practical sessions on time - some tests will start at the beginning
- No resits - if you miss a test you should fill in a special circumstances form
- First test **NEXT FRIDAY!**

Written Coding Assessments

Problem Sheets (20%)

- Two problem sheets worth 10% each – available on the web site **NOW**
- You must complete the problem sheets, then explain what you have done to a demonstrator in a lab class.
- You are awarded marks based on **WHEN** you do this (not how you did it, since everyone will have to complete the sheets to the same minimum standard).
- Following sign-off with a demonstrator, you need to upload your documents to MOLE

Problem Sheet 1	Problem Sheet 2
Week 1/2 – 10	Week 3/4 – 10
Week 3 – 7.5	Week 5 – 7.5
Week 4 – 5	Week 6 – 5

Written Coding Assessments

Assignment (55%)

- A longer coding assignment with 2 hand-in stages. More details to come.

Tasks for Week 1

- Locate the COM1003 web page on MOLE
- Watch the Objectville videos and complete the self assessment questions
- Look at the notes, and get to grips with Eclipse
- Download the course code and begin work on first lab sheet