

**WEEK 7**

# **COMP(2041|9044)**

Have you had lunch?

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## AGENDA

1. Python
2. More Python
3. Regex in Python  
(i.e. Even more Python)

## HASHBANG

1. In shell we have been using the following hashbang:

```
#!/bin/dash
```

OR

```
#!/usr/bin/env dash
```

How should we modify this hashbang to use it with python?

## HASHBANG



```
#!/usr/bin/env python3
```

1. Uses python3 interpreter, not dash
2. Uses interpreter indirectly using env utility. Which will search the path. Means you don't need to know the exact location.

## VERSION

2. What version of python should be used in this course?

What are the differences between different versions of python?

## VERSION

- Match the version on CSE systems. Currently Python 3.11.2
- Can find version by running: `python3 --version`
- Python is in theory, forward compatible
- Recommended to just use CSE one
- If you use newer features this will break when marking
- Python2 is old and unsupported, use Python3

## DOCUMENTATION

- C and Shell documentation can be found with the man command
- Python is much larger and doesn't have full documentation in man
- Has man for its command line arguments
- Inbuilt documentation with the help function
- But full documentation is online.

Full python Documentation is available at  
[docs.python.org/3.11/](https://docs.python.org/3.11/)

The most useful parts of the documentation are:

- [Library Reference](#) for common functions
- [Language Reference](#) for python syntax
- [Module Index](#) for things you can import
- [Search](#) for finding things



## 4. What is a REPL?

How do you start the python REPL?

Read-Eval-Print-Loop

**CODE DEMO!**

# TIME FOR LAB

[Code and Slides Available here](https://github.com/jeremyle56/tutoring/tree/24T2/24T2/cs2041)

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