

BEGINNERS' PYTHON - CLASSES

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4TH YEAR MATHEMATICS

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WHAT IS A CLASS?

- Characteristic feature of object oriented programming languages
- The class of an object is equivalent to its type, e.g. [1,2] is a list
- Everything is an object everything belongs to a class (has a type)
- You can define your own object types by writing classes
- This allows you to define methods e.g. my list.append(2)
- If an object x has class A, we say x is an instance of the A class, e.g. [1,2] is an instance of the list class

CREATING CLASSES

Create an instance of a class in the same way you call a function — the __init__ method will be called. lewis = Student(2) lewis.work() print(lewis.deadlines) lewis.join society("CodeSoc")

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CHALLENGE 5

- Go to github.com/LewisGaul/python-tutorial, download challenge5.py
- Work out how the code works (try adding in some print statements)
- Write comments with '#' to explain how it works
- When you understand it all have a go at the challenge
- Try to use sensible variable names
- Avoid using too many indented layers or repeating code