

GEO111 – NUMERICAL SKILLS IN GEOSCIENCE

week #04: Plotting and visualizing data

18th April 2016

The purpose of this week is to consolidate understanding of array indexing and manipulation, 3D plotting, loops and conditionals.

Work plan

Work through the remainder of Chapter #3 ('MATLAB scripting and programming') of the GEO111 course handout. For additional/background reading:

- **MATLAB®7 – Getting Started Guide**
 - *Programming – Scripts and Functions* – pages 4-20 through 4-23
- **MATLAB – A Practical Introduction to Programming and Problem Solving**
 - *Nested for loops* – pages 155-162

Learning goals (aka: 'what specifically should I have got to grips with?')

Topics and methodologies you should be familiar with:

- functions (a 'special' case of an **m-file**)
- nested loops
- partial sums