

1 Macports

We'll be using Macports to simplify the installation of libraries. Download and run the Macports installer for Lion or Snow Leopard.

2 Installing the necessary libraries via Macports

Open a Terminal window. At the command prompt type:

2.1 libpng

```
sudo port install libpng
```

2.2 libjpeg

```
sudo port install jpeg
```

2.3 FFTW (Fastest Fourier Transform in the West)

```
sudo port install fftw-3
```

3 Starter Code

You can either use the provided Xcode project to compile and run the starter code or do so from the command line.

3.1 Xcode

1. Double-click on fieldViewer.xcodeproj.
2. Press the "Run" button to build and run the project.

Typing '?' will print a list of keyboard commands to the console. Repeat with fieldViewer-Basic and fieldViewerFFT.

3.2 Command Line

1. Open a Terminal window.
2. `cd` to the directory containing the `fieldViewer` source.
3. Build the project:
`make`
4. Run the executable:
`./fieldViewer`

Typing `'?`' will print a list of keyboard commands to the console. Repeat with `fieldViewer-Basic` and `fieldViewerFFT`.