COMP636 – Software Development

Week 4: Python recap & additional tips

What we have covered so far

- VS Code – folders, terminal window, debugging
- Variables – types, type conversion
- IF statements & logical operators (==,!=,<,>,AND,OR,NOT)
- Collections – lists, tuples, dictionaries
- Loops – FOR & WHILE loops
- Functions – including variable scope
- Working with strings
- Data validation & error handling
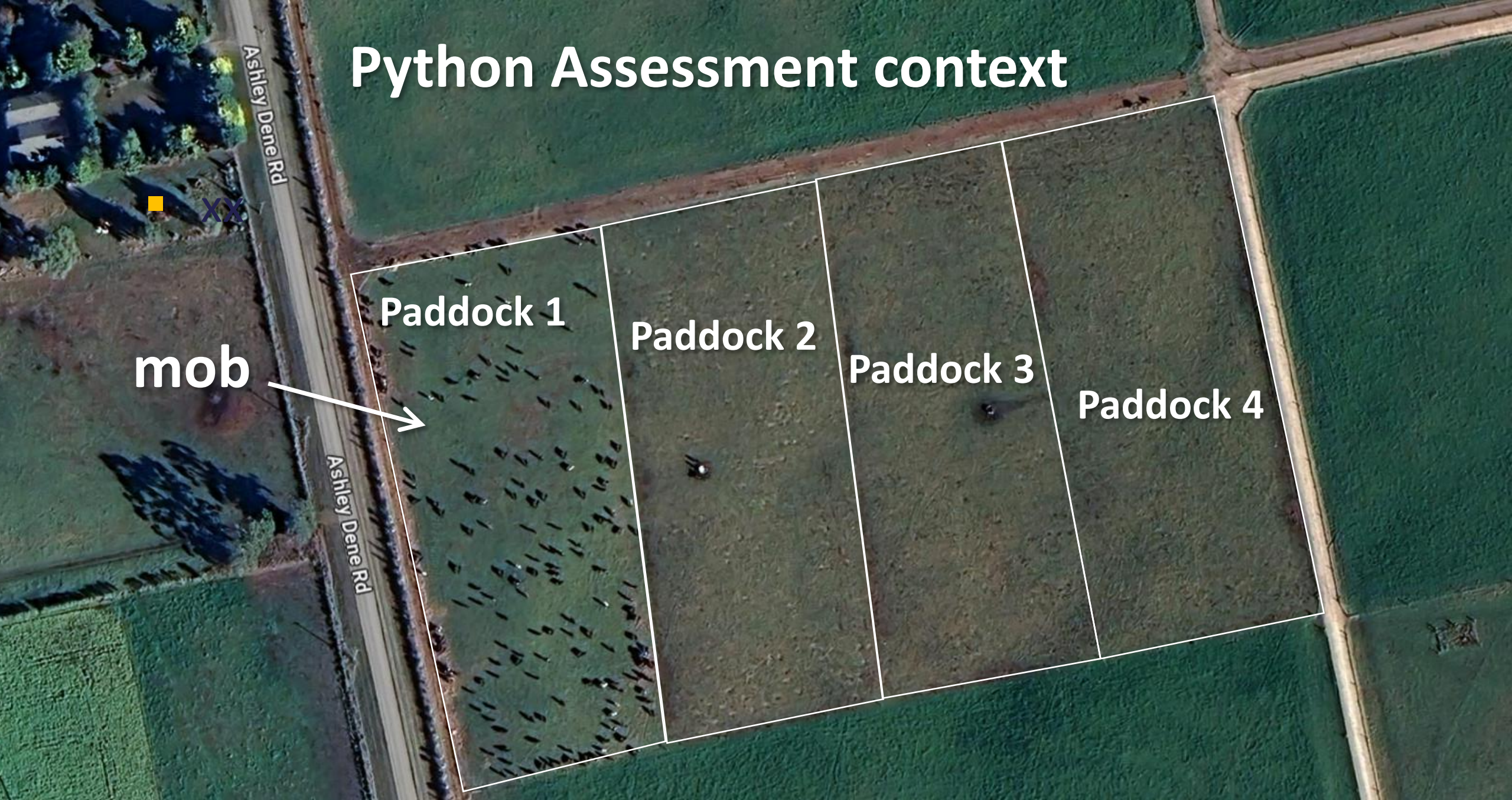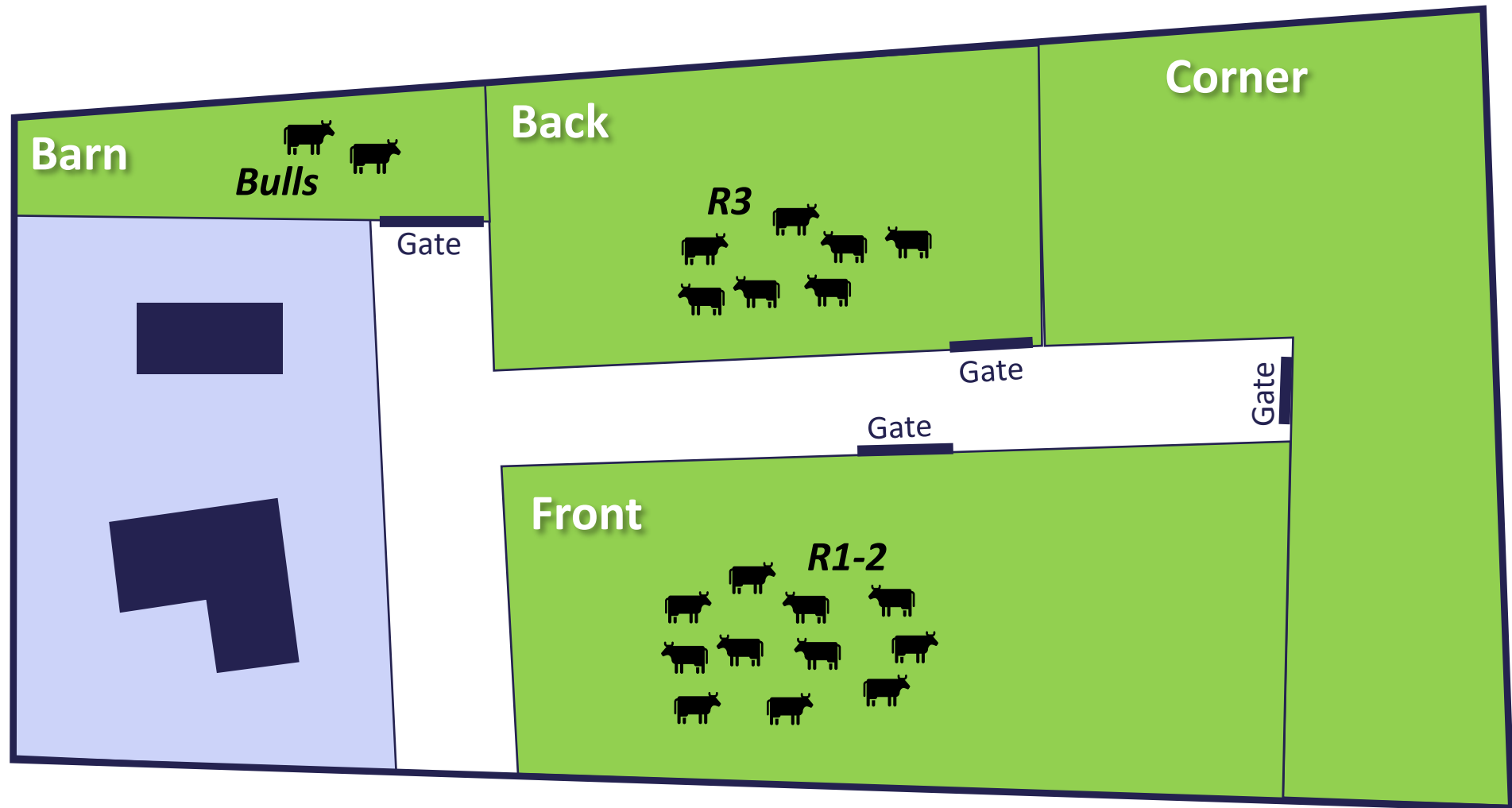- Working with dates & times

Today

- Sorting with lambda functions

- Functions extras:
  - Passing and returning collections (arrays)
  - Variable scope recap
  - Docstrings

- Tuple unpacking

- Python assessment background

Python Assessment context

Paddock 1

Paddock 2

Paddock 3

Paddock 4

mob

xx

Ashley Dene Rd

Moving mobs between paddocks

Python assessment comments

- Not a real, or even realistic system

- Don't need to add or edit mobs or paddocks

- Data will be changed for marking, e.g.:
  - Mobs: 'Mob1' (20), 'Mob2' (15), 'In calf' (12), 'Bulls' (3)
  - Paddocks: 'NW1', 'NW2', 'NW3', 'NW4', 'W1', 'W2', 'W3'

- But the data will look the same (no surprises)

- There is some data duplication to manage

- Ages will need to be updated
  - (Some are currently incorrect after I changed the due date. You can change manually, or just ignore and update when the first day changes.)