Module 2

Simulating memory recall

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Learning Object Oriented Programming

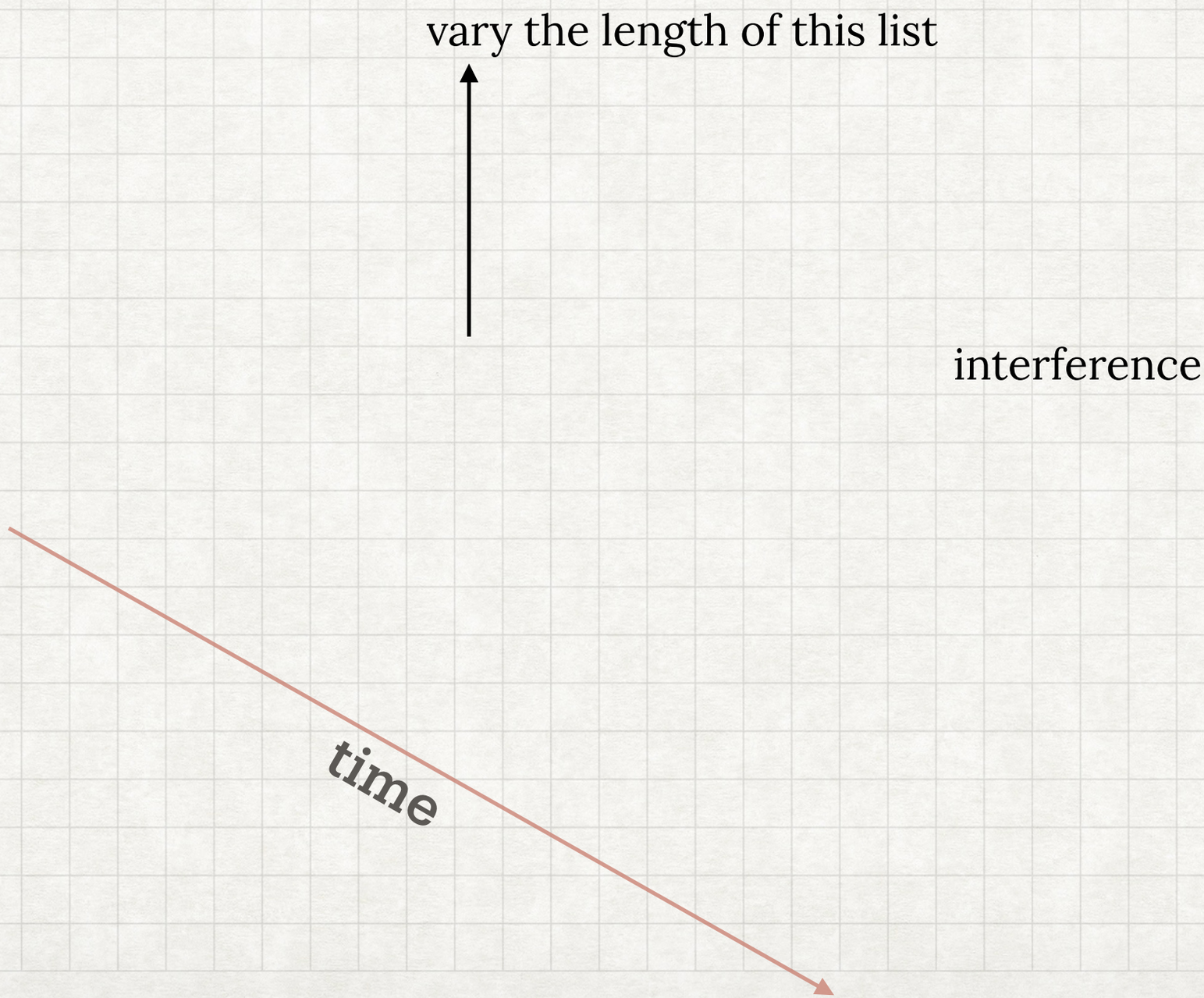
Resources:

https://realpython.com/python3-object-oriented-programming/

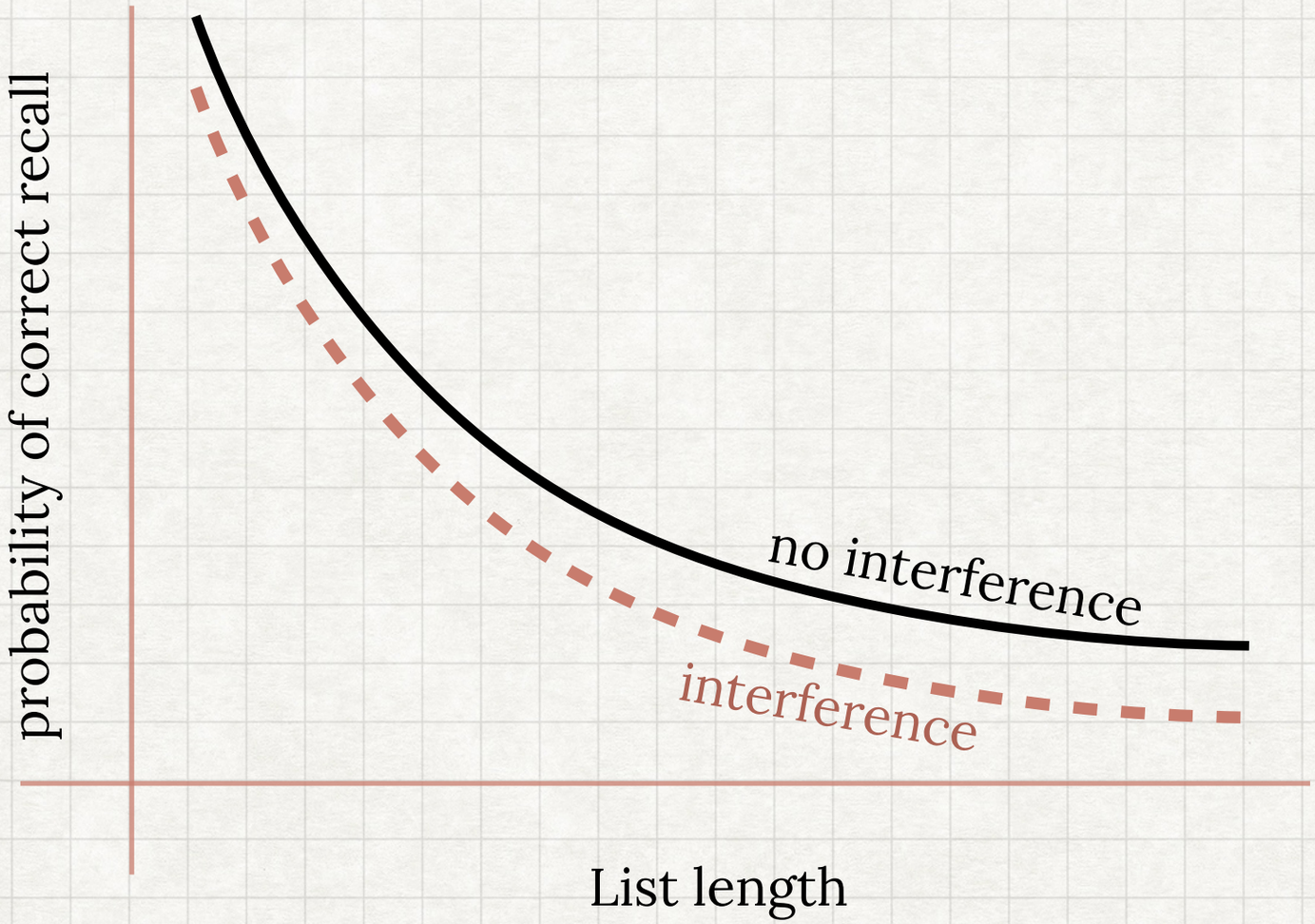
https://realpython.com/numpy-random-number-generator/

Mini-Project: List-length effect in memory

Recall a list of letters / syllables / non-words



List-length effect



Mini-project 2

Write Python code to:

* Simulate recall across list lengths, with and without interference, visualise the forgetting curves
* Use Object-oriented programming to:
  * Define a Baseline Model, which simulates forgetting based on list length
  * Define a Interference Model, which simulates effect of interference
* Run an experiment, where participants are divided into control & baseline conditions
* Simulate data from participants and store into CSV file
* Analyse the results and visualise the forgetting curves for both set of participants

Demo 1: Creating classes and instances

Write Python code to:

* Create a class, called ‘Coin’. This class:
    * Should contain two ‘sides’ (called ‘heads’ & ‘tails’)
    * Should contain a method called ‘flip’, that randomly returns one of the two ‘sides’