Common Utils

1.0

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utility

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Chapter 2

Namespace Index

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Chapter 3

Class Index

3.1 Class List

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

cbtek::common::utility::StringUtils::CaseInsensitiveEqual < T >	
The CaseInsensitiveEqual struct	ç
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cbtek::common::utility::ColorFactory	15
cbtek::common::utility::ColorLoop	18
cbtek::common::utility::DateEntity	
Single date object for use in DateTimeUtils and DateUtils	20
cbtek::common::utility::DateTimeUtils	25
cbtek::common::utility::DateTimeUtils_EmbeddedUtils	
This embedded class contains utilities in support of DateTimeUtils Although the DRY is violated,	
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Chapter 4

Namespace Documentation

4.1 cbtek Namespace Reference

4.1.1 Detailed Description

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Chapter 5

Class Documentation

5.1 cbtek::common::utility::StringUtils::CaseInsensitiveEqual< T > Struct Template Reference

The CaseInsensitiveEqual struct.

```
#include <StringUtils.hpp>
```

Public Member Functions

- CaseInsensitiveEqual (const T &str)
- bool operator() (const T &strIn)

5.1.1 Detailed Description

```
\label{template} \mbox{template} < \mbox{typename T} > \\ \mbox{struct cbtek::common::utility::StringUtils::CaseInsensitiveEqual} < \mbox{T} > \\ \mbox{typename T} > \\ \mbox{ty
```

The CaseInsensitiveEqual struct.

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

• common/utility/inc/StringUtils.hpp

5.2 cbtek::common::utility::Color Class Reference

Public Member Functions

• Color ()

Color Constructor for this class.

• Color (std::uint32 t color)

Color Constructor for this class.

Color (const std::string &rgbaHex)

Color Constructor for this class.

Color (const std::string &name, const uint8_t &red, const uint8_t &green, const uint8_t &blue, const uint8_t &alpha=255)

Color Constructor for this class.

Color (const uint8 t &red, const uint8 t &green, const uint8 t &blue, const uint8 t &alpha=255)

Color Constructor for this class.

void set (const uint8_t &red, const uint8_t &green, const uint8_t &blue, const uint8_t &alpha=255)

set Sets the color using rgba components

void set (const std::string &htmlColor)

set Sets the color from a html string

void setRed (const uint8_t &red)

setRed Sets the red component

void setGreen (const uint8_t &green)

setGreen Sets the green component

void setBlue (const uint8 t &blue)

setBlue Sets the blue component

void setAlpha (const uint8_t &alpha)

setAlpha Sets the alpha component

• std::uint32 t toInteger () const

toInteger Converts color to 32-bit numeric value

• bool operator== (const Color &color) const

operator == Determine if two colors are equalbool operator!= (const Color &color) const

operator != Determine if two colors are not equal

• uint8_t getRed () const

getRed Gets the red component

• uint8_t getGreen () const

getGreen Gets the green component

• uint8_t getBlue () const

getBlue Gets the blue component

• uint8_t getAlpha () const

getAlpha Gets the alpha component

bool isTransparent () const

isTransparent Return true if color can be considered transparent

• std::string toString (const ColorStringStyle &style=ColorStringStyle::RGBA_255) const

toString Convert color to string

• std::string getName () const

getName Get the name of this color

void setName (const std::string &name)

setName Sets name for current color

5.2.1 Constructor & Destructor Documentation

5.2.1.1 cbtek::common::utility::Color::Color (std::uint32_t color)

Color Constructor for this class.

Parameters

color	32-bit color defined as 8 bit components of RGBA
-------	--

5.2.1.2 cbtek::common::utility::Color::Color (const std::string & rgbaHex)

Color Constructor for this class.

Parameters

	rgbaHex	Hexadecimal string representing the color to be set upon construction	
--	---------	---	--

5.2.1.3 cbtek::common::utility::Color::Color (const std::string & name, const uint8_t & red, const uint8_t & green, const uint8_t & blue, const uint8_t & alpha = 255)

Color Constructor for this class.

Parameters

name	String name/id for the color
red	8-bit red component for this color [0-255]
green	8-bit green component for this color [0-255]
blue	8-bit blue component for this color [0-255]
alpha	8-bit opacity component for this color [0-255] Higher value results in less transparency

5.2.1.4 cbtek::common::utility::Color::Color (const uint8_t & red, const uint8_t & green, const uint8_t & blue, const uint8_t & alpha = 255)

Color Constructor for this class.

Parameters

red	8-bit red component for this color [0-255]
green	8-bit green component for this color [0-255]
blue	8-bit blue component for this color [0-255]
alpha	8-bit opacity component for this color [0-255] Higher value results in less transparency

```
5.2.2 Member Function Documentation
5.2.2.1 uint8_t cbtek::common::utility::Color::getAlpha ( ) const
getAlpha Gets the alpha component
Returns
      8-bit alpha component value
5.2.2.2 uint8_t cbtek::common::utility::Color::getBlue ( ) const
getBlue Gets the blue component
Returns
      8-bit blue component value
5.2.2.3 uint8_t cbtek::common::utility::Color::getGreen ( ) const
getGreen Gets the green component
Returns
      8-bit green component value
5.2.2.4 std::string cbtek::common::utility::Color::getName ( ) const
getName Get the name of this color
Returns
      Return name of color
5.2.2.5 uint8_t cbtek::common::utility::Color::getRed ( ) const
getRed Gets the red component
Returns
      8-bit red component value
5.2.2.6 bool cbtek::common::utility::Color::isTransparent ( ) const
isTransparent Return true if color can be considered transparent
Returns
      Return true if transparent, false otherwise
5.2.2.7 bool cbtek::common::utility::Color::operator!= ( const Color & color ) const
operator != Determine if two colors are not equal
```

Parameters

Returns

Return true if colors don't match, false otherwise

5.2.2.8 bool cbtek::common::utility::Color::operator== (const Color & color) const

operator == Determine if two colors are equal

Parameters

Returns

Return true if colors match, false otherwise

5.2.2.9 void cbtek::common::utility::Color::set (const uint8_t & red, const uint8_t & green, const uint8_t & blue, const uint8_t & alpha = 255)

set Sets the color using rgba components

Parameters

red	8-bit red component for this color [0-255]
green	8-bit green component for this color [0-255]
blue	8-bit blue component for this color [0-255]
alpha	8-bit opacity component for this color [0-255] Higher value results in less transparency

5.2.2.10 void cbtek::common::utility::Color::set (const std::string & htmlColor)

set Sets the color from a html string

Parameters

htmlColor The string containing color information (e.g #AAFFCC, #abc, #ef41af)

5.2.2.11 void cbtek::common::utility::Color::setAlpha (const uint8_t & alpha)

setAlpha Sets the alpha component

Parameters

Alpha intensity value for the alpha component [0-255]

5.2.2.12 void cbtek::common::utility::Color::setBlue (const uint8_t & blue)

setBlue Sets the blue component

Parameters

Blue intensity value for the blue component [0-255]

5.2.2.13 void cbtek::common::utility::Color::setGreen (const uint8_t & green)

setGreen Sets the green component

Parameters

Green intensity value for the green component [0-255]

5.2.2.14 void cbtek::common::utility::Color::setName (const std::string & name)

setName Sets name for current color

Parameters

name String representing name

5.2.2.15 void cbtek::common::utility::Color::setRed (const uint8_t & red)

setRed Sets the red component

Parameters

Red intensity value for the red component [0-255]

5.2.2.16 std::uint32_t cbtek::common::utility::Color::toInteger () const

toInteger Converts color to 32-bit numeric value

Returns

Integer of converted color

5.2.2.17 std::string cbtek::common::utility::Color::toString (const ColorStringStyle & style = ColorStringStyle::RGBA_255) const

toString Convert color to string

Parameters

style Use string style in ColorStringStyle

Returns

Converted string

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

- · common/utility/inc/ColorUtils.h
- · common/utility/src/ColorUtils.cpp

5.3 cbtek::common::utility::ColorFactory Class Reference

Static Public Member Functions

• static Color create (const std::string &rgba)

create

• static Color create (const colors::ColorType &color)

create

• static Color create (const float &r, const float &g, const float &b, const float &a=1.0f)

create

static Color createNextColor ()

createNextColor

• static Color createRandomNamedColor ()

createRandomNamedColor

static Color createRandomColor ()

createRandomColor

• static Color createRandomDarkColor ()

createRandomDarkColor

static Color createRandomLightColor ()

createRandomLightColor

• static void resetNextColor ()

resetNextColor

5.3.1 Member Function Documentation

5.3.1.1 Color cbtek::common::utility::ColorFactory::create (const std::string & rgba) [static]

create

16	Class Documentation
Parameters	
rgba	
Returns	
5.3.1.2 Color cbtek::common::utility::ColorFactory::create (const colors::ColorType & color)	[static]
create	
Parameters	
color	
Returns	
5.3.1.3 Color cbtek::common::utility::ColorFactory::create (const float & r, const float & g, co 1.0f) [static]	onst float & b, const float & a =
create	
Parameters	
r	
a	
Returns	
5.3.1.4 Color cbtek::common::utility::ColorFactory::createNextColor() [static]	
createNextColor	
Returns	

5.3.1.5	Color cbtek::common::utility::ColorFactory::createRandomColor() [static]
createF	RandomColor
Returns	
5.3.1.6	Color cbtek::common::utility::ColorFactory::createRandomDarkColor() [static]
createF	RandomDarkColor
Returns	
5.3.1.7	Color cbtek::common::utility::ColorFactory::createRandomLightColor() [static]
createF	RandomLightColor
Returns	
5.3.1.8	Color cbtek::common::utility::ColorFactory::createRandomNamedColor() [static]
createF	RandomNamedColor
Returns	
The do	cumentation for this class was generated from the following files:

common/utility/inc/ColorUtils.hcommon/utility/src/ColorUtils.cpp

5.4 cbtek::common::utility::ColorLoop Class Reference

Public Member Functions

Returns

```
    ColorLoop & operator<< (const Color &color)</li>

          operator <<

    ColorLoop & operator<< (const colors::ColorType &colorType)</li>

          operator <<
    • ColorLoop & operator << (const colorFunctions::ColorFunction &function)
          operator <<

    void generateUniqueColors (const size_t &count)

          generateUniqueColors

    Color getNextColor ()

          getNextColor
    • void reset ()
          reset
    • void clear ()
          clear

    Color getColorAt (size_t ndx) const

          getColorAt
    • size_t getCurrentColorNdx () const
          getCurrentColorNdx

    void setCurrentColorNdx (size_t ndx)

          setCurrentColorNdx
5.4.1
       Member Function Documentation
5.4.1.1 void cbtek::common::utility::ColorLoop::generateUniqueColors ( const size_t & count )
generateUniqueColors
Parameters
 count
5.4.1.2 Color cbtek::common::utility::ColorLoop::getColorAt ( size_t ndx ) const
getColorAt
Parameters
 ndx
```

5.4.1.3 size_t cbtek::common::utility::ColorLoop::getCurrentColorNdx () const
getCurrentColorNdx
Returns
5.4.1.4 Color cbtek::common::utility::ColorLoop::getNextColor()
getNextColor
Returns
5.4.1.5 ColorLoop & cbtek::common::utility::ColorLoop::operator<< (const Color & color)
operator <<
Parameters color
Returns
5.4.1.6 ColorLoop & cbtek::common::utility::ColorLoop::operator << (const colors::ColorType & colorType)
operator <<
Parameters colorType
Returns
5.4.1.7 ColorLoop & cbtek::common::utility::ColorLoop::operator<< (const colorFunctions::ColorFunction & function)
operator <<

Parameters

function

Returns

5.4.1.8 void cbtek::common::utility::ColorLoop::setCurrentColorNdx (size_t ndx)

setCurrentColorNdx

Parameters

ndx

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

- · common/utility/inc/ColorUtils.h
- · common/utility/src/ColorUtils.cpp

5.5 cbtek::common::utility::DateEntity Class Reference

The DateEntity class represents a single date object for use in DateTimeUtils and DateUtils.

#include <DateTimeUtils.hpp>

Public Member Functions

• DateEntity ()

DateEntity (Constructor) Default.

DateEntity (const size_t &month, const size_t &day, const size_t &year)

DateEntity (Constructor) Send in integer components for month, day and year.

DateEntity (const size_t &dateInteger)

DateEntity (Constructor) Send in integer containing date components in form of YYYYMMDD.

• size_t getMonth () const

getMonth Gets the month value

size_t getDay () const

getDay Gets the day value

• size_t getYear () const

getYear Gets the year value

void setMonth (const size_t &month)

setMonth Sets the month value

void setDay (const size t &day)

setDay Sets the day value

void setYear (const size_t &year)

setYear Sets the year value

• size_t toDateInteger () const

toDateInteger Converts date object into unique integer

• bool operator< (const DateEntity &date) const

operator< Checks if date is less than or equal to (*this)

bool operator<= (const DateEntity &date) const

operator<= Checks if date is less than or equal to (*this)

bool operator> (const DateEntity &date) const

operator> Checks if date is greater than to (*this)

bool operator>= (const DateEntity &date) const

operator> = Checks if date is greater than or equal to (*this)

bool operator== (const DateEntity &date) const

operator!= Checks if date is equal to (*this)

bool operator!= (const DateEntity &date) const

operator!= Checks if date is not equal to (*this)

size_t operator- (const DateEntity &date) const

operator- Get number of days between two dates

• bool isLeapYear () const

isLeapYear Determine if current year is leap year

size_t getDays () const

getDays() Gets number of days since beginning of year

5.5.1 Detailed Description

The DateEntity class represents a single date object for use in DateTimeUtils and DateUtils.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 cbtek::common::utility::DateEntity::DateEntity (const size_t & month, const size_t & day, const size_t & year)
[inline]

DateEntity (Constructor) Send in integer components for month, day and year.

Parameters

month	The month to set
day	The day to set
year	The year to set

5.5.2.2 cbtek::common::utility::DateEntity::DateEntity (const size_t & dateInteger) [inline]

DateEntity (Constructor) Send in integer containing date components in form of YYYYMMDD.

Parameters

dateInteger	The date components to set
-------------	----------------------------

```
5.5.3
       Member Function Documentation
5.5.3.1 size_t cbtek::common::utility::DateEntity::getDay( ) const [inline]
getDay Gets the day value
Returns
      Returns the day value
5.5.3.2 size_t cbtek::common::utility::DateEntity::getDays( ) const [inline]
getDays() Gets number of days since beginning of year
Returns
      Total number of days since beginning of year
5.5.3.3 size_t cbtek::common::utility::DateEntity::getMonth( ) const [inline]
getMonth Gets the month value
Returns
      Returns the month value
5.5.3.4 size_t cbtek::common::utility::DateEntity::getYear( ) const [inline]
getYear Gets the year value
Returns
      Returns the year value
5.5.3.5 bool cbtek::common::utility::DateEntity::isLeapYear( ) const [inline]
isLeapYear Determine if current year is leap year
Returns
      Returns true if leap year, false otherwise
5.5.3.6 bool cbtek::common::utility::DateEntity::operator!=( const DateEntity & date ) const [inline]
operator!= Checks if date is not equal to (*this)
```

Parameters

date The date to compare against	
----------------------------------	--

Returns

True if dates are not equal, false otherwise

5.5.3.7 size_t cbtek::common::utility::DateEntity::operator-(const DateEntity & date) const [inline]

operator- Get number of days between two dates

Parameters

date	The second date to subtract from
------	----------------------------------

Returns

Total number of days between this->m_day and date.getDay()

5.5.3.8 bool cbtek::common::utility::DateEntity::operator<(const DateEntity & date) const [inline]

operator< Checks if date is less than or equal to (*this)

Parameters

date	The date to compare against

Returns

True if (*this) is less than date, false otherwise

5.5.3.9 bool cbtek::common::utility::DateEntity::operator<= (const DateEntity & date) const [inline]

operator<= Checks if date is less than or equal to (*this)

Parameters

date	The date to compare against

Returns

True if (*this) is less than or equal to date, false otherwise

5.5.3.10 bool cbtek::common::utility::DateEntity::operator== (const DateEntity & date) const [inline]

operator!= Checks if date is equal to (*this)

Parameters

date	The date to compare against
------	-----------------------------

Returns

True if dates are equal, false otherwise

5.5.3.11 bool cbtek::common::utility::DateEntity::operator> (const DateEntity & date) const [inline]

operator> Checks if date is greater than to (*this)

Parameters

date	The date to compare against

Returns

True if (*this) is greater than to date, false otherwise

5.5.3.12 bool cbtek::common::utility::DateEntity::operator>=(const DateEntity & date) const [inline]

operator>= Checks if date is greater than or equal to (*this)

Parameters

date	The date to compare against
------	-----------------------------

Returns

True if (*this) is greater than or equal to date, false otherwise

5.5.3.13 void cbtek::common::utility::DateEntity::setDay (const size_t & day) [inline]

setDay Sets the day value

Parameters

day	The day to set
-----	----------------

5.5.3.14 void cbtek::common::utility::DateEntity::setMonth (const size_t & month) [inline]

setMonth Sets the month value

Parameters

month The month to set

5.5.3.15 void cbtek::common::utility::DateEntity::setYear (const size_t & year) [inline]

setYear Sets the year value

Parameters

year The year to set

5.5.3.16 size_t cbtek::common::utility::DateEntity::toDateInteger() const [inline]

toDateInteger Converts date object into unique integer

Returns

Return date as integer YYYYMMDD

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

common/utility/inc/DateTimeUtils.hpp

5.6 cbtek::common::utility::DateTimeUtils Class Reference

Static Public Member Functions

- static std::string getDisplayTimeStamp (const DateEntity &dateEntity, const TimeEntity &timeEntity)
 getDisplayTimeStamp
- static std::string getDisplayTimeStamp ()

getDisplayTimeStamp

 static std::uint64_t getTimeStampInteger (const DateEntity &dateEntity=DateUtils::getCurrentDate(), const TimeEntity &timeEntity=TimeUtils::getCurrentTime())

getTimeStampInteger

static std::string getTimeStamp ()

getTimeStamp

static std::string getTimeStamp (const DateEntity &dateEntity, const TimeEntity &timeEntity)
 getTimeStamp

5.6.1 Member Function Documentation

5.6.1.1 static std::string cbtek::common::utility::DateTimeUtils::getDisplayTimeStamp (const DateEntity & dateEntity, const TimeEntity & timeEntity) [inline], [static]

getDisplayTimeStamp

Paramet	ers
dateE	Entity
timeE	Entity
Returns	
netuilis	
5.6.1.2	static std::string cbtek::common::utility::DateTimeUtils::getDisplayTimeStamp () [inline], [static]
getDisp	olayTimeStamp
Returns	
F C 4 O	static at describe a state of the second sec
5.0.1.3	<pre>static std::string cbtek::common::utility::DateTimeUtils::getTimeStamp() [inline],[static]</pre>
getTime	eStamp
Returns	
5.6.1.4	static std::string cbtek::common::utility::DateTimeUtils::getTimeStamp (const DateEntity & dateEntity, const
	<pre>TimeEntity & timeEntity) [inline], [static]</pre>
getTime	eStamp
Paramet	
dateE	
timeE	ntity
.	
Returns	
5.6.1.5	static std::uint64_t cbtek::common::utility::DateTimeUtils::getTimeStampInteger (const DateEntity & dateEntity = DateUtils::getCurrentDate (), const TimeEntity & timeEntity = TimeUtils::getCurrentTime ())
	[inline], [static]
getTime	eStampInteger

Parameters

dateEntity timeEntity

Returns

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

common/utility/inc/DateTimeUtils.hpp

5.7 cbtek::common::utility::DateTimeUtils_EmbeddedUtils Class Reference

This embedded class contains utilities in support of DateTimeUtils Although the DRY is violated, this class can stay dependency free and be used freely without needing external support.

```
#include <DateTimeUtils.hpp>
```

Static Public Member Functions

• static void to UpperInPlace (std::string &str)

Converts string to upper-case.

static std::string toUpper (const std::string &str)

Converts string to upper-case.

static std::string replace (const std::string &inputString, const std::string &oldString, const std::string &new
 String, bool isCaseSensitive=c_DEFAULT_CASE_SENSITIVE)

Perfroms string replace (in-place)

static bool contains (const std::string &srcStr, const std::string &subStr, bool caseSensitive=c_DEFAULT_←
 CASE SENSITIVE)

 $contains\ Checks\ to\ see\ if\ subStr\ exists\ within\ srcStr$

template<typename T >

static T toNumber (const std::string &value)

toNumber Converts string value to numeric type

5.7.1 Detailed Description

This embedded class contains utilities in support of DateTimeUtils Although the DRY is violated, this class can stay dependency free and be used freely without needing external support.

5.7.2 Member Function Documentation

5.7.2.1 static bool cbtek::common::utility::DateTimeUtils_EmbeddedUtils::contains (const std::string & srcStr, const std::string & subStr, bool caseSensitive = c_DEFAULT_CASE_SENSITIVE) [inline], [static]

contains Checks to see if subStr exists within srcStr

Parameters

srcStr	The original source string			
subStr	The substring to look for			
caseSensitive				

Returns

Return true if subStr exists within srcStr, false otherwise

5.7.2.2 static std::string cbtek::common::utility::DateTimeUtils_EmbeddedUtils::replace (const std::string & inputString, const std::string & newString, bool isCaseSensitive = c_DEFAULT_CASE_SENSITIVE) [inline], [static]

Perfroms string replace (in-place)

Parameters

inputString	The string that contains oldString to replace		
oldString	The old string to replace		
newString	The new string to insert		
isCaseSensitive	Should oldString be caseSensitive within inputString?		

Returns

inputString with the replaced oldString. If oldString is not found within inputString then inputString is returned unmodified.

5.7.2.3 template < typename T > static T cbtek::common::utility::DateTimeUtils_EmbeddedUtils::toNumber (const std::string & value) [inline], [static]

toNumber Converts string value to numeric type

Parameters

value	The string to convert

Returns

Returns numeric type of conversion

5.7.2.4 static std::string cbtek::common::utility::DateTimeUtils_EmbeddedUtils::toUpper (const std::string & str) [inline], [static]

Converts string to upper-case.

Parameters

The str	ring to convert
---------	-----------------

Returns

The converted string

5.7.2.5 static void cbtek::common::utility::DateTimeUtils_EmbeddedUtils::toUpperInPlace (std::string & str) [inline], [static]

Converts string to upper-case.

Parameters

Reference	to the string to convert
-----------	--------------------------

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

• common/utility/inc/DateTimeUtils.hpp

5.8 cbtek::common::utility::DateUtils Class Reference

The DateUtils class.

```
#include <DateTimeUtils.hpp>
```

Static Public Member Functions

- static std::string toShortDateString (const DateEntity &date, const std::string &format="mm-dd-yyyy")
 toShortDateString
- static std::string toLongDateString (const DateEntity &date)

toLongDateString

• static DateEntity getCurrentDate ()

getCurrentDate

static std::string toCurrentLongDateString ()

toCurrentLongDateString

• static std::string toCurrentShortDateString ()

toCurrentShortDateString

5.8.1 Detailed Description

The DateUtils class.

5.8.2 Member Function Documentation
5.8.2.1 static DateEntity cbtek::common::utility::DateUtils::getCurrentDate() [inline],[static]
getCurrentDate
Returns
5.8.2.2 static std::string cbtek::common::utility::DateUtils::toCurrentLongDateString() [inline], [static]
toCurrentLongDateString
Returns
5.8.2.3 static std::string cbtek::common::utility::DateUtils::toCurrentShortDateString() [inline],[static]
toCurrentShortDateString
Returns
5.8.2.4 static std::string cbtek::common::utility::DateUtils::toLongDateString (const DateEntity & date) [inline], [static]
toLongDateString
Parameters
date
Returns
5.8.2.5 static std::string cbtek::common::utility::DateUtils::toShortDateString (const DateEntity & date, const std::string & format = "mm-dd-yyyy") [inline], [static]
toShortDateString

Parameters

date	
format	

Returns

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

• common/utility/inc/DateTimeUtils.hpp

5.9 cbtek::common::utility::Font Class Reference

Public Member Functions

• Font ()

Font.

• Font (std::string fontFamily, size_t pointSize=10, bool isBold=false, bool isItalic=false, bool is

Underlined=false)

Font.

bool operator== (const Font &font)

operator ==

void setFontFamily (const std::string &fontFamily)

setFontFamily

• void setPointSize (const size_t &pointSize)

setPointSize

void setBold (const bool &enabled)

setBold

• void setItalic (const bool &enabled)

setItalic

void setUnderlined (const bool &enabled)

setUnderlined

• bool isBold () const

isBold

• bool isltalic () const

isItalic

• bool is Underlined () const

isUnderlined

• std::string getFontFamily () const

getFontFamily

• size_t getPointSize () const

getPointSize

• std::string toString () const

toString

• bool hasDefaultChanged () const

hasDefaultChanged

void setChanged (bool flag)

setChanged

5	.9.1	Constructor	ጴ	Destructor	Documentation

5.9.1.1 cbtek::common::utility::Font::Font (std::string fontFamily, size_t pointSize = 10, bool isBold = false, bool isItalic = false, bool isUnderlined = false)

_			
-	\cap	n	ıt.

Parameters

fontFamily	
pointSize	
isBold	
isItalic	
isUnderlined	

5	9.2) N	lem	her	Func	tion	Docum	entation
v.	0.6	. 17		UCI	ı uiic	LIVII	Docum	CIILALIOII

5.9.2.1	std::string	cbtek::common::utility::Font::getFontFamily ()	const
J.J.Z. I	stusti iliy	cotekcommonutilityi ontgeti onti anniy (,	COIIS

getFontFamily

Returns

5.9.2.2 size_t cbtek::common::utility::Font::getPointSize () const

getPointSize

Returns

5.9.2.3 bool cbtek::common::utility::Font::hasDefaultChanged () const

hasDefaultChanged

Returns

5.9.2.4 bool cbtek::common::utility::Font::isBold () const

isBold

Returns

5.9.2.5 bool cbtek::common::utility::Font::isltalic () const
isItalic
Returns
5.9.2.6 bool cbtek::common::utility::Font::isUnderlined () const
isUnderlined
Returns
5.9.2.7 bool cbtek::common::utility::Font::operator== (const Font & font)
operator ==
Parameters
font
Returns
5.9.2.8 void cbtek::common::utility::Font::setBold (const bool & enabled)
setBold
Parameters
enabled
5.9.2.9 void cbtek::common::utility::Font::setChanged (bool <i>flag</i>)
setChanged
Parameters
flag

5.9.2.10 void cbtek::common::utility::Font::setFontFamily (const std::string & fontFamily)
setFontFamily
Parameters
fontFamily
5.9.2.11 void cbtek::common::utility::Font::setItalic (const bool & enabled)
setItalic
Parameters
enabled
5.9.2.12 void cbtek::common::utility::Font::setPointSize (const size_t & pointSize)
setPointSize
Parameters
pointSize
5.9.2.13 void cbtek::common::utility::Font::setUnderlined (const bool & enabled)
setUnderlined
Parameters
enabled
5.9.2.14 std::string cbtek::common::utility::Font::toString () const
toString
Returns
netunis
The documentation for this class was generated from the following files:

common/utility/inc/FontUtils.hcommon/utility/src/FontUtils.cpp

5.10 cbtek::common::utility::FontFactory Class Reference

Static Public Member Functions

- static Font create (const fontStyle::FontStyle &style)
 create
- static Font create (const std::string &fontString)
 create

5.10.1 Member Function Documentation

5.10.1.1	Font cbtek::common::utility::FontFactory::create (const fontStyle::FontStyle & style)	[static]
create		
Paramete	ers	
style		

Returns

5.10.1.2 Font cbtek::common::utility::FontFactory::create (const std::string & fontString) [static]

create

Parameters

fontString

Returns

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

- · common/utility/inc/FontUtils.h
- common/utility/src/FontUtils.cpp

5.11 cbtek::common::utility::Random Class Reference

Public Member Functions

Random (long seed=0xABCDEF)

Random.
 void reseed (long seed)
reseed
double random ()
random
• int next (int min, int max)
next
• int next (int max)
next
5.11.1 Constructor & Destructor Documentation
on the contractor a postatotor postationation
5.11.1.1 cbtek::common::utility::Random (long seed = 0xABCDEF)
Random.
naliuoiii.
Parameters
seed
5.11.2 Member Function Documentation
5.11.2.1 int cbtek::common::utility::Random::next (int <i>min</i> , int <i>max</i>)
orner memorial minimum minimum memori
next
Parameters
min
max
Returns
Tiowing
5.11.2.2 int cbtek::common::utility::Random::next (int <i>max</i>)
nevt
next
Parameters
max

```
5.11.2.3 double cbtek::common::utility::Random::random ( )
random
Returns

5.11.2.4 void cbtek::common::utility::Random::reseed ( long seed )
reseed
Parameters
seed
```

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

- · common/utility/inc/Random.h
- · common/utility/src/Random.cpp

5.12 cbtek::common::utility::TimeEntity Class Reference

The TimeEntity class represents a single time object for use in DateTimeUtils and TimeUtils.

```
#include <DateTimeUtils.hpp>
```

Public Member Functions

• TimeEntity ()

TimeEntity (Constructor) Default.

• TimeEntity (const size_t &time)

TimeEntity (Constructor) Create time object with integer containing time components in the form of HHMMSS.

• TimeEntity (size_t hour, size_t minute, size_t second, size_t millisecond=0)

TimeEntity (Constructor) Creates TimeEntity object with hour, minute, second and optional millisecond components.

bool operator> (const TimeEntity &time) const

operator> Checks if the time object is greater than the (*this) object

bool operator< (const TimeEntity &time) const

operator< Checks if the time object is less than the (*this) object

bool operator<= (const TimeEntity &time) const

operator<= Checks if the time object is less than or equal to (*this) object

bool operator>= (const TimeEntity &time) const

operator> = Checks if the time object is greater than or equal to (*this) object

• bool operator== (const TimeEntity &time) const

operator== Checks if the time object is equal to (*this) object

void setHour (const size_t &hour)

setHour Sets the hour value

void setMinute (const size_t &minute)

setMinute Sets the minute value

void setSecond (const size t &second)

setSecond Sets the second value

void setMillisecond (const size_t &millisecond)

setMillisecond Sets the millisecond value

• size_t getHour () const

getHour Get the hour value

• size t getMinute () const

getMinute Get the minute value

size_t getSecond () const

getSecond Get the second value

• size_t getMillisecond () const

getMillisecond Get the millisecond value

size_t toTimeInteger () const

toTimeInteger Returns integer of (*this) time value in form of HHMMSS integer

• size_t getAsMinutes () const

getAsMinutes Get total number of minutes

size_t getAsSeconds () const

getAsSeconds Get total number of seconds

• size_t getAsMilliseconds () const

getAsMilliseconds Get total number of milliseconds

• size_t getAsMicroseconds () const

getAsMicroseconds Get total number of microseconds

5.12.1 Detailed Description

The TimeEntity class represents a single time object for use in DateTimeUtils and TimeUtils.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 cbtek::common::utility::TimeEntity::TimeEntity (const size_t & time) [inline]

TimeEntity (Constructor) Create time object with integer containing time components in the form of HHMMSS.

Parameters

time Integer containing HHMMSS components

5.12.2.2 cbtek::common::utility::TimeEntity(size_t hour, size_t minute, size_t second, size_t millisecond = 0)
[inline]

TimeEntity (Constructor) Creates TimeEntity object with hour, minute, second and optional millisecond components.

Parameters

hour	The hour to set
minute	The minute to set
second	The second to set
millisecond	The millisecond to set

5.12.3 Member Function Documentation

5.12.3.1 size_t cbtek::common::utility::TimeEntity::getAsMicroseconds() const [inline]

getAsMicroseconds Get total number of microseconds

Returns

Return integer of total number of microseconds

 $\textbf{5.12.3.2} \quad \textbf{size_t cbtek::} \textbf{common::} \textbf{utility::} \textbf{TimeEntity::} \textbf{getAsMilliseconds () const} \quad \texttt{[inline]}$

getAsMilliseconds Get total number of milliseconds

Returns

Return integer of total number of milliseconds

5.12.3.3 size_t cbtek::common::utility::TimeEntity::getAsMinutes() const [inline]

getAsMinutes Get total number of minutes

Returns

Return integer of total number of minutes

5.12.3.4 size_t cbtek::common::utility::TimeEntity::getAsSeconds() const [inline]

getAsSeconds Get total number of seconds

Returns

Return integer of total number of seconds

```
5.12.3.5 size_t cbtek::common::utility::TimeEntity::getHour() const [inline]
getHour Get the hour value
Returns
      Value of m hour
5.12.3.6 size_t cbtek::common::utility::TimeEntity::getMillisecond() const [inline]
getMillisecond Get the millisecond value
Returns
      Value of m millisecond
5.12.3.7 size_t cbtek::common::utility::TimeEntity::getMinute( ) const [inline]
getMinute Get the minute value
Returns
      Value of m minute
5.12.3.8 size_t cbtek::common::utility::TimeEntity::getSecond() const [inline]
getSecond Get the second value
Returns
      Value of m_second
5.12.3.9 bool cbtek::common::utility::TimeEntity::operator< ( const TimeEntity & time ) const [inline]
operator< Checks if the time object is less than the (*this) object
Parameters
         The time object to compare against
 time
```

Returns

True if (*this) is less than time, false otherwise

5.12.3.10 bool cbtek::common::utility::TimeEntity::operator<= (const TimeEntity & time) const [inline]

operator <= Checks if the time object is less than or equal to (*this) object

Parameters

time	The time object to compare against
------	------------------------------------

Returns

True if (*this) is less than or equal to time, false otherwise

5.12.3.11 bool cbtek::common::utility::TimeEntity::operator== (const TimeEntity & time) const [inline]

operator == Checks if the time object is equal to (*this) object

Parameters

time	The time object to compare against
------	------------------------------------

Returns

True if (*this) is equal to time, false otherwise

5.12.3.12 bool cbtek::common::utility::TimeEntity::operator> (const TimeEntity & time) const [inline]

operator> Checks if the time object is greater than the (*this) object

Parameters

time	,	The time object to compare against
------	---	------------------------------------

Returns

True if (*this) is greater than time, false otherwise

5.12.3.13 bool cbtek::common::utility::TimeEntity::operator>= (const TimeEntity & time) const [inline]

operator>= Checks if the time object is greater than or equal to (*this) object

Parameters

time	The time object to compare against
------	------------------------------------

Returns

True if (*this) is greater than or equal to time, false otherwise

5.12.3.14 void cbtek::common::utility::TimeEntity::setHour(const size_t & hour) [inline]

setHour Sets the hour value

Parameters

hour The hour to set

5.12.3.15 void cbtek::common::utility::TimeEntity::setMillisecond (const size_t & millisecond) [inline]

setMillisecond Sets the millisecond value

Parameters

millisecond The millisecond to set

5.12.3.16 void cbtek::common::utility::TimeEntity::setMinute (const size_t & minute) [inline]

setMinute Sets the minute value

Parameters

minute The minute to set

5.12.3.17 void cbtek::common::utility::TimeEntity::setSecond (const size_t & second) [inline]

setSecond Sets the second value

Parameters

second The second to set

5.12.3.18 size_t cbtek::common::utility::TimeEntity::toTimeInteger() const [inline]

toTimeInteger Returns integer of (*this) time value in form of HHMMSS integer

Returns

Return integer of current time components

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

• common/utility/inc/DateTimeUtils.hpp

5.13 cbtek::common::utility::TimeUtils Class Reference

The TimeUtils class contains useful functions for dealing the TimeEntity class.

```
#include <DateTimeUtils.hpp>
```

Static Public Member Functions

```
    template < typename T >
        static std::string toString (T value)
        toString
```

• static uint64_t getSecondsNow ()

getSecondsNow

static double getNanosecondsNow ()

getNanosecondsNow

static double getMicrosecondsNow ()

getMicrosecondsNow

• static std::uint64_t getCurrentMilliseconds ()

getCurrentMilliseconds

• static double getMillisecondsNow ()

getMillisecondsNow

static std::string toTimeString (const TimeEntity &time)

toTimeString

static std::string to12HourTimeString (const TimeEntity &time)

to12HourTimeString

• static TimeEntity getCurrentTime ()

getCurrentTime

• static TimeEntity getTimeFromSeconds (const uint64_t &secs)

getTimeFromSeconds

• static TimeEntity getTimeFromMilliseconds (const uint64_t &ms)

getTimeFromMilliseconds

static std::string toCurrentTimeString ()

toCurrentTimeString

static std::string toCurrent12HourTimeString ()

toCurrent12HourTimeString

5.13.1 Detailed Description

The $\overline{\text{TimeUtils}}$ class contains useful functions for dealing the $\overline{\text{TimeEntity}}$ class.

5.13.2 Member Function Documentation

```
5.13.2.1 static std::uint64 t cbtek::common::utility::TimeUtils::getCurrentMilliseconds() [inline], [static]
```

getCurrentMilliseconds

Returns

```
5.13.2.2 static TimeEntity cbtek::common::utility::TimeUtils::getCurrentTime( ) [inline], [static]
getCurrentTime
Returns
5.13.2.3 static double cbtek::common::utility::TimeUtils::getMicrosecondsNow() [inline], [static]
getMicrosecondsNow
Returns
5.13.2.4 static double cbtek::common::utility::TimeUtils::getMillisecondsNow( ) [inline], [static]
getMillisecondsNow
Returns
5.13.2.5 static double cbtek::common::utility::TimeUtils::getNanosecondsNow() [inline], [static]
getNanosecondsNow
Returns
5.13.2.6 static uint64_t cbtek::common::utility::TimeUtils::getSecondsNow() [inline], [static]
getSecondsNow
Returns
5.13.2.7 static TimeEntity cbtek::common::utility::TimeUtils::getTimeFromMilliseconds ( const uint64_t & ms )
         [inline],[static]
getTimeFromMilliseconds
```

Parameters
ms
Returns
TICLUITS
5.13.2.8 static TimeEntity cbtek::common::utility::TimeUtils::getTimeFromSeconds (const uint64_t & secs) [inline], [static]
getTimeFromSeconds
Parameters
secs
Returns
neturns
5.13.2.9 static std::string cbtek::common::utility::TimeUtils::to12HourTimeString (const TimeEntity & time) [inline], [static]
[556525]
to12HourTimeString
Parameters
time
Returns
5.13.2.10 static std::string cbtek::common::utility::TimeUtils::toCurrent12HourTimeString() [inline], [static]
toCurrent12HourTimeString
Returns
5.13.2.11 static std::string cbtek::common::utility::TimeUtils::toCurrentTimeString() [inline], [static]
toCurrentTimeString
Returns

5.13.2.12 template <typename t=""> static std::string cbtek::common::utility::TimeUtils::toString (T value) [inline], [static]</typename>
toString
Parameters
value
Returns
5.13.2.13 static std::string cbtek::common::utility::TimeUtils::toTimeString (const TimeEntity & time) [inline], [static]
toTimeString
Parameters time
Returns
The documentation for this class was generated from the following file:
common/utility/inc/DateTimeUtils.hpp
5.14 cbtek::common::utility::XMLDataElement Class Reference
Collaboration diagram for cbtek::common::utility::XMLDataElement:
cbtek::common::utility ::XMI DataFlement

Public Member Functions

XMLDataElement ()

XMLDataElement.

XMLDataElement (const XMLDataElement &element)

XMLDataElement.

∼XMLDataElement ()

XMLDataElement.

• const AttributeVector & getAttributes () const

getAttributes

· const ChildElementVector & getChildren () const

aetChildren

· const std::string & getElementName () const

getElementName

std::string getElementData (bool trimmed=false) const

getElementData

std::int64_t getElementDataAsInteger () const

getElementDataAsInteger

• double getElementDataAsFloat () const

getElementDataAsFloat

• std::string getAttributeValue (const std::string &attributeName, bool caseSensitive=false) const

getAttributeValue

• std::string getAttributeName (size_t index) const

getAttributeName

std::string getAttributeValue (size_t index) const

getAttributeValue

XMLDataElement * getParent () const

getParent

XMLDataElement * getNextSibling () const

getNextSibling

XMLDataElement * getChildAt (size t index) const

getChildAt

• XMLDataElement * getChild (const std::string &name) const

getChila

std::string getChildElementData (const std::string &name) const

getChildElementData

• bool attributeExists (const std::string &attributeName, bool caseSensitive=false) const

attributeExists

· bool hasChildren () const

hasChildren

• bool childExists (size t index)

childExists

• bool childExists (const std::string &name, bool caseSensitive=false)

childExists

• size t getNumChildren () const

getNumChildren

size_t getNumAttributes () const

getNumAttributes

• size t getLocalIndex () const

getLocalIndex

size_t getChildIndex (const XMLDataElement *child) const

getChildIndex

void setElementData (const std::string &data)

setElementData

void setElementName (const std::string &name)

setElementName

void addAttribute (const std::string &attributeName, const std::string &attributeValue)

addAttribute

• void addChild (XMLDataElement *child)

addChild

void setParent (XMLDataElement *parent)

setParent

void setLocalIndex (size_t index)

setLocalIndex

• XMLDataElement * find (const std::string &name, const bool &caseSensitive=false)

find

const XMLDataElement * find (const std::string &name, const bool &caseSensitive=false) const

• void addAttribute (const std::string &attributeName, const float &attributeValue)

addAttribute

void addAttribute (const std::string &attributeName, const double &attributeValue)

addAttribute

• template<typename T >

void addAttribute (const std::string &attributeName, const T &attributeValue)

addAttribute

template<typename Number >

Number getAttributeValueAsType (const std::string &attributeName) const

getAttributeValueAsType

• template<typename Number >

Number getChildElementDataAsType (const std::string &name) const

getChildElementDataAsType

• bool getAttributeValueAsBool (const std::string &attributeName) const

getAttributeValueAsBool

Protected Member Functions

• XMLDataElement * findInSubTree (const std::string &name, const XMLDataElement *element, const bool &caseSensitive)

findInSubTree

• const XMLDataElement * findInSubTree (const std::string &name, const XMLDataElement *element, const bool &caseSensitive) const

findInSubTree

Protected Attributes

- size_t m_LocalIndex
- · std::string m Name
- std::string m Data
- std::string m_Temp
- AttributeVector m Attributes
- ChildElementVector m_ChildElementVector
- XMLDataElement * m_Parent

5.14.1	Constructor	& Doctructor	Documentation
D. 14. I	CONSTRUCTOR	w Desiriucion	Documentation

5.14.1.1 cbtek::common::utility::XMLDataElement::XMLDataElement (const XMLDataElement & element)

XMLDataElement.

Parameters

element

5.14.2 Member Function Documentation

5.14.2.1 void cbtek::common::utility::XMLDataElement::addAttribute (const std::string & attributeName, const std::string & attributeValue)

addAttribute

Parameters

attributeName	
attributeValue	

5.14.2.2 void cbtek::common::utility::XMLDataElement::addAttribute (const std::string & attributeName, const float & attributeValue)

addAttribute

Parameters

attributeName	
attributeValue	

5.14.2.3 void cbtek::common::utility::XMLDataElement::addAttribute (const std::string & attributeName, const double & attributeValue)

addAttribute

Parameters

attributeName	
attributeValue	

5.14.2.4 template <typename t=""> void cbtek::common::utility::XMLDataElement::addAttribute (const std::string & attributeName, const T & attributeValue) [inline]</typename>
addAttribute
Parameters
attributeName
attribute Value
5.14.2.5 void cbtek::common::utility::XMLDataElement::addChild (XMLDataElement * child)
addChild
Parameters
child
5.14.2.6 bool cbtek::common::utility::XMLDataElement::attributeExists (const std::string & attributeName, bool caseSensitive = false) const
attributeExists
Parameters
attributeName
caseSensitive
Returns
5.14.2.7 bool cbtek::common::utility::XMLDataElement::childExists (size_t index)
3.14.2.7 Bool chiekcommondumyAmilbataliementchmulxisis (Size_t muex)
childExists
Parameters
index
Returns

5.14.2.8 bool cbtek::common::utility::XMLDataElement::childExists (const std::string & name, bool caseSensitive = false) childExists

Darameters			
			rc

name	
caseSensitive	

Returns

5.14.2.9 XMLDataElement * cbtek::common::utility::XMLDataElement::find (const std::string & name, const bool & caseSensitive = false)

find

Parameters

name	
caseSensitive	

Returns

5.14.2.10 const XMLDataElement * cbtek::common::utility::XMLDataElement::find (const std::string & name, const bool & caseSensitive = false) const

find

Parameters

name	
caseSensitive	

Returns

5.14.2.11 XMLDataElement * cbtek::common::utility::XMLDataElement::findInSubTree (const std::string & name, const XMLDataElement * element, const bool & caseSensitive) [protected]

findInSubTree

Parameters

name	
element	
caseSensitive	

Returns
5.14.2.12 const XMLDataElement * cbtek::common::utility::XMLDataElement::findInSubTree (const std::string & name, const XMLDataElement * element, const bool & caseSensitive) const
findInSubTree
Parameters
name
element caseSensitive
Returns
5.14.2.13 std::string cbtek::common::utility::XMLDataElement::getAttributeName (size_t index) const
getAttributeName
Parameters
index
Returns
5.14.2.14 const AttributeVector & cbtek::common::utility::XMLDataElement::getAttributes () const
getAttributes
Returns
5.14.2.15 std::string cbtek::common::utility::XMLDataElement::getAttributeValue (const std::string & attributeName, bool caseSensitive = false) const
getAttributeValue

Parameters
attributeName
caseSensitive
Returns
5.14.2.16 std::string cbtek::common::utility::XMLDataElement::getAttributeValue(size_t index)const
getAttributeValue
Parameters
index
Returns
5.14.2.17 bool cbtek::common::utility::XMLDataElement::getAttributeValueAsBool (const std::string & attributeName) const getAttributeValueAsBool
Parameters
attributeName
Returns
5.14.2.18 template < typename Number > Number cbtek::common::utility::XMLDataElement::getAttributeValueAsType (const std::string & attributeName) const [inline]
getAttributeValueAsType
Parameters
attributeName
Returns

5.14.2.19 XMLDataElement * cbtek::common::utility::XMLDataElement::getChild (const std::string & name) const
getChild
Parameters name
Returns
5.14.2.20 XMLDataElement * cbtek::common::utility::XMLDataElement::getChildAt (size_t index) const
getChildAt
Parameters
index
Returns
5.14.2.21 std::string cbtek::common::utility::XMLDataElement::getChildElementData (const std::string & name) const
getChildElementData
Parameters name
Returns
5.14.2.22 template < typename Number > Number cbtek::common::utility::XMLDataElement::getChildElementDataAsType (
getChildElementDataAsType
Parameters name

Returns
5.14.2.23 size_t cbtek::common::utility::XMLDataElement::getChildIndex (const XMLDataElement * child) const
getChildIndex
Parameters
child
Returns
5.14.2.24 const ChildElementVector & cbtek::common::utility::XMLDataElement::getChildren () const
,
getChildren
Returns
5.14.2.25 std::string cbtek::common::utility::XMLDataElement::getElementData (bool trimmed = false) const
getElementData
Parameters
trimmed
Returns
5.14.2.26 double cbtek::common::utility::XMLDataElement::getElementDataAsFloat () const
getElementDataAsFloat
Returns

5.14.2.27	int64_t cbtek::common::utility::XMLDataElement::getElementDataAsInteger () const	
getEleme	ntDataAsInteger	
Returns		
5.14.2.28	const std::string & cbtek::common::utility::XMLDataElement::getElementName () const	
getEleme	ntName	
Returns		
5.14.2.29	size_t cbtek::common::utility::XMLDataElement::getLocalIndex () const	
getLocall	ndex	
Returns		
5.14.2.30	XMLDataElement * cbtek::common::utility::XMLDataElement::getNextSibling () const	
getNextS	ibling	
Returns		
5.14.2.31	size_t cbtek::common::utility::XMLDataElement::getNumAttributes () const	
getNumAttributes		
Returns		
5.14.2.32	size_t cbtek::common::utility::XMLDataElement::getNumChildren () const	
getNumC	hildren	
Returns		

5.14.2.33	XMLDataElement * cbtek::common::utility::XMLDataElement::getParent () const
getParent	
Returns	
5.14.2.34	bool cbtek::common::utility::XMLDataElement::hasChildren () const
hasChildr	en
Returns	
5.14.2.35	void cbtek::common::utility::XMLDataElement::setElementData (const std::string & data)
setEleme	ntData
Parameters data	
Gaia	
5.14.2.36	void cbtek::common::utility::XMLDataElement::setElementName(const std::string & name)
setEleme	ntName
Parameters name	
5.14.2.37	void cbtek::common::utility::XMLDataElement::setLocalIndex(size_t <i>index</i>)
setLocalIr	ndex
Parameters index	
"IGCX	
5.14.2.38	void cbtek::common::utility::XMLDataElement::setParent(XMLDataElement * parent)
setParent	

Parameters

```
parent
```

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

- · common/utility/inc/XMLUtils.h
- common/utility/src/XMLUtils.cpp

5.15 cbtek::common::utility::XMLReader Class Reference

Public Member Functions

```
    bool load (const std::string &filename)
        load
        bool loadFromString (const std::string &data)
```

loadFromString

XMLDataElement * getElement (const std::string &tagName, const bool &caseSensitive=false)
 getElement

• XMLDataElement * find (const std::string &name, const bool &caseSensitive=false)

size_t getNumElements (const std::string &tagName, const bool &caseSensitive=false)
 getNumElements

• bool exists (const std::string &tagName, const bool &caseSensitive=false)

exists

• std::string toString () const

toString

XMLDataElement * getRoot ()

getRoot

const XMLDataElement * getRoot () const

getRoot

· bool isValid () const

isValid

• size_t getDepth () const

getDepth

• size_t getNumLines () const

getNumLines

· void reset ()

reset

• void clear ()

clear

XMLDataElement * getFirstElement ()

getFirstElement

5.15.1 Member Function Documentation

5.15.1.1 bool cbtek::common::utility::XMLReader::exists (const std::string & tagName, const bool & caseSensitive = false)

exists

	Class Documentation
arameters	
tagName	
caseSensitive	
eturns	
15.1.2 XMLDataElement * cbtek::common::utility::XMLReader::find (const std::string & caseSensitive = false)	name, const bool &
nd	
arameters	
name	
caseSensitive	
eturns	
15.1.3 size_t cbtek::common::utility::XMLReader::getDepth()const	
etDepth	
eturns	
15.1.4 XMLDataElement * cbtek::common::utility::XMLReader::getElement (const std::s caseSensitive = false)	tring & <i>tagName,</i> const bool &
etElement	
arameters	
tagName	
caseSensitive	

Returns

5.15.1.5	XMLDataElement * cbtek::common::utility::XMLReader::getFirstElement ()
getFirstE	Element
Returns	
5.15.1.6	size_t cbtek::common::utility::XMLReader::getNumElements (const std::string & tagName, const bool & caseSensitive = false)
getNuml	Elements
Paramete tagNar	те
caseSe	ensitive
Returns	
5.15.1.7	size_t cbtek::common::utility::XMLReader::getNumLines () const
getNuml	Lines
Returns	
	XMLDataElement * cbtek::common::utility::XMLReader::getRoot ()
getRoot	
Returns	
5.15.1.9	const XMLDataElement * cbtek::common::utility::XMLReader::getRoot () const
getRoot	
Returns	

5.15.1.10 bool cbtek::common::utility::XMLReader::isValid () const
isValid
Returns
5.15.1.11 bool cbtek::common::utility::XMLReader::load (const std::string & filename)
load
Parameters
filename
Returns
5.15.1.12 bool cbtek::common::utility::XMLReader::loadFromString(const std::string & data)
3.13.1.12 Bool cotexcommondumtyAmeneaderloadi fombumg (const stdstring & data)
loadFromString
Parameters data
uata
Returns
5.15.1.13 std::string cbtek::common::utility::XMLReader::toString () const
toString
Returns
The documentation for this class was generated from the following files:

common/utility/inc/XMLUtils.hcommon/utility/src/XMLUtils.cpp

5.16 cbtek::common::utility::XMLStreamWriter Class Reference

Public Member Functions

XMLStreamWriter (std::ostream &out)

Constructor for XMLStreamWriter.

• void writeStartDocument (const std::string &version="1.0", bool flag=true)

writeStartDocument

void writeStartElementNoAttributes (const std::string &tag)

writeStartElementNoAttributes

void writeStartElement (const std::string &tag)

writeStartElement

void writeEndElement ()

writeEndElement

void writeEndElement (const std::string &tag)

writeEndElement

void writeTextElement (const std::string &tag, const std::string &text)

writeTextElement

template<typename ValueType >

void writeLastAttribute (const std::string &attributeName, const ValueType &attributeValue)

writeLastAttribute

void writeText (const std::string &text)

writeText

template<typename ValueType >

void writeLastAttributeAndCloseTag (const std::string &attributeName, const ValueType &attributeValue)

writeLastAttribute

• template<typename ValueType >

void writeAttribute (const std::string &attributeName, const ValueType &attributeValue)

writeAttribute

∼XMLStreamWriter ()

Destructor.

5.16.1 Member Function Documentation

5.16.1.1 template < typename ValueType > void cbtek::common::utility::XMLStreamWriter::writeAttribute (const std::string & attributeName, const ValueType & attributeValue) [inline]

writeAttribute

Parameters

attributeName attributeValue

5.16.1.2 void cbtek::common::utility::XMLStreamWriter::writeEndElement (const std::string & tag)

writeEndElement

64 **Class Documentation Parameters** tag $5.16.1.3 \quad template < typename \ Value Type > void \ cbtek:: common:: utility:: XML Stream Writer:: write Last Attribute (\ constant and the constant and th$ std::string & attributeName, const ValueType & attributeValue) [inline] writeLastAttribute **Parameters** attributeName attributeValue $5.16.1.4 \quad template < typename \ Value Type > void \ cbtek:: common:: utility:: XML Stream Writer:: write Last Attribute And Close Tag \ ($ const std::string & attributeName, const ValueType & attributeValue) [inline] writeLastAttribute **Parameters** attributeName attribute Value 5.16.1.5 void cbtek::common::utility::XMLStreamWriter::writeStartDocument (const std::string & version = "1.0", bool flag =true) writeStartDocument **Parameters**

Parameters

writeStartElement

version flag

tag

5.16.1.7 void cbtek::common::utility::XMLStreamWriter::writeStartElementNoAttributes (const std::string & tag) writeStartElementNoAttributes **Parameters** tag 5.16.1.8 void cbtek::common::utility::XMLStreamWriter::writeText (const std::string & text) writeText **Parameters** text 5.16.1.9 void cbtek::common::utility::XMLStreamWriter::writeTextElement (const std::string & tag, const std::string & text) writeTextElement **Parameters** tag text The documentation for this class was generated from the following files: · common/utility/inc/XMLUtils.h · common/utility/src/XMLUtils.cpp 5.17 cbtek::common::utility::XMLUtils Class Reference

Static Public Member Functions

- static std::string getEncodedString (const std::string &rawString)
 getEncodedString
- static std::string getDecodedString (const std::string &xmlString)
 getDecodedString

5.17.1 Member Function Documentation

5.17.1.1 std::string cbtek::common::utility::XMLUtils::getDecodedString (const std::string & xmlString) [static]

getDecodedString

Parameters
xmlString
Returns
5.17.1.2 std::string cbtek::common::utility::XMLUtils::getEncodedString (const std::string & rawString) [static]
getEncodedString
Parameters
rawString
Returns
The documentation for this class was generated from the following files:

- common/utility/inc/XMLUtils.h
- common/utility/src/XMLUtils.cpp

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