


```

#include <iomanip>
#include <cassert>

// Use with file http://digikam3rdparty.free.fr/TEST\_IMAGES/RAW/HORIZONTAL/MINOLTA-DYNAX7D-02.MRW

int main(int argc, char* const argv[])
try {
    if (argc != 2) {
        std::cout << "Usage: " << argv[0] << " file\n";
        return 1;
    }
    // load Exif
    Exiv2::Image::AutoPtr image = Exiv2::ImageFactory::open(argv[1]);
    assert(image.get() != 0);
    image->readMetadata();
    Exiv2::ExifData &exifData = image->exifData();
    if (exifData.empty()) {
        std::string error(argv[1]);
        error += ": No Exif data found in the file";
        throw Exiv2::Error(1, error);
    }
    // find UserComment
    Exiv2::ExifKey key("Exif.Photo.UserComment");
    Exiv2::ExifData::iterator it = image->exifData().findKey(key);
    if (it != image->exifData().end())
    {
        const Exiv2::Value &value = it->value();
        // this fails: the value is of type DataValue
        std::cout << "Value from Exifdatum with key " << it->key().c_str() <<
            " has type " << typeid(value).name() <<
            " which should be " << typeid(Exiv2::CommentValue).name() << std::endl;
    }
    // get raw data
    Exiv2::ExifData& exif = image->exifData();
    Exiv2::DataBuf c2 = exif.copy();
    unsigned char *data = new unsigned char[c2.size_];
    memcpy(data, c2.pData_, c2.size_);
    // load from raw data
    Exiv2::ExifData exifDataReloaded;
    exifDataReloaded.load((Exiv2::byte*)data, c2.size_);
    exifDataReloaded.sortByKey();
    // find UserComment
    it = exifDataReloaded.findKey(key);
    if (it != exifDataReloaded.end())
    {
        const Exiv2::Value &value = it->value();
        // this is successful: the value is of type CommentValue
        std::cout << "Value from reloaded Exifdatum with key " << it->key().c_str() <<
            " has type " << typeid(value).name() <<
            " which should be " << typeid(Exiv2::CommentValue).name() << std::endl;
    }
    return 0;
}

```

```
catch (Exiv2::AnyError& e) {  
    std::cout << "Caught Exiv2 exception " << e << "\n";  
    return -1;  
}
```

#3 - 10 Jun 2006 07:35 - Andreas Huggel

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