

# Software Hardware List

Chapter number	Software required (With version)	Download links to the software	OS required
1-9	Python 3.6	<a href="https://www.python.org">https://www.python.org</a>	Any
2	IPython 6.1.0	<a href="https://www.anaconda.com/download/">https://www.anaconda.com/download/</a>	Any
4	collections-extended 1.0.1	<a href="https://github.com/mlenzen/collections-extended">https://github.com/mlenzen/collections-extended</a>	Any
6	comath 0.0.3	<a href="https://github.com/shaypal5/comath">https://github.com/shaypal5/comath</a>	Any
7	PyPy 6.0	<a href="http://pypy.org/">http://pypy.org/</a>	Any
9	Sphinx 1.7.3	<a href="http://www.sphinx-doc.org/en/stable/">http://www.sphinx-doc.org/en/stable/</a>	Any
9	LyX 2.3.0	<a href="https://www.lyx.org/">https://www.lyx.org/</a>	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.

1. Python:
  1. Download OS-specific version from <https://www.python.org>.
  2. Install according to the instructions
2. IPython
  1. While IPython can be installed as a stand-alone package, it is recommended to use Anaconda to install it, as it includes a number of support packages in addition to IPython itself.
  2. Download the OS-specific version from <https://www.anaconda.com/download/>.
  3. Follow the OS-specific instructions at <https://docs.anaconda.com/anaconda/install/>.
3. collections-extended
  1. Use `pip install collections-extended` to install the package into the Python environment.

2. `collections-extended` can be imported into the current Python project or interactive shell.
4. `comath`
  1. Use `pip install comath` to install the package into the Python environment.
  2. `comath` can be imported into the current Python project or interactive shell.
5. PyPy
  1. Download the OS-specific version from <http://pypy.org/download.html>.
  2. Uncompress the downloaded file and run in-place, i.e. change to the directory where PyPy was installed and call `pypyp` from there. An alias/symlink can be created to allow it to be called from elsewhere.
6. Sphinx
  1. Use `pip install Sphinx` to install into the Python environment.
  2. Sphinx is normally ran directly from the command line.
7. LyX
  1. Download the OS-specific version from <https://www.lyx.org/Download>.
  2. Follow the OS-specific instructions from the same site.