

CFStringComparators

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Chapter 1

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Chapter 2

Namespace Index

2.1 Namespace List

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

[CaseInsensitive](#)

[CaseInsensitive](#) is a part of the [CFStringComparators](#) C++ comparator expansion pack that provides case insensitive `std::string` comparators for use with standard C++ data structures

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[CFStringComparators](#)

[CFStringComparators](#) is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc)

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Chapter 3

Class Index

3.1 Class List

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

[CFStringComparators::CaseInsensitive::Equality](#)

Function object used to compare two `std::string` objects in order to determine equality of their contents 11

[CFStringComparators::CaseInsensitive::Sort](#)

Function object used to compare two `std::string` objects in order to determine sort order 12

Chapter 4

File Index

4.1 File List

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

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Chapter 5

Namespace Documentation

5.1 CaseInsensitive Namespace Reference

[CaseInsensitive](#) is a part of the [CFStringComparators](#) C++ comparator expansion pack that provides case insensitive `std::string` comparators for use with standard C++ data structures.

5.1.1 Detailed Description

[CaseInsensitive](#) is a part of the [CFStringComparators](#) C++ comparator expansion pack that provides case insensitive `std::string` comparators for use with standard C++ data structures.

5.2 CFStringComparators Namespace Reference

[CFStringComparators](#) is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

5.2.1 Detailed Description

[CFStringComparators](#) is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

Chapter 6

Class Documentation

6.1 CFStringComparators::CaseInsensitive::Equality Class Reference

Function object used to compare two `std::string` objects in order to determine equality of their contents.

```
#include <Equality.hpp>
```

Public Member Functions

- `bool operator()` (`const std::string &lhs, const std::string &rhs`) `const`
Compares two strings in a case-insensitive manner to determine equality.

6.1.1 Detailed Description

Function object used to compare two `std::string` objects in order to determine equality of their contents.

This object implements the function call operator to provide a callable class interface for string comparison.

See also

`Equality::operator()` for details regarding actual string comparison.

6.1.2 Member Function Documentation

6.1.2.1 `bool CFStringComparators::CaseInsensitive::Equality::operator()` (`const std::string &lhs, const std::string &rhs`) `const`

Compares two strings in a case-insensitive manner to determine equality.

By making use of the `strncasecmp()` POSIX function, one can define a custom comparator for strings that is case-insensitive and memory-safe

This method for comparing strings is *probably not* Unicode compatible

See also

`strncasecmp()` for more details on string comparison

Returns

`true` if both strings are equal, `false` otherwise

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

- `CaseInsensitive/Equality.hpp`
- `CaseInsensitive/Equality.cpp`

6.2 CFStringComparators::CaseInsensitive::Sort Class Reference

Function object used to compare two `std::string` objects in order to determine sort order.

```
#include <Sort.hpp>
```

Public Member Functions

- `bool operator() (const std::string &lhs, const std::string &rhs) const`
Compares two strings in a case-insensitive manner to determine sort order.

6.2.1 Detailed Description

Function object used to compare two `std::string` objects in order to determine sort order.

This object implements the function call operator to provide a callable class interface for string comparison.

See also

`Sort::operator() ()` for details regarding actual string comparison.

6.2.2 Member Function Documentation

6.2.2.1 `bool CFStringComparators::CaseInsensitive::Sort::operator() (const std::string & lhs, const std::string & rhs) const`

Compares two strings in a case-insensitive manner to determine sort order.

By making use of the `strncasecmp()` POSIX function, one can define a custom comparator for strings that is case-insensitive and memory-safe (only measuring up to the smallest string's length)

This method for comparing strings is *probably not* Unicode compatible

See also

`strncasecmp()` for more details on string comparison

Returns

`true` if the left string sorts before the other, `false` otherwise

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

- [CaseInsensitive/Sort.hpp](#)
- [CaseInsensitive/Sort.cpp](#)

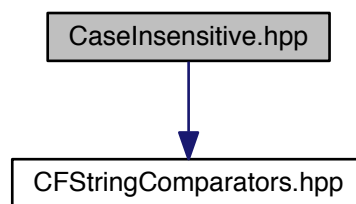
Chapter 7

File Documentation

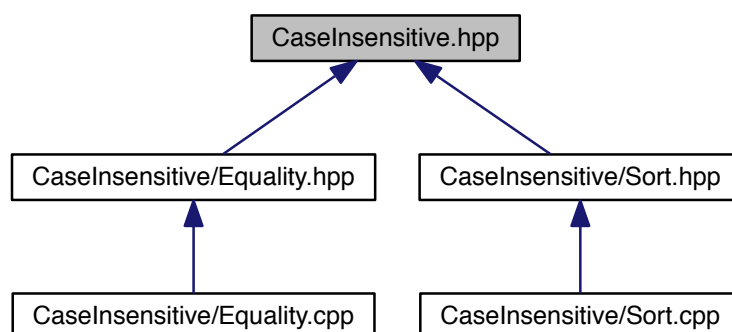
7.1 CaseInsensitive.hpp File Reference

```
#include "CFStringComparators.hpp"
```

Include dependency graph for CaseInsensitive.hpp:



This graph shows which files directly or indirectly include this file:



Namespaces

- [CFStringComparators](#)

CFStringComparators is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

- [CaseInsensitive](#)

CaseInsensitive is a part of the *CFStringComparators* C++ comparator expansion pack that provides case insensitive `std::string` comparators for use with standard C++ data structures.

7.1.1 Detailed Description

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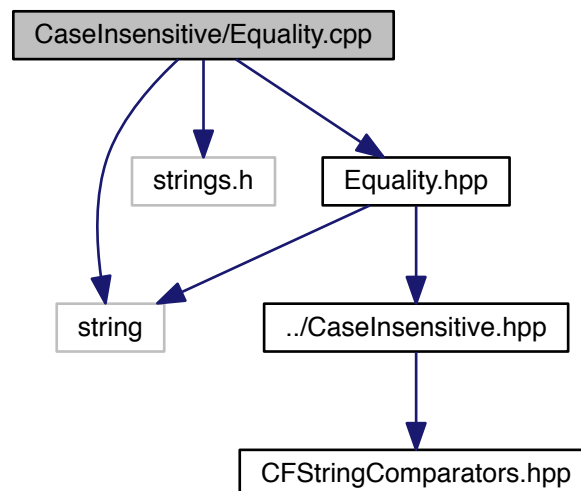
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Forward declaration of the [CaseInsensitive](#) namespace and related items.

7.2 CaseInsensitive/Equality.cpp File Reference

```
#include <string>
#include <strings.h>
#include "Equality.hpp"
Include dependency graph for Equality.cpp:
```



Namespaces

- [CFStringComparators](#)

CFStringComparators is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

7.2.1 Detailed Description

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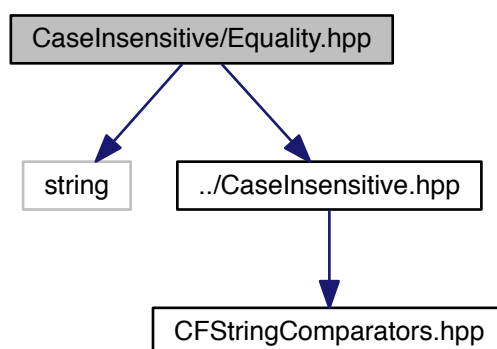
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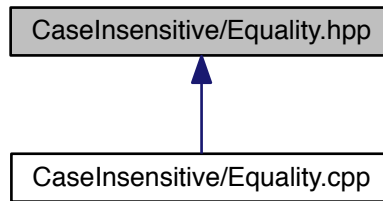
Implementation source for the `Equality` object.

7.3 CaseInsensitive/Equality.hpp File Reference

```
#include <string>
#include "../CaseInsensitive.hpp"
Include dependency graph for Equality.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

- class [CFStringComparators::CaseInsensitive::Equality](#)
Function object used to compare two `std::string` objects in order to determine equality of their contents.

Namespaces

- [CFStringComparators](#)
`CFStringComparators` is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

7.3.1 Detailed Description

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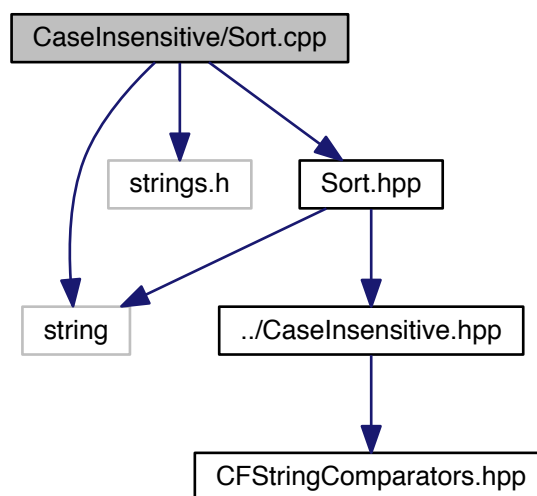
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Implementation reference for the `Equality` object.

7.4 CaseInsensitive/Sort.cpp File Reference

```
#include <string>
#include <strings.h>
#include "Sort.hpp"
```

Include dependency graph for Sort.cpp:



Namespaces

- [CFStringComparators](#)

[CFStringComparators](#) is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

7.4.1 Detailed Description

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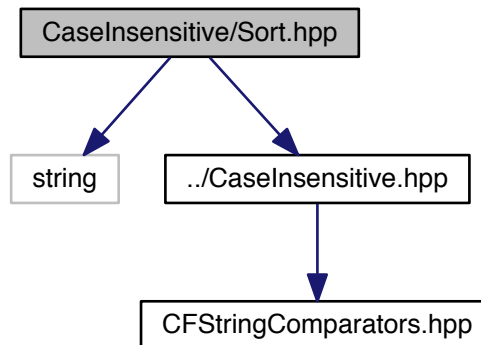
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Implementation source for the `Sort` object.

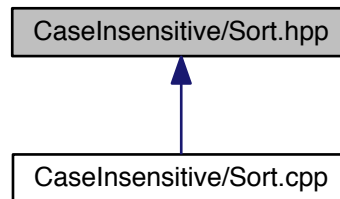
7.5 CaseInsensitive/Sort.hpp File Reference

```
#include <string>
#include "../CaseInsensitive.hpp"
```

Include dependency graph for Sort.hpp:



This graph shows which files directly or indirectly include this file:



Classes

- class [CFStringComparators::CasInsensitive::Sort](#)

Function object used to compare two `std::string` objects in order to determine sort order.

Namespaces

- [CFStringComparators](#)

[CFStringComparators](#) is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

7.5.1 Detailed Description

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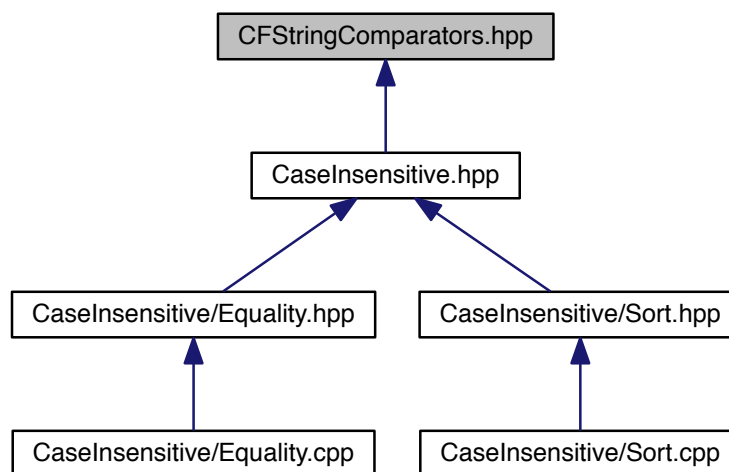
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Implementation reference for the `Sort` object.

7.6 CFStringComparators.hpp File Reference

This graph shows which files directly or indirectly include this file:



Namespaces

- [`CFStringComparators`](#)

`CFStringComparators` is a C++ comparator expansion pack that provides extra `std::string` comparators for use with standard C++ data structures (`std::map`, `std::set`, etc).

7.6.1 Detailed Description

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Forward declaration of the `CFStringComparators` namespace and related items.

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