

# Advanced Programming (IT)

Dr. Simon Rogers (simon.rogers@glasgow.ac.uk, @sdrogers)

January 2017

Formalities

Aims & timetable

## Formalities

# Assessment

- ▶ 70% exam
- ▶ 30% coursework
- ▶ More details on both to be confirmed

# Lectures and labs

- ▶ All sessions on Tuesdays!
- ▶ 11-13: Lecture
- ▶ 14-15: Lab

# Venues

- ▶ Please check MyCampus for up-to-date lecture Venues
- ▶ Note: MyCampus will have a venue for the 2-3 session. Ignore this, it's in the lab

# Etiquette

- ▶ I will write example programs in the lectures
  - ▶ Feel free to bring laptops and do the same
- ▶ I'm very happy to address additional topics that you come across in your projects
- ▶ I'm also happy to answer lab questions in the lectures
  - ▶ Can't answer many questions in a one hour lab
- ▶ Ask questions any time. . . .
  - ▶ In class, labs or Moodle forums
- ▶ Will go through lab exercise in next lecture
- ▶ Office hour: we need to co-ordinate an hour where you and I are both free. . .

# Texts

- ▶ Big Java
  - ▶ I'm using 3rd ed.
  - ▶ I also have 5th Ed (early objects)
  - ▶ In recent editions, useful stuff is online only!
- ▶ Most things you need can be found in the online Java documents.
- ▶ I don't think it is essential to buy a book for this course



# Contact

- ▶ `simon.rogers@glasgow.ac.uk`
- ▶ Room S123, Lilybank Gardens
- ▶ Moodle forums

Aims & timetable

# Aims

- ▶ Build on semester 1 Java
- ▶ Develop a *deeper* understanding of programming (in Java)
- ▶ Design and write lots of code from scratch
- ▶ Be familiar with advanced concepts required in many applications including:
  - ▶ Threading
  - ▶ Distributed systems

# Main Topics

- ▶ Semester 1 recap and Java basics
- ▶ Concurrency
- ▶ Distributed systems
- ▶ Design patterns