

SIERRA NEVADA CORPORATION

GEOIMAGE LIBRARY

User Manual

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Introduction

The GeoImage Library is designed to allow for the loading and manipulation of NITF (National Imagery Transmission Format) images in OpenCV and C++ in general.

Usage

First, it is necessary to include the library. This is done with a single include statement. This procedure is shown in Figure 1.

```
#include <GeoImage>

int main( int argc, char* argv[] ){

    GeoImage img;
    return 0;
}
```

Figure 1: Process of importing the library and creating a basic image.

When you compile your program, it is necessary to link the library. This is shown in figure 2. Note that the build system will default to `/opt/local` for the path. You may change this in the Makefile.

```
g++ hello_world.cpp -I/opt/local/include -L/opt/local/lib -lgeoimage
```

Figure 2: Compilation example.

API Reference

```
GeoImage( const string& image_filename = "_NO_IMAGE_SELECTED_", const bool& initialize = fa
```

Figure 3: Constructor for the GeoImage Object