

COMP10001 Foundations of Computing

Welcome and Introduction

Semester 1, 2019
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Who?

- **Lecturers:**
 - Tim Baldwin
 - Nic Geard
 - Farah Khan
 - Marion Zalk

Who?

- **Tutors:**



Definition

tutor (n): person who runs the tutorial component of the workshops ("W01"), helps with the marking, provides sagacious advice on subject-related matters, reinforms, empathises, explains, endures (the lecturers), and helps decipher the undecipherable

See LMS for a very long listing

Lecture Agenda

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

Who?

- **Lecturers:**
 - Tim Baldwin
 - Nic Geard
 - Farah Khan
 - Marion Zalk



Definition

lecturer (n): person who writes/delivers the lectures, coordinates the subject, designs the worksheets/projects, writes the tests/exams, informs, entertains, engages, enthuses, and disentangles the undisentangleable

Who?

- **Demonstrators:**



Definition

demonstrator (n): person who aids the flagging tutor in running the lab component of the workshops ("W02"), 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

See LMS for a very long listing

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!

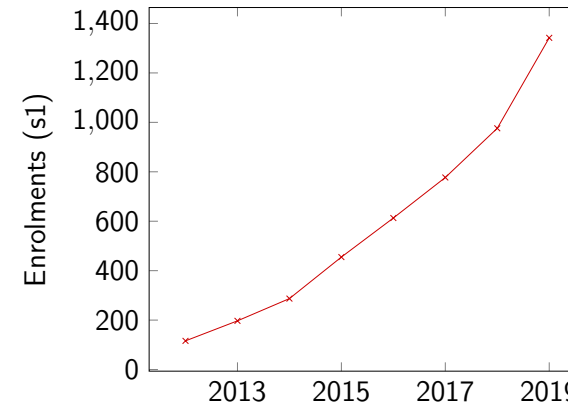
Let's Play ...

- Example 1: chicktionary
- Example 2: "bloodification"

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

Why (do this Subject)?



And Now for Something Completely Different ...

Make a COMPadre! #padrejoke

pollev.com/comp10001

Where and When

- Lectures (three per week):

1 <	Tue	11:00–12:00pm	(Carillo Gantner)
	Tue	4:15–5:15pm	(Arts West B101)
2 <	Thu	11:00–12:00pm	(Arts West B101)
	Thu	4:15–5:15pm	(Carillo Gantner)
3 <	Fri	11:00–12:00pm	(Arts West B101)
	Fri	12:00–1:00pm	(Arts West B101)

Starting from **week 3**, **Fri** lectures will alternate between: (1) a guest lecture; (2) an advanced lecture; and (3) a revision lecture

- Workshops (two hours per week, in form of tutorial ["W01"] + lab ["W02"]) ... start from **Friday (NO WORKSHOPS MON–THU THIS WEEK)**

Female-only Workshop

- We will be running a **female-only** workshop again this semester (with teaching staff also all-female), in response to student/student club feedback, and building off a successful pilot in 2018, on **Tue 3:15–4:15 + Thu 2:15–3:15**
- Yes, this has legal signoff from the university ... and no, this is not in any way a patronising gesture — 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:
comp10001-lecturers@lists.unimelb.edu.au

Assessment

- Your subject mark will be made up of:
 - Interactive Grok Learning worksheets: 10%
 - Projects (×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 a set of worksheets due in a given week being 23:59 on the advertised day (Monday)

Bonus Marks

- We will award bonus participation marks for the subject, roughly as follows:
 - 1 mark = “eager beaver”: keen, eager, active, constructive participant in lectures and workshops, and on the subject forums
 - 2 marks = “rising star”: all of the above + helps answer other students’ questions + does all possible to go the extra mile in the subject
 - 3 marks = “student or tutor?”: all of the above + fingerprints all over the subject on the forums, in the lectures etc.
- There will also be bonus worksheets and “extension” components to the projects for bonus marks ... stay tuned

How do I Get Started?

- Check out the LMS:
www.lms.unimelb.edu.au
- Log in to Grok Learning:
groklearning.com/course/unimelb-comp10001-2019-s1/
- 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

- 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
- Email the lecturers **today** if you are interested in sitting the test:

comp10001-lecturers@lists.unimelb.edu.au

How do I Get Help?

- Make use of help within Grok (details on Thu)
- 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
- Email the lecturers

`comp10001-lecturers@lists.unimelb.edu.au`

Things to do before the Next Lecture

- Make “compadre” friends
- **ONLY** go to a workshop this week if it is on **FRIDAY**; other workshops start from **NEXT 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 forum (personal testimonial, Computing-related material, ...)

How do I Get Help?

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If you are struggling, 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**