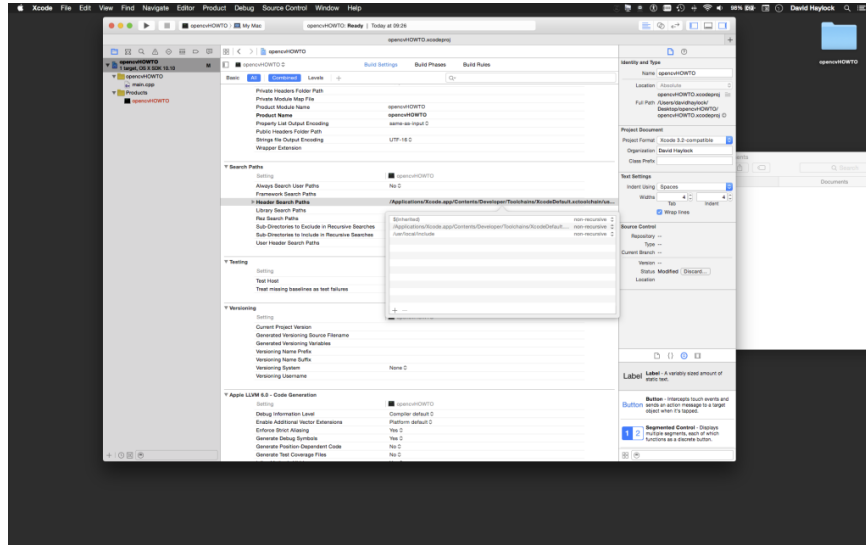


- Double Click the **Header Search Paths** option, then Click the plus icon
- Type in the following `/usr/local/include`



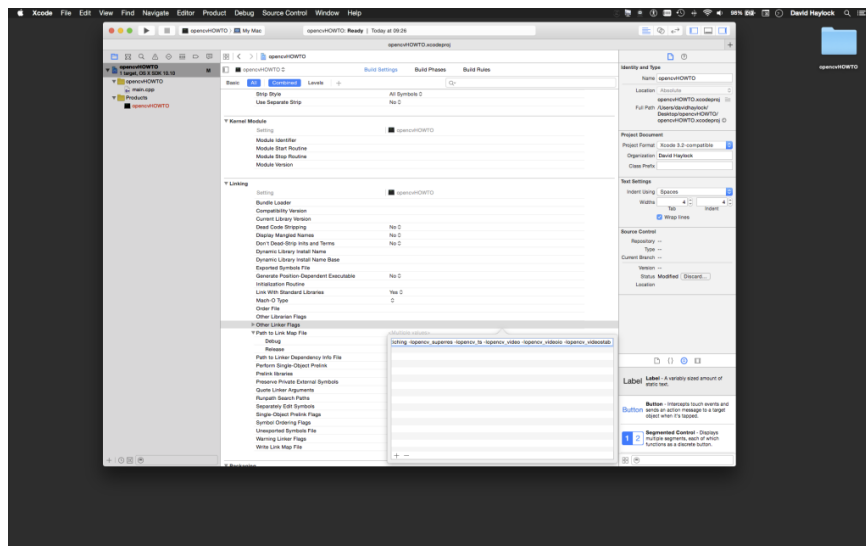
- Next Double Click the **Library Search Paths** option, then Click the plus icon
- Type in the following `/usr/local/lib`

Linking the Libraries

Now we need to tell XCode which libraries we want to build against. Still in Build Settings.

- Scroll until you find **Linking**
- Double Click **Other Linker Flags** and Click the plus icon
- Copy and Paste the following, then press enter

```
-lopencv_calib3d -lopencv_core -lopencv_features2d -lopencv_flann -lopencv_h
```

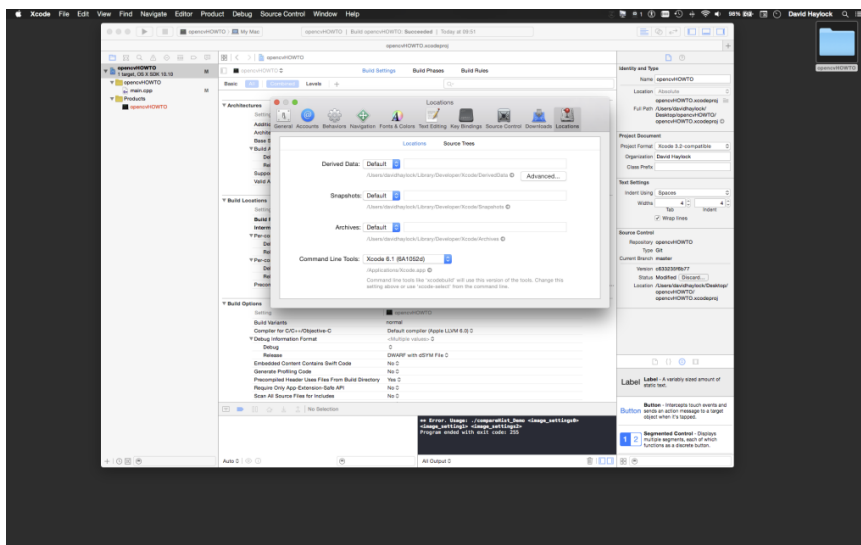


Setting the Build Path

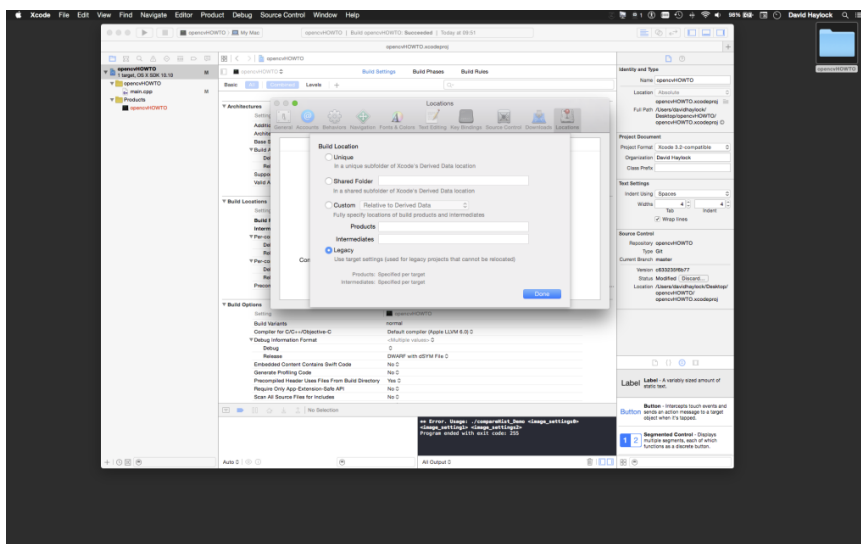
XCode automatically stores the executable file in a derived data folder, we want to change it so that the executable is stored in your project directory.

- Open XCode Preferences

- Select *Locations Tab*



- Click Advanced
- Change the Location Button from *Unique* to *Legacy*



Build your Application

Now you are ready to build your application. In your main.cpp file, add the following code. This is a sample application from the openCV package.

```
#include <opencv2/imgcodecs.hpp>
#include <opencv2/videoio/videoio.hpp>
#include <opencv2/highgui/highgui.hpp>

#include <iostream>
#include <stdio.h>

using namespace cv;
using namespace std;

//hide the local functions in an anon namespace
namespace {
    void help(char** av) {
        cout << "The program captures frames from a video file, image sequence ("
```

```

    << "Usage:\n" << av[0] << " <video file, image sequence or device number>
    << "q,Q,esc -- quit" << endl
    << "space -- save frame" << endl << endl
    << "\tTo capture from a camera pass the device number. To find the device
    << "\texample: " << av[0] << " 0" << endl
    << "\tYou may also pass a video file instead of a device number" << endl
    << "\texample: " << av[0] << " video.avi" << endl
    << "\tYou can also pass the path to an image sequence and OpenCV will tre
    << "\texample: " << av[0] << " right%%02d.jpg" << endl;
}

int process.VideoCapture& capture) {
    int n = 0;
    char filename[200];
    string window_name = "video | q or esc to quit";
    cout << "press space to save a picture. q or esc to quit" << endl;
    namedWindow(window_name, WINDOW_KEEPRATIO); //resizable window;
    Mat frame;

    for (;;) {
        capture >> frame;
        if (frame.empty())
            break;

        imshow(window_name, frame);
        char key = (char)waitKey(30); //delay N millis, usually long enough t

        switch (key) {
            case 'q':
            case 'Q':
            case 27: //escape key
                return 0;
            case ' ': //Save an image
                sprintf(filename,"filename%.3d.jpg",n++);
                imwrite(filename,frame);
                cout << "Saved " << filename << endl;
                break;
            default:
                break;
        }
    }
    return 0;
}

int main(int ac, char** av) {

    if (ac != 2) {
        help(av);
        return 1;
    }
    std::string arg = av[1];
    VideoCapture capture(arg); //try to open string, this will attempt to open it
    if (!capture.isOpened()) //if this fails, try to open as a video camera, thro
        capture.open(atoi(arg.c_str()));
    if (!capture.isOpened()) {
        cerr << "Failed to open the video device, video file or image sequence!\n";
        help(av);
        return 1;
    }
    return process(capture);
}

```

Then hold **CMD + B** (This builds and compiles the application)

Go to your project folder. There should be a new folder called Debug, inside is your executable file.

Open Terminal then navigate to the folder, then simply type `./<yourprojectname> 0`

This should open window and display the camera image.

And there you go!

NOVEMBER 19, 2014 BY DAVID HAYLOCK



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