COMP10001 Foundations of Computing
Welcome and Introduction

Semester 2, 2018

Chris Leckie & Nic Geard

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Lecture Agenda

- Who (are the lecturers/tutors/demonstrators)?
- What (is the subject all about)?
- Where (do I go and When)?
- How (do I get started)?
- How (does the assessment work)?
- What (if I have done a bunch of coding already)?

Who? — The Lecturers

- Nic Geard
  - weeks 1–4
  - office: DMD 6.18 (level 6 of Doug McDonell Bldg)

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- Chris Leckie
  - weeks 5–12
  - office: DMD 7.11 (level 7 of Doug McDonell Bldg)

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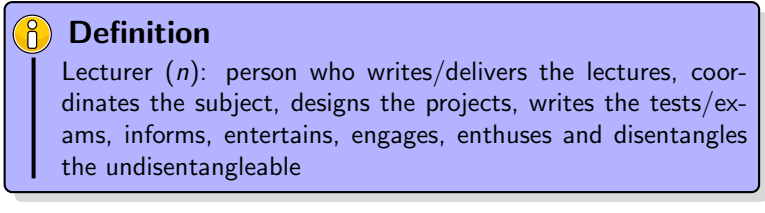

Who? — The Tutors

- Marion Zalk (staff tutor)
- Mariam Shahid (head tutor)
- Baani Ahluwalia
- Minh Tuan Doan
- Abigail Yuan
- Taylor Johnston
- Alice Johnson
- Nicholas Smith
- Meng Yang
- Ahmad Asgharian Rezaei
- Luca Kennedy
- Jie Jenny Yan

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Definition

Tutor (*n*): person who runs the workshops, helps with the marking, provides sagacious advice on subject-related matters, reinforms, empathises, explains, endures (the lecturers) and helps decipher the undecipherable

Who? — The Demonstrators:

- Weijia Wang
- Raisa Litchfield
- Angel Yuan
- Kuan Qian
- Jie Jenny Yan
- Sara Kardani Moghaddam
- Brett Eskrigge
- Aili Shen
- Bridget Loughhead
- Li Li
- YiFei Wang
- Nicholas Josef Mika

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Definition

Demonstrator (n): person who aids the flagging tutor in running the lab component of the workshops, possibly helps with the marking, provides sagacious advice on subject-related matters, rereinforms, empathises, explains, endures (the lecturers and tutors) and helps decipher the undecipherable version of the undecipherable

What (is the Subject all about)?

- Harnessing computation for problem solving
- Fundamental programming constructs
- Data manipulation
- Elements of maths, engineering, logic, design; dollops of creativity
- Concerned with theories, principles, limits of computation and information
- If you enjoy puzzles, argument, philosophy and games ... oh and *fun*, you've come to the right place!

What (is the Subject NOT about)?

- Learning to use word processor or spreadsheet software
- Designing web sites
- Computer hardware

Let's Play ...

- Example: Word puzzle

Python

- Easy to learn: interpreted language; interactive experimentation
- Free; open source (`python.org`)
- Highly readable
- Cross-platform compatible
- Powerful, extensive libraries
- Widely used in industry, science, education, entertainment ...
- We will use Python v3.6 via Grok Learning

Where and When

- Lectures (three per week):

Wed	9:00–10:00	(Carillo Gantner Theatre)
Wed	13:00–14:00	(MSD B117)
Fri	13:00–14:00	(MSD B117)

  Most weeks, there will be two 'content' lectures each week, with the third lecture rotating between a guest lecture, a revision lecture, and an advanced lecture

- Workshops (one per week)
  - 2 hours
  - first part is a tutorial, second part is programming lab
  - start in **Week 2 (NO WORKSHOPS THIS WEEK)**

Female-only Workshop

- We will be running one **female-only** workshop as a pilot this semester (with teaching staff also all-female), in response to student/student club feedback last year, on **Mondays 11:00-13:00**
- Same content, same pace as other workshops, just different sub-cohort of students
- If you **identify as female** and are interested, email us and we will manually enrol you:

  `comp10001s2-lecturers@lists.unimelb.edu.au`

How do I Get Started?

- Check out the LMS:
  `http://www.lms.unimelb.edu.au`
- Log in to Grok Learning:
  `https://groklearning.com/course/unimelb-foundations-2018-s2/`
- Lecture slides, lecture recordings and code snippets from lectures will be made available from the lectures/workshops page on the LMS
- Take a look over the schedule for the subject

Assessment I

- Your subject mark will be made up of:
  - Interactive Grok Learning worksheets: 10%
  - Projects ($\times 3$): 30%
  - Mid-semester test: 10%
  - Final exam: 50%
- There will be rolling deadlines for Grok Learning worksheets, as listed on the LMS, with the cutoff for the set of worksheets released each week being 23:59 Monday of the next week (unless otherwise stated)

Assessment II

- There are two "hurdles" for the subject: you must achieve at least 50% for the projects/interactive worksheets AND at least 50% for the mid-semester test/final exam

  If you fail **either** component, you will fail the overall subject

Proficiency Test

- Available for those who have a strong computational/programming background (in any language)
- Successful completion of the test will allow you to go straight into COMP10002 Foundations of Algorithms, or equivalent
- Will be held **TOMORROW** (Thursday 26 July)
- Email the lecturers **TODAY** if you are interested in sitting the test:

  `comp10001s2-lecturers@lists.unimelb.edu.au`

How do I Get Help?

- Make use of help within Grok (details on Wed)
- Post a question to the Grok forums
- Talk to your tutor/demonstrator during your workshop
- Talk to the lecturer after the lecture
- Come along to the revision lectures

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- Come along to the revision lectures
- If you are struggling with the subject, don't be shy about asking for help; similarly if you are experiencing documentable hardship and unable to meet submission deadlines, let us know **at the time**

Things to do this week

- Make "compadre" friends
- sign up for a workshop, but...
- **DON'T** go to a workshop **THIS WEEK**
- Check that you can access the subject LMS site
- ~~Check that you can log in to Grok (using `USERNAME@student.unimelb.edu.au` as your username, and your university password)~~
- ~~Post to the Grok forum (personal testimonial, computing-related material, ...)~~