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Below are a few examples that show how to use some of the main features of bit7z.

📁 Extracting files from an archive

```
#include <bit7z/bitfileextractor.hpp>

try { //bit7z classes can throw BitException objects
    using namespace bit7z;

    Bit7zLibrary lib{ "7za.dll" };
    BitFileExtractor extractor{ lib, BitFormat::SevenZip };

    //extracting a simple archive
    extractor.extract( "path/to/archive.7z", "out/dir/" );

    //extracting a specific file
    extractor.extractMatching( "path/to/archive.7z", "file.pdf", "out/dir/" );

    //extracting the first file of an archive to a buffer
    std::vector< byte_t > buffer;
    extractor.extract( "path/to/archive.7z", buffer );

    //extracting an encrypted archive
    extractor.setPassword( "password" );
    extractor.extract( "path/to/another/archive.7z", "out/dir/" );
} catch ( const bit7z::BitException& ex ) { /* do something with ex.what()...*/ }
```

📁 Compressing files into an archive

```
#include <bit7z/bitfilecompressor.hpp>

try { //bit7z classes can throw BitException objects
    using namespace bit7z;

    Bit7zLibrary lib{ "7z.dll" };
    BitFileCompressor compressor{ lib, BitFormat::Zip };
```

```

std::vector< std::string > files = { "path/to/file1.jpg", "path/to/file2.pdf" };

//creating a simple zip archive
compressor.compress( files, "output_archive.zip" );

//creating a zip archive with a custom directory structure
std::map< std::string, std::string > files_map = {
    { "path/to/file1.jpg", "alias/path/file1.jpg" },
    { "path/to/file2.pdf", "alias/path/file2.pdf" }
};
compressor.compress( files_map, "output_archive2.zip" );

//compressing a directory
compressor.compressDirectory( "dir/path/", "dir_archive.zip" );

//creating an encrypted zip archive of two files
compressor.setPassword( "password" );
compressor.compressFiles( files, "protected_archive.zip" );

//updating an existing zip archive
compressor.setUpdateMode( UpdateMode::Append );
compressor.compressFiles( files, "existing_archive.zip" );

//compressing a single file into a buffer
std::vector< byte_t > buffer;
BitFileCompressor compressor2{ lib, BitFormat::BZip2 };
compressor2.compressFile( files[0], buffer );
} catch ( const bit7z::BitException& ex ) { /* do something with ex.what()...*/ }

```

Reading archive metadata

```

#include <bit7z/bitarchivereader.hpp>

try { //bit7z classes can throw BitException objects
    using namespace bit7z;

    Bit7zLibrary lib{ "7za.dll" };
    BitArchiveReader arc{ lib, "archive.7z", BitFormat::SevenZip };

    //printing archive metadata
    cout << "Archive properties" << endl;
    cout << " Items count: " << arc.itemsCount() << endl;
    cout << " Folders count: " << arc.foldersCount() << endl;
    cout << " Files count: " << arc.filesCount() << endl;
    cout << " Size: " << arc.size() << endl;
    cout << " Packed size: " << arc.packSize() << endl;
    cout << endl;

    //printing archive items metadata

```



```

cout << "Archive items";
auto arc_items = arc.items();
for ( auto& item : arc_items ) {
    cout << endl;
    cout << " Item index: "    << item.index() << endl;
    cout << "  Name: "        << item.name() << endl;
    cout << "  Extension: "    << item.extension() << endl;
    cout << "  Path: "         << item.path() << endl;
    cout << "  IsDir: "        << item.isDir() << endl;
    cout << "  Size: "         << item.size() << endl;
    cout << "  Packed size: " << item.packSize() << endl;
}
} catch ( const bit7z::BitException& ex ) { /* do something with ex.what()...*/ }

```

Documentation for **bit7z v4.0.9**
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bit7z

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API Reference (v4.0.5)

main classes and type aliases

- [Bit7zLibrary](#)
- [BitArchiveEditor](#)
- [BitArchiveReader](#)
- [BitArchiveWriter](#)
- [BitException](#)
- [BitFileCompressor](#)
- [BitFileExtractor](#)
- [BitMemCompressor](#)