

Pessum

2.0

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# Chapter 1

## Namespace Index

### 1.1 Namespace List

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

<a href="#">pessum</a>	Core namespace for all pessum methods . . . . .	<a href="#">3</a>
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## Chapter 2

# Namespace Documentation

### 2.1 pessum Namespace Reference

Core namespace for all pessum methods.

#### Enumerations

- enum [LogType](#) {  
    [ERROR](#), [WARNING](#), [TRACE](#), [DEBUG](#),  
    [SUCCESS](#), [INFO](#), [DATA](#), [NONE](#) }  
    *LogType enum.*

#### Functions

- void [Log](#) (int type=[TRACE](#), std::string msg="", std::string func="",...)  
    *Log output member.*
- std::pair< int, std::string > [FGetLog](#) (int type)  
    *Get log entry; full.*
- std::string [GetLog](#) (int type)  
    *Get log entry.*
- std::pair< int, std::string > [IFGetLog](#) (int index)  
    *Get log entry; full index.*
- std::string [IGetLog](#) (int index)  
    *Get log entry; index.*
- std::vector< std::pair< int, std::string > > [VFGetLog](#) (int start, int end)  
    *Get log entry; full vector.*
- std::vector< std::string > [VGetLog](#) (int start, int end)  
    *Get log entry; vector.*
- void [SetLogHandle](#) (void(\*handle)(std::pair< int, std::string >))  
    *Set log handle full.*
- void [SetLogHandle](#) (void(\*handle)(std::string))  
    *Set log handle.*
- std::string [GetTypeStr](#) (int type)  
    *Get type string from type int.*
- void [SaveLog](#) (std::string file)  
    *Saves log entries to file.*

## Variables

- `std::vector< std::pair< int, std::string > >` [global\\_logs](#)
- `void(* log\_handle\_full )(std::pair< int, std::string >) = NULL`
- `void(* log\_handle )(std::string) = NULL`

### 2.1.1 Detailed Description

Core namespace for all pessum methods.

### 2.1.2 Enumeration Type Documentation

#### 2.1.2.1 enum pessum::LogType

LogType enum.

Enum of log types for different situations.

#### Enumerator

**ERROR** Error log type  
**WARNING** Warning log type  
**TRACE** Trace log type, for finding position in the program  
**DEBUG** Debug log type, for final debugging  
**SUCCESS** Success log type  
**INFO** Info log type, for program information  
**DATA** Data log type, for data output  
**NONE** No log type

### 2.1.3 Function Documentation

#### 2.1.3.1 `std::pair< int, std::string > pessum::FGetLog ( int type )`

Get log entry; full.

Gets last log entry of specified type with full information.

#### Parameters

<i>type</i>	The type of log entry to find
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#### Returns

Pair of log type and formatted string of log entry



See also

[GetLog\(\)](#)

#### 2.1.3.2 `std::string pessum::GetLog ( int type )`

Get log entry.

Gets last log entry of specified type with formatted string.

Parameters

<i>type</i>	The type of log entry to find
-------------	-------------------------------

Returns

Formatted string of log entry

See also

[FGetLog\(\)](#)

#### 2.1.3.3 `std::string pessum::GetTypeStr ( int type )`

Get type string from type int.

Determines the string corisponding to type int

Parameters

<i>type</i>	Type in to convert to string
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Returns

String corisponding to type int

See also

[LogType](#)

#### 2.1.3.4 `std::pair< int, std::string > pessum::IFGetLog ( int index )`

Get log entry; full index.

Gets last log entry of specified index with full information.

**Parameters**

<i>index</i>	The log entry index from <code>global_logs</code>
--------------	---

**Returns**

Pair of log type and formatted string of log entry

**See also**

[IGetLog\(\)](#)

**2.1.3.5 `std::string pessum::IGetLog ( int index )`**

Get log entry; index.

Gets last log entry of specified index with full information.

**Parameters**

<i>index</i>	The log entry index from <code>global_logs</code>
--------------	---

**Returns**

Formatted string of log entry

**See also**

[IFGetLog\(\)](#)

**2.1.3.6 `void pessum::Log ( int type = TRACE, std::string msg = " ", std::string func = " ", ... )`**

Log output member.

Function for all logging output. Log entry is saved to `global_logs`.

**Parameters**

<i>type</i>	The type of log entry
<i>msg</i>	Format string of log entry
<i>func</i>	The name of the function creating the log entry
...	Additional formatting args

**See also**

[global\\_logs](#), [GetLog\(\)](#)

### 2.1.3.7 void pessum::SaveLog ( std::string *file* )

Saves log entries to file.

Saves the log entries from `global_log` to specified file path

Parameters

<i>file</i>	Path to file to output to log, defaults to "output.log"
-------------	---

See also

[global\\_logs](#)

### 2.1.3.8 void pessum::SetLogHandle ( void(\*)(std::pair< int, std::string >) *handle* )

Set log handle full.

Sets `log_handle_full` with specified function pointer

Parameters

<i>handle</i>	Pointer to function with return of void and args of a pair of int and string
---------------	--

See also

[log\\_handle\\_full](#)

### 2.1.3.9 void pessum::SetLogHandle ( void(\*)(std::string) *handle* )

Set log handle.

Sets `log_handle` with specified function pointer

Parameters

<i>handle</i>	Pointer to function with return of void and args of a string
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See also

[log\\_handle\\_full](#)

### 2.1.3.10 std::vector< std::pair< int, std::string > > pessum::VFGetLog ( int *start*, int *end* )

Get log entry; full vector.

Gets a set of log entries between specified start and end index with full information.

**Parameters**

<i>start</i>	The first index value
<i>end</i>	The last index value

**Returns**

vector of pairs of log types and formatted strings

**See also**

[VGetLog\(\)](#)

**2.1.3.11** `std::vector< std::string > pessum::VGetLog ( int start, int end )`

Get log entry; vector.

Gets a set of log entries between specified start and end index with formatted string.

**Parameters**

<i>start</i>	The first index value
<i>end</i>	The last index value

**Returns**

vector of formatted strings

**See also**

[VFGetLog\(\)](#)

**2.1.4 Variable Documentation**

**2.1.4.1** `std::vector< std::pair< int, std::string > > pessum::global_logs`

Vector storing all previously called log outputs

**2.1.4.2** `void(* pessum::log_handle)(std::string) = NULL`

Pointer to function for handling logs with only formatted string

**2.1.4.3** `void(* pessum::log_handle_full)(std::pair< int, std::string >) = NULL`

Pointer to function for handling log calls with full log information

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