# Software specifications

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Chapter number** | **Software required (With version)** | **Free/Proprietary** |  |  | **Download links to the software** | **Hardware specifications** | **OS required** |
| 1 | Numpy (any)  matplotlib (v1.1 or later, v1.4 preferred)  basemap (any)  scipy (any but v0.14.0, which has a now-patched relevant bug) | Free  Free  Free  Free | N/A | N/A | <http://scipy.org/install.html>  <http://matplotlib.org/downloads.html>  http://sourceforge.net/projects/matplotlib/files/matplotlib-toolkits/  <http://scipy.org/install.html> | A Computer | Any |
| 2 |  |  |  |  |  | Ditto | Any |
| 3 |  |  |  |  |  | Probably should have a keyboard | Any |
| 4 |  |  |  |  |  | A mouse | Any |
| 5 |  |  |  |  |  | Monitor would be nice, too | Any |

# Detailed installation steps (software-wise)

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

This approach uses miniconda as a quick-n-easy way to get started, but it doesn't get you 100%. Miniconda is merely a very convenient, cross-platform python distribution. It is not required for anything.

1. miniconda:

Download and install: http://conda.pydata.org/miniconda.html

1. NumPy

$ conda install numpy

1. Matplotlib

$ conda install matplotlib

1. SciPy

$ conda install scipy

1. Basemap

$ conda install basemap

1. wxpython

$ conda install wxpython

Note: this approach will work for the first four chapters and most of chapter 5. miniconda comes with the tkinter, pyqt and wx toolkits (wx installed separately). GTK is not well-supported in miniconda, but it is in every other installation method via standard package managers for Linux (see http://matplotlib.org/faq/installing\_faq.html#installation)