

Onegin Sorter

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1 Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

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2 File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

include/document.h	2
include/unicode.h	4
include/unicode_tables.h	??

3 Data Structure Documentation

3.1 document_t Struct Reference

```
#include <document.h>
```

Data Fields

- char * [data](#)
Raw data from file.
- int [data_size](#)
Raw data size; used for internal purposes.
- line_t * [lines](#)
Array of lines of text.
- int [lines_cnt](#)
Length of `lines` array.

3.1.1 Detailed Description

Text file separated into lines by “\n” symbol

The documentation for this struct was generated from the following file:

- [include/document.h](#)

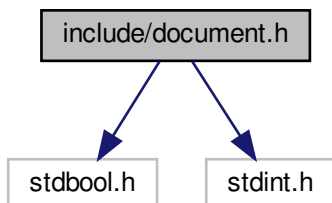
4 File Documentation

4.1 include/document.h File Reference

```
#include <stdbool.h>
```

```
#include <stdint.h>
```

Include dependency graph for document.h:



Data Structures

- struct [document_t](#)

Typedefs

- typedef char * [line_t](#)

Functions

- [document_t](#) * [read_document](#) (const char *filename)
- bool [check_document](#) (const [document_t](#) *document, int *err_pos)
- bool [print_document](#) (const [document_t](#) *document, const char *filename)
- void [close_document](#) ([document_t](#) *document)
- int32_t [symbol_at](#) (const [document_t](#) *document, int pos)

4.1.1 Function Documentation

4.1.1.1 [check_document\(\)](#)

```
bool check_document (
    const document\_t * document,
    int * err_pos )
```

Check if the document is correct utf-8 file

Parameters

out	err_pos	If file is malformed, position of the first illegal byte is written here
-----	-------------------------	--

4.1.1.2 [close_document\(\)](#)

```
void close_document (
    document\_t * document )
```

Free all structures related to the document

4.1.1.3 [print_document\(\)](#)

```
bool print_document (
    const document\_t * document,
    const char * filename )
```

Write lines of the document to the file `filename`

Returns

`true` if succeeded and `false` otherwise

4.1.1.4 read_document()

```
document_t* read_document (
    const char * filename )
```

Open file `filename` and read it

Returns

pointer to the document if no errors occurred or NULL otherwise

4.1.1.5 symbol_at()

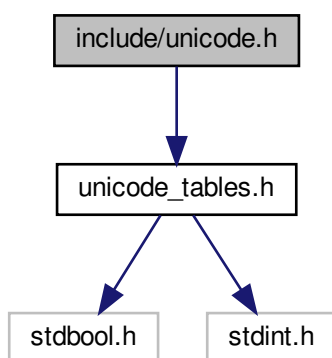
```
int32_t symbol_at (
    const document_t * document,
    int pos )
```

Get symbol by its position in original file

4.2 include/unicode.h File Reference

```
#include "unicode_tables.h"
```

Include dependency graph for unicode.h:



Functions

- `int32_t next_symbol (const char **pos)`
- `int unicode_lex_cmp (const void *str_a, const void *str_b)`
- `int unicode_rev_lex_cmp (const void *str_a, const void *str_b)`

4.2.1 Function Documentation

4.2.1.1 next_symbol()

```
int32_t next_symbol (  
    const char ** pos )
```

Read next utf8-encoded symbol from char buffer and move the pointer

Parameters

<code>in, out</code>	<code>pos</code>	Is changed if there is a valid encoded symbol
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Returns

code of symbol or -1 if it is invalid

4.2.1.2 `unicode_lex_cmp()`

```
int unicode_lex_cmp (
    const void * str_a,
    const void * str_b )
```

Compare two utf8-encoded strings ignoring all symbols except letters and case-insensitively and return negative, zero or positive value if first string is less, equal or greater than second string in terms of lexicographical order.

4.2.1.3 `unicode_rev_lex_cmp()`

```
int unicode_rev_lex_cmp (
    const void * str_a,
    const void * str_b )
```

Compare two utf8-encoded strings ignoring all symbols except letters and case-insensitively and return negative, zero or positive value if first string is less, equal or greater than second string in terms of reversed lexicographical order.

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