mobi2epub Documentation

Release 0.01

JA

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CHAPTER

ONE

MOBI::

1.1 mobi::st_c_section

```
class \; \texttt{mobi::st\_c\_section}
```

Container used for simpler management of Content array by passing it's size along with it

1.1.1 st c section variables

public

```
uint8* st_c_section::content
unsigned int st_c_section::size
```

1.1.2 st_c_section methods

public

```
st_c_section()
st_c_section (unsigned int x)
    sets up st_c_section::content to uint8[x]
    and st_c_section::size to x
```

1.2 mobi::mobireader

```
class mobi::mobireader
```

Opens .mobi files and reads as much data as possible.

```
std::string foo = "foo.mobi";
mobi::mobireader bar(foo);
std::cout << bar.get_title();</pre>
```

1.2.1 mobireader variables

private

```
st_palmdoc_db mobireader::db_header
st_palmdoc mobireader::pd_header
st_mobi mobireader::mobi_header
vector mobireader::section_offsets
    byte offset of every data section in file
st_c_section mobireader::c_section
string mobireader::input_file_name
    name of the file, because ifstream is too cool to keep that.
ifstream* mobireader::file
    All it should do is get passed to the handler
compression* mobireader::reader
    Pointer to new instance of mobi::compression
header_handler* mobireader::handler
    pointer to new instance of header_handler
char* mobireader::title
    title of the book set by set_title() and set_default_title() methods
```

1.2.2 mobireader methods

private

```
mobireader::void parse_header()
    loads up headers structures and section vector
          mobireader::db_header
                                                  doesn't
                                                            equal
                                                                     BOOKMOBI,
                                                                                      throws
                                          type
    mobi::invalid_file_exception
mobireader::void set_compression()
    decides which one of the mobi::compression classes should *reader point to
    throws unsupported_compressiontype_exception for dictionary compression. mainly because i
    haven't found it in any of my books.
std::string mobireader::get_section_uncompressed(unsigned int s) const
    Handles uncompressing and returning section from a valid range of section_offsets vector
    header_out_of_range_exception
```

public:

```
mobireader::mobireader (std::string& input_file_name)
mobireader::mobireader (const mobireader& m)
mobireader::mobireader()
mobireader::~mobireader()
```

1.3 mobi::header handler

class header_handler

Handles reading data from the .mobi files, so the mobi::mobireader methods can be a bit cleaner.

or just use templates, which i won't implement, because there's already too much syntax noise as it is, without

1.3.1 header_handler variables

private

1.3.2 header_handler methods

```
std::ifstream* header_handler::file
```

public:

```
header_handler (std::ifstream* file)
Sets up file pointer to mobireader::file
header_handler& header_handler::offset (unsigned int offset)
Sets offset in file returns reference to self
header_handler& header_handler::skip (unsigned int skip)
Skips n bytes in file returns reference to self
header_handler& header_handler::read (type& i)
Reads sizeof i from file and saves it to i
returns reference to header_handler
header_handler& header_handler::read (type& i, unsigned int n)
Reads n times sizeof i from file and saves it to i
Should be overloaded for every necessary data type
```

the chevron brackets.

returns reference to self

1.4 mobi::compression

```
class mobi::compression
    abstract class, providing base for pd_compression, no_compression and hd_compression
```

1.4.1 compression variables

private

std::string destination

1.4.2 compression methods

public:

```
void compression::uncompress(uint8_t* src, size_t srcLen) = 0
```

Note: pure virtual function

Should be overloaded with:

```
if(!this->destination.empty())
    this->destination.clear();
(decompression algorithm that appends stuff to this->destination)
return;
```

std::string compression::output_raw()

Note: virtual function

Usually should just:

```
return this->destination;
```

class mobi::pd_compression

inherits from compression

Uses PalmDoc algorithm:

- 1.Read a byte from the compressed stream. If the byte is
- 2.0x00: "1 literal" copy that byte unmodified to the decompressed stream.
- 3.0x09 to 0x7f: "1 literal" copy that byte unmodified to the decompressed stream.
- 4.0x01 to 0x08: "literals": the byte is interpreted as a count from 1 to 8, and that many literals are copied unmodified from the compressed stream to the decompressed stream.

- 5.0x80 to 0xbf: "length, distance" pair: the 2 leftmost bits of this byte ('10') are discarded, and the following 6 bits are combined with the 8 bits of the next byte to make a 14 bit "distance, length" item. Those 14 bits are broken into 11 bits of distance backwards from the current location in the uncompressed text, and 3 bits of length to copy from that point (copying n+3 bytes, 3 to 10 bytes).
- 6.0xc0 to 0xff: "byte pair": this byte is decoded into 2 characters: a space character, and a letter formed from this byte XORed with 0x80.

7.Repeat from the beginning until there is no more bytes in the compressed f

Except it doesn't copy 0x00. Because who in the right mind would want to do that?

```
throws mobi::not_palmdoc_compression_exception
    from check at stage 5.

class mobi::no_compression
    inherits from compression

    It's just:

    if (!this->destination.empty())
        this->destination.clear();
    this->destination.append((char *)src, srcLen);

    in compression::uncompress()

class mobi::hd_compression
    inherits from compression
```

currently not implemented, because none of the books i've found use it.

1.5 separate mobi::functions

```
mobi::strcmp_is_a_worthless_pos(char* x, char* y, int* n)
     compares x and y arrays up to n. returns true if they match
void bswap (uint 16 t \& x)
void bswap (uint32_t& x)
void bswap (uint64 t \& x)
     switch variable endianess on little endian architecture.
void unretardify_header (st_palmdoc_db& x)
void unretardify_header (st_palmdoc& x)
void unretardify_header (st_mobi& x)
     bswap every value in those structures.
type st_palmdoc_db
     Should be equal to 78 bytes.
     char
            name[32];
     uint16_t flags;
     uint16_t version;
     uint32_t c_time;
     uint32_t m_time;
     uint32_t b_time;
     uint32_t mod_num;
     uint32_t app_info;
```

```
uint32_t sort_info;
char type[8]; //BOOKMOBI
uint32_t u_id_seed;
uint32_t next_record_list;
uint16_t num_records;
```

type st_palmdoc

Should be equal to 16 bytes.

```
uint16_t compression
uint16_t garbage
uint32_t text_length
uint16_t record_count
uint16_t record_size
uint32_t current_pos
```

type st_mobi

Should be equal to 232 bytes.

```
char
      id[4]
uint32_t header_len
uint32_t mobi_type
uint32\_t\ text\_encoding
uint32_t u_id
uint32_t file_version
uint32_t ortographic_index
uint32_t inflection_index
uint32_t index_names
uint32_t index_keys
uint32_t extra_index0
uint32_t extra_index1
uint32_t extra_index2
uint32_t extra_index3
uint32_t extra_index4
uint32_t extra_index5
uint32_t first_nonbook_index
uint32_t full_name_offset
uint32_t full_name_length
uint32_t locale
uint32_t input_language
uint32_t output_language
uint32_t min_version
uint32_t first_image_index
uint32_t huffman_record_offset
uint32_t huffman_record_count
uint32_t huffman_table_offset
uint32_t huffman_table_length
uint32_t exth_flags
char garbage[32]
uint32_t drm_offset
uint32_t drm_count
uint32_t drm_size
uint32_t drm_flags
char garbage2[12]
uint16_t first_content_record_number
uint16_t last_content_record_number
uint32_t unknown
uint32_t fcis_record_number
uint32_t fcis_record_count
```

```
uint32_t flis_record_number
uint32_t flis_record_count
uint64_t unk0
uint32_t unk1
uint32_t unk2
uint32_t unk3
uint32_t unk4
uint32_t extra_record_data_flags
uint32_t indx_record_offset
```

EPUB::

```
It's a namespace for classes reading epub, creating epub and converting TO epub
std::string container_xml
              http://wiki.mobileread.com/wiki/EPUB#container.xml
              <?xml version=\"1.0\"?>\n\
              <container version=\"1.0\" xmlns=\"urn:oasis:names:tc:opendocument:xmlns:container\">\n\
              <rootfiles>\n\
                           <rootfile full-path=\"OEBPS/content.opf\" media-type=\"application/oebps-package+xml\"/>\n\
              </rootfiles>\n\
              </container>"
std::string mimetype
              http://wiki.mobileread.com/wiki/EPUB#mimetype
               "application/epub+zip";
std::string content_opf
              http://wiki.mobileread.com/wiki/EPUB#OPF
              <?xml version=\"1.0\" encoding=\"utf-8\" standalone=\"yes\"?>\n\
              \label{lem:condition} $$\operatorname{mlns=\"http://www.idpf.org/2007/opf\"unique-identifier=\"BookId\"version=\"2.0\">\n\ dentifier=\"bookId\"version=\"2.0\">\n\ dentifier=\"bookId\"version=\"2.0\">\n\ dentifier=\"bookId\"version=\"2.0\">\n\ dentifier=\"bookId\"version=\"2.0\">\n\ dentifier=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version=\"bookId\"version
                           <metadata xmlns:dc=\"http://purl.org/dc/elements/1.1/\" xmlns:opf=\"http://www.idpf.org/2007</pre>
                                       <dc:title>%1%</dc:title> \n\
                           </metadata>\n\
                           <manifest>\n\n\
              %2%\n\
                                          //itemid
                           </manifest>\n\
                           <spine toc=\"ncx\">\n\n\
              %3%\n\ //itemref
                           </spine>\n\
              </package>\n\
              title string comes from mobireader::get_title()
```

std::string itemid

std::string itemref

format string for content_opf

format string for content_opf

```
2.1 epub::mobi2epub
class epub::mobi2epub
     Class converting .mobi files to .epub
     and because of lame .zip support writes them on the disk immediately.
2.1.1 mobi2epub variables
private
boost::filesystem::path path_out
     Path to output file obviously including file name
     Used in mobi2epub::directory_to_epub()
boost::filesystem::path path_tmp
     Path to temporary directory used to save the entire uncompressed file structures
     and because everybody should use tmpfs, everything happens in the RAM anyway
mobi::mobireader m
     instance of mobi::mobireader copied in mobi2epub::mobi2epub()
mutable bool safe
     Tells if it's ok to run mobi2epub::directory_structure()
```

```
mutable bool no_cleanup
```

wakes most zepas...

 $Makes \; \verb"mobi2epub:: \verb"cleanup"() \; exit \; immediately$

mutable bool vanilla_out

checks if mobi2epub::set_out() was called and path_out comes from the user

2.1.2 mobi2epub methods

private

checks if already exists, if so ask to whether remove or set to safe and continue

```
void mobi2epub::cleanup() const
```

Warning: Removes recursively every file in path_tmp without asking if safe is set to **True** should be handled with caution.

```
no_cleanup decides whether it should return instantly
throws epub::user_wants_out_exception if the user decides to quit
```

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```
void mobi2epub::gen_content_opf (std::stringstream& itemids, std::stringstream& itemrefs) const
     generates content_opf and saves it to:
     OEBPS/content.opf
void mobi2epub::operator=(mobi2epub& m)
     makes the class uncopyable
mobi2epub::mobi2epub (mobi2epub& m)
     makes the class uncopyable even more
void mobi2epub::set_out (std::string& s)
     sets vanilla_out to False, then changes path_tmp to
public
mobi2epub::mobi2epub (const mobi::mobireader& m, bool safe=false, bool no_cleanup=false)
void mobi2epub::save_to_directory() const
     calls mobi2epub::directory_structure() and mobireader::get_html()
     splits the html on every new chapter mark:
     <mbp:pagebreak/>
     then iterates over it to
        1.sanitize it as xhtml with epub::html::tidyhtml
        2.save it to path_tmp /OEBPS/text
        3.build up itemid and itemref lists, which get passed to mobi2epub::gen_content_opf() later
void mobi2epub::save_to_directory (std::string s)
     calls mobi2epub::set_out() and then proceeds to mobi2epub::save_to_directory()
void mobi2epub::directory_to_epub() const
     calls zip executable to compress everything in path_tmp and save it to path_out
              if it somehow compiles on windows and nothing fails up to this point, should throw
     Note:
     epub::terrible_operating_system_exception
void mobi2epub::directory_to_epub (std::string s)
     calls mobi2epub::set_out() before calling actual mobi2epub::directory_to_epub()
```

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CHAPTER

THREE

EXCEPTIONS

 $class \verb|mobi|::not_palmdoc_compression_exception|$

class epub::file_write_exception

class epub::terrible_operating_system_exception

class epub::zip_exit_status_exception

class epub::path_changed_exception

class epub::user_wants_out_exception

class mobi::no_such_file_exception

 $class \; \texttt{mobi::invalid_file_exception}$

 $class \ \verb"mobi::invalid_compression_type_exception"$

 $class \; \texttt{mobi::header_out_of_range_exception}$

 $class \ \texttt{mobi::unsupported_compressiontype_exception}$

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