COMP10001 Foundations of Computing
Final Wrap-up

Semester 1, 2019
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THE UNIVERSITY OF MELBOURNE

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Lecture Outline

How We Ran the Tournament

- 612 players made it into standard tournament

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- 612 players made it into standard tournament
- 261 passed the qualification round

How I will Mark the Tournament

- "Survival mark":

```
from math import tanh
def survival_mark(matches):
    return round((tanh((matches-10)
                       /matches)/tanh(1))**20, 1)
```

```
>>> survival_mark(10)
0.0
>>> survival_mark(40)
0.0
>>> survival_mark(80)
0.2
>>> survival_mark(800)
0.9
```


How I will Mark the Tournament

- "Tournament mark":

```
def ranking_mark(rank, total):
    return round(((1 - (rank/total))*0.9),
                 1) + 0.1
```

```
>>> ranking_mark(640, 649)
0.1
>>> ranking_mark(1, 649)
1.0
>>> ranking_mark(100, 649)
0.9
```

Lecture Outline

1. Project 3
2. Reflections

How We Ensnared You ...

- Harnessing computation for problem solving
- Fundamental programming constructs
- Data manipulation
- The Web, multimedia and visualisation
- 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!

Onwards and Upwards ...

- Computing and Software Systems major (BSc)
  - The next stop is ... COMP10002 Foundations of Algorithms (2019s2)
  - And perhaps also ... INFO20003 Database Systems (2019s2), COMP20008 Elements of Data Processing (2019s2), and INFO10003 Fundamentals of Interaction Design (2019s2)

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- Data Science major (BSc)
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Onwards and Upwards ...

- Computing and Software Systems major (BSc)
- Data Science major (BSc)
- Diploma in Informatics

For the COMP10001 Groupies

- As you will have noticed, COMP10001 is delivered by a young, energetic, talented, engaged, diverse bunch of folk, some of whom were in your position just 12 months ago
- If you feel you fit the bill, please apply to get involved with the teaching of the subject, with the following provisos:
  - need to have continued with COMP studies, and have completed at least COMP10002 (well)
  - generally need to "earn your stripes" as a demonstrator before you can be a tutor

For the COMP10001 Groupies

- If this appeals, applications are via:
  `https://apps.eng.unimelb.edu.au/casmas/`
  and tend to open around 2 months before the start of each semester; contact the relevant lecturer in a given semester for more details

Grok Help and Office Hours

- With the semester finishing today, we will no longer be supporting the Grok Help facility or offering office hours
- We will, however, run a consultation session closer to the exam; see the LMS for details

Final Words

- Thanks for giving computing a go! The COMP10001 team:
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  Farah

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  All we are saying is give computing a chance!