CSC349A Numerical Analysis
Lecture 2

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Python

- Python - `https://www.spyder-ide.org/`
  - Comes with Anaconda
- NumPy - Use this package most
  - numpy.array allows for the same vectorization as Matlab
- Pyplot - Use this for graph plotting
  - matplotlib.pyplot.plot
- SciPy - Has some more advanced and efficeint scientific computation algorithms
  - scipy.interpolate

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MATLAB

- https://matlab.engr.uvic.ca/student/
- pgs. 28-40 - Elementary programming concepts and pseudocode
- pgs. 948-955 - Appendix B: Getting Started with MATLAB
- pgs. 44-48 - MATLAB and the free-falling example
- UVic MATLAB reference manual in Brightspace - Lecture 2 Sub-module.
- MATLAB = *MAT*rix *LAB*oratory
- The matrix is the fundamental data structure.
- MATLAB is *interpreted* NOT compiled.