HashTable

0.1

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Contents

1 glossygloss **1**

2 Hierarchical Index **3**

2.1 Class Hierarchy . . . 3

3 Class Index **5**

3.1 Class List . . . 5

4 File Index **7**

4.1 File List . . . 7

5 Class Documentation **9**

5.1 Alveole Class Reference . . . 9

5.1.1 Detailed Description . . . 9

5.1.2 Constructor & Destructor Documentation . . . 9

5.1.2.1 Alveole . . . 9

5.1.2.2 Alveole . . . 9

5.1.3 Member Function Documentation . . . 9

5.1.3.1 _next . . . 9

5.1.3.2 _value . . . 10

5.2 HashException Class Reference . . . 10

5.2.1 Detailed Description . . . 10

5.2.2 Constructor & Destructor Documentation . . . 10

5.2.2.1 HashException . . . 10

5.2.2.2 ∼BagException . . . 10

5.2.3 Member Function Documentation . . . 10

5.2.3.1 what . . . 10

5.3 Knot Class Reference . . . 11

5.3.1 Constructor & Destructor Documentation . . . 11

5.3.1.1 Knot . . . 11

5.3.1.2 Knot . . . 11

5.3.1.3 ∼Knot . . . 11

5.3.2 Member Function Documentation . . . 11

5.3.2.1 append 11
5.3.2.2 height 11
5.3.2.3 isLeaf 11
5.3.2.4 operator!= 11
5.3.2.5 operator= 11
5.3.2.6 operator== 11
5.3.2.7 remove 11
5.3.2.8 toString 11

6 File Documentation 13
6.1 HashException.hpp File Reference 13
6.1.1 Detailed Description 13
6.1.2 File description 13
6.1.3 Copyright 13
6.1.4 File informations 13
6.2 HashTable.hpp File Reference 13
6.2.1 Detailed Description 14
6.2.2 File description 14
6.2.3 Copyright 14
6.2.4 File informations 14
6.2.5 Macro Definition Documentation 14
6.2.5.1 END 14
6.3 README.md File Reference 14
6.4 tree.hpp File Reference 14

Index 16

Chapter 1

glossygloss

Glossygloss est un petit programme écrit en C++ permettant de stocker dans un dictionnaire un mot associé à une valeur.

Usefull : `http://fr.wikibooks.org/wiki/Programmation_C%2B%2B`

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Alveole 9
exception
    HashException 10
Knot 11

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Alveole 9
HashException 10
Knot 11

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

HashException.hpp 13
HashTable.hpp 13
tree.hpp 14

Chapter 5

Class Documentation

5.1 Alveole Class Reference

```
#include <HashTable.hpp>
```

Public Member Functions

- Alveole (const Alveole< K, V > &other)
- Alveole (K key, V value) _key(key)
- _value (value)
- _next (END)

5.1.1 Detailed Description

Alveole class embodies a hashtable's alveole. An alveole store a pair <k,v>. Alveoles are simply-linked elements.

5.1.2 Constructor & Destructor Documentation

5.1.2.1 Alveole::Alveole (const Alveole< K, V > & *other*) [inline]

Copy constructor

Parameters

in	*other*	the alveole to copy

5.1.2.2 Alveole::Alveole (K *key,* V *value*)

pair constructor

Parameters

in	*key*	key of the pair
in	*value*	value of the pair

5.1.3 Member Function Documentation

5.1.3.1 Alveole::_next (END) [inline]

5.1.3.2 Alveole::_value (value)

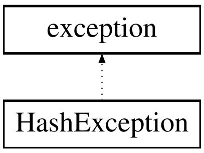
The documentation for this class was generated from the following file:

- HashTable.hpp

5.2 HashException Class Reference

```
#include <HashException.hpp>
```

Inheritance diagram for HashException:



Public Member Functions

- HashException (char ∗cause) _cause(cause)
- virtual ∼BagException () throw ()
- virtual const char ∗ what () const throw ()

5.2.1 Detailed Description

Exception class to manage hashtable errors

5.2.2 Constructor & Destructor Documentation

5.2.2.1 HashException::HashException (char ∗ *cause*) [inline]

constructor called then HashExceptions are threw

Parameters

in	*cause*	description of exception origin

5.2.2.2 virtual HashException::∼BagException ( ) throw) [inline], [virtual]

destructor currently, do anything special

5.2.3 Member Function Documentation

5.2.3.1 virtual const char∗ HashException::what ( ) const throw) [inline], [virtual]

virtual fonction from superclass, usefull to get the exception description

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

- HashException.hpp

5.3 Knot Class Reference

```
#include <tree.hpp>
```

Public Member Functions

- Knot (const Knot< T > &)
- Knot (T)
- ∼Knot ()
- Knot< T > & operator= (Knot< T >)
- bool operator== (const Knot< T > &, const Knot< T > &)
- bool operator!= (const Knot< T > &, const Knot< T > &)
- bool isLeaf ()
- int height ()
- void append (< T >)
- void remove (< T >)
- string toString ()

5.3.1 Constructor & Destructor Documentation

5.3.1.1 Knot::Knot (const Knot< T > &)

5.3.1.2 Knot::Knot (T)

5.3.1.3 Knot::∼Knot ( )

5.3.2 Member Function Documentation

5.3.2.1 void Knot::append (< T >)

5.3.2.2 int Knot::height ( )

5.3.2.3 bool Knot::isLeaf ( )

5.3.2.4 bool Knot::operator!= (const Knot< T > & , const Knot< T > &)

5.3.2.5 Knot<T>& Knot::operator= (Knot< T >)

5.3.2.6 bool Knot::operator== (const Knot< T > & , const Knot< T > &)

5.3.2.7 void Knot::remove (< T >)

5.3.2.8 string Knot::toString ( )

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

- tree.hpp

Chapter 6

File Documentation

6.1 HashException.hpp File Reference

```
#include <string>
```

Classes

- class HashException

6.1.1 Detailed Description

6.1.2 File description

Exception class for hash classes.

6.1.3 Copyright

This source code is protected by the French intellectual property law.

6.1.4 File informations

$Date$ 2014/03/27 $Rev$ 0.1 $Author$ Benjamin Sientzoff $URL$ `http://www.github.com/blasterbug`

6.2 HashTable.hpp File Reference

```
#include <string>
#include "HashException.hpp"
```

Classes

- class Alveole

Macros

- #define END 0

6.2.1 Detailed Description

6.2.2 File description

data structure to store pair in a table a hashcode is compute with k to evaluate the suitable place to store the pair

!! WARNING: int hashCode(K key) must be implemented !!

6.2.3 Copyright

6.2.4 File informations

$Date$ 2014/03/27 Rev 0.1 $Author$ Benjamin Sientzoff URL `http://www.github.com/blasterbug`

6.2.5 Macro Definition Documentation

6.2.5.1 #define END 0

6.3 README.md File Reference

6.4 tree.hpp File Reference

```
#include <string>
#include <list>
#include "Alist.hpp"
#include "HashWord.tpp"
```

Classes

- class Knot

Index

~BagException
    HashException, 10
~Knot
    Knot, 11
_next
    Alveole, 9
_value
    Alveole, 9

Alveole, 9
    _next, 9
    _value, 9
    Alveole, 9
append
    Knot, 11

END
    HashTable.hpp, 14

HashException, 10
    ~BagException, 10
    HashException, 10
    HashException, 10
    what, 10
HashException.hpp, 13
HashTable.hpp, 13
    END, 14
height
    Knot, 11

isLeaf
    Knot, 11

Knot, 11
    ~Knot, 11
    append, 11
    height, 11
    isLeaf, 11
    Knot, 11
    operator=, 11
    operator==, 11
    remove, 11
    toString, 11

operator=
    Knot, 11
operator==
    Knot, 11

README.md, 14
remove
    Knot, 11

toString
    Knot, 11
tree.hpp, 14

what
    HashException, 10