Scars\_Healing

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# **Chapter 1**

# Namespace Index

## 1.1 Namespace List

Here is	a list of all	namespaces	with brief	descriptions

gtest_lite	
Gtest_lite: a keretrendszer függvényinek és objektumainak névtere	7

2 Namespace Index

# Chapter 2

# **Hierarchical Index**

## 2.1 Class Hierarchy

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

_ls_Types< F, T >	. 13
$\label{eq:attributeCheck} \textbf{AttributeCheck} < \textbf{C} > \dots $	. 15
Entity	. 21
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GenericArray < Item >	. 29
InfoPreset	. 33
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Storage	
String	. 64
atest lite::Test	68

4 Hierarchical Index

# **Chapter 3**

# **Class Index**

## 3.1 Class List

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

_IS_Iype	es< F, I >	
	Segédsablon típuskonverzió futás közbeni ellenőrzésere	13
<b>Attribute</b>	eCheck< C >	
	Predicatum, which determines if an item in an array has a specific attribute	15
Enemy		
	Enemy can attack a Player without the Player damaging it, every Enemy will have a Level, and will have a chance to drop an Item if it dies according to its Level	16
Entity		
	An alive Entity can be a Player or an Enemy (for now). It has HP, a Name and basic attributes, like BaseDMG and BaseDEF	21
Generic	Array< C >	
	This GenericArray can store any type of things dynamically. Maybe I will do a static version as well. Or just implement it with a bool. Time will tell	29
InfoPres	set .	
	A preset tool for displaying dynamic information about anything	33
Item		
	An Item can be stored in a storage and also has a type. Depending on the type, an Item can heal the player or damage an enemy, etc	38
Player		
	Player has Gold and a Storage in which it can hold some Item. The Player will be able to spend Gold in the Shop	46
Storage		
	A Storage is able to store Items, but to a limited extent (MaxSize). Also has a Name and a Description	52
String		
	Seperate String class, because STL are not allowed	64
gtest_lite	e::Test	68

6 Class Index

## **Chapter 4**

# **Namespace Documentation**

#### 4.1 gtest\_lite Namespace Reference

gtest lite: a keretrendszer függvényinek és objektumainak névtere

#### **Classes**

struct Test

#### **Functions**

```
    template<typename T1, typename T2 >
    std::ostream & EXPECT_ (T1 exp, T2 act, bool(*pred)(T1, T2), const char *file, int line, const char *expr,
    const char *lhs="elvart", const char *rhs="aktual")
```

általános sablon a várt értékhez.

- template<typename T1, typename T2 >
   std::ostream & EXPECT\_ (T1 \*exp, T2 \*act, bool(\*pred)(T1 \*, T2 \*), const char \*file, int line, const char \*expr, const char \*lhs="elvart", const char \*rhs="aktual")
  - pointerre specializált sablon a várt értékhez.
- std::ostream & EXPECTSTR (const char \*exp, const char \*act, bool(\*pred)(const char \*, const char \*), const char \*file, int line, const char \*expr, const char \*lhs="elvart", const char \*rhs="aktual")
- template < typename T1 , typename T2 > bool eq (T1 a, T2 b)
- bool eqstr (const char \*a, const char \*b)
- template<typename T1 , typename T2 > bool ne (T1 a, T2 b)
- bool nestr (const char \*a, const char \*b)
- template<typename T1 , typename T2 > bool le (T1 a, T2 b)
- template<typename T1 , typename T2 > bool It (T1 a, T2 b)
- template<typename T1 , typename T2 > bool ge (T1 a, T2 b)
- template<typename T1 , typename T2 > bool gt (T1 a, T2 b)
- template<typename T > bool almostEQ (T a, T b)

#### 4.1.1 Detailed Description

gtest\_lite: a keretrendszer függvényinek és objektumainak névtere

#### 4.1.2 Function Documentation

#### 4.1.2.1 almostEQ()

Segédsablon valós számok összehasonlításához Nem bombabiztos, de nekünk most jó lesz Elméleti hátér: http://www.cygnus-software.com/papers/comparingfloats/comparingfloats.htm

#### 4.1.2.2 eq()

segéd sablonok a relációkhoz. azért nem STL (algorithm), mert csak a függvény lehet, hogy menjen a deduckció

#### 4.1.2.3 eqstr()

#### 4.1.2.4 EXPECT\_() [1/2]

pointerre specializált sablon a várt értékhez.

Here is the call graph for this function:

#### 4.1.2.5 EXPECT\_() [2/2]

általános sablon a várt értékhez.

Here is the call graph for this function:



#### 4.1.2.6 EXPECTSTR()

```
const char * lhs = "elvart",
const char * rhs = "aktual" ) [inline]
```

stringek összehasonlításához. azért nem spec. mert a sima EQ-ra másként kell működnie. Here is the call graph for this function:



#### 4.1.2.7 ge()

#### 4.1.2.8 gt()

#### 4.1.2.9 le()

#### 4.1.2.10 lt()

#### 4.1.2.11 ne()

#### 4.1.2.12 nestr()

# **Chapter 5**

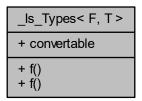
# **Class Documentation**

## 5.1 \_Is\_Types< F, T > Struct Template Reference

Segédsablon típuskonverzió futás közbeni ellenőrzésere.

```
#include <gtest_lite.h>
```

Collaboration diagram for \_Is\_Types< F, T >:



#### **Static Public Member Functions**

- template<typename D > static char(& f (D))[1]
- template<typename D > static char(& f (...))[2]

#### **Static Public Attributes**

• static const bool convertable = sizeof(f < T > (F())) == 1

#### 5.1.1 Detailed Description

```
template<typename F, typename T> struct _ls_Types< F, T >
```

Segédsablon típuskonverzió futás közbeni ellenőrzésere.

#### **5.1.2** Member Function Documentation

#### 5.1.2.1 f() [1/2]

#### 5.1.2.2 f() [2/2]

#### 5.1.3 Member Data Documentation

#### 5.1.3.1 convertable

```
\label{template} $$ template < typename T > $$ const bool _Is_Types < F, T >:: convertable = sizeof(f < T > (F())) == 1 [static]
```

#### 5.2 AttributeCheck< C > Class Template Reference

Predicatum, which determines if an item in an array has a specific attribute.

```
#include <Item.h>
```

Collaboration diagram for AttributeCheck< C >:

+ AttributeCheck()
+ operator()()
+ operator()()

#### **Public Member Functions**

• AttributeCheck (C Attribute)

Default Constructor.

• bool operator() (const C &c)

Decides if the attribute is equal.

• bool operator() (const Item &c)

Checks if the type of an Item is something.

#### 5.2.1 Detailed Description

```
\label{eq:class} \begin{tabular}{ll} template < class C> \\ class Attribute Check < C> \\ \end{tabular}
```

Predicatum, which determines if an item in an array has a specific attribute.

#### 5.2.2 Constructor & Destructor Documentation

#### 5.2.2.1 AttributeCheck()

Default Constructor.

#### 5.2.3 Member Function Documentation

#### 5.2.3.1 operator()() [1/2]

Decides if the attribute is equal.

#### 5.2.3.2 operator()() [2/2]

Checks if the type of an Item is something.

Here is the call graph for this function:

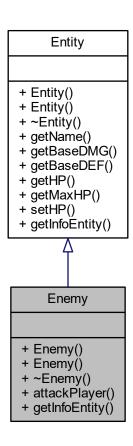


## 5.3 Enemy Class Reference

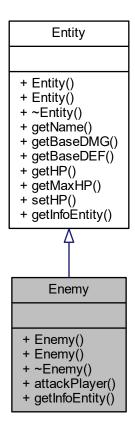
Enemy can attack a Player without the Player damaging it, every Enemy will have a Level, and will have a chance to drop an Item if it dies according to its Level.

```
#include <Enemy.h>
```

Inheritance diagram for Enemy:



Collaboration diagram for Enemy:



#### **Public Member Functions**

- Enemy (const char \*Name, double HP=100, double MaxHP=100, double BaseDMG=5, double BaseDEF=5)

  Constructor.
- Enemy (double HP=100, double MaxHP=100, double BaseDMG=5, double BaseDEF=5)
   Default Constructor.
- virtual ∼Enemy ()

Destructor.

void attackPlayer (Player &PLYR, Item WS=Item())

Attack Player without taking Damage from it.

• std::ostream & getInfoEntity (InfoPreset Preset=InfoPreset(), std::ostream &os=std::cout)

Displays the info of an Enemy, dynamically controlable with an InfoPreset.

#### 5.3.1 Detailed Description

Enemy can attack a Player without the Player damaging it, every Enemy will have a Level, and will have a chance to drop an Item if it dies according to its Level.

#### 5.3.2 Constructor & Destructor Documentation

#### 5.3.2.1 Enemy() [1/2]

Constructor.

#### 5.3.2.2 Enemy() [2/2]

Default Constructor.

#### 5.3.2.3 $\sim$ Enemy()

```
Enemy::\simEnemy ( ) [virtual]
```

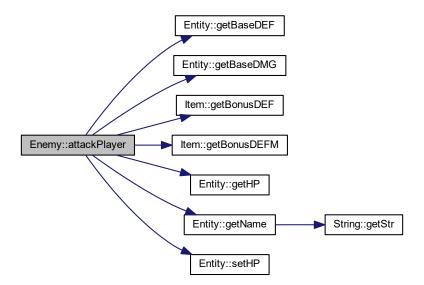
Destructor.

#### 5.3.3 Member Function Documentation

#### 5.3.3.1 attackPlayer()

Attack Player without taking Damage from it.

Here is the call graph for this function:

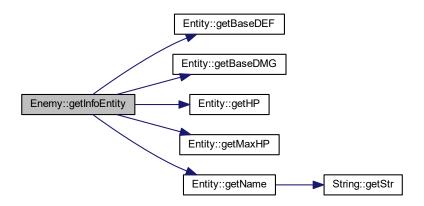


#### 5.3.3.2 getInfoEntity()

Displays the info of an Enemy, dynamically controlable with an InfoPreset.

Implements Entity.

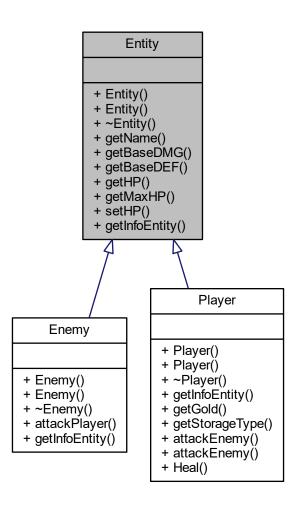
Here is the call graph for this function:



### 5.4 Entity Class Reference

An alive Entity can be a Player or an Enemy (for now). It has HP, a Name and basic attributes, like BaseDMG and BaseDEF.

Inheritance diagram for Entity:



Collaboration diagram for Entity:

# + Entity() + Entity() + Entity() + getName() + getBaseDMG() + getBaseDEF() + getHP() + getMaxHP() + setHP() + getInfoEntity()

#### **Public Member Functions**

- Entity (const char \*Name, double HP=100, double MaxHP=100, double BaseDMG=5, double BaseDEF=5)

  Constructor.
- Entity (double HP=100, double MaxHP=100, double BaseDMG=5, double BaseDEF=5)

Default Constructor.

• virtual  $\sim$ Entity ()

Destructor.

const char \* getName ()

Gets Entity's name.

• double getBaseDMG ()

Gets Entity's Base Damage.

• double getBaseDEF ()

Gets Entity's Base Defense.

• double getHP ()

Gets Entity's HP.

• double getMaxHP ()

Gets Entity's MaxHP.

void setHP (const double hp)

Sets Entity's HP.

• virtual std::ostream & getInfoEntity (InfoPreset Preset=InfoPreset(), std::ostream &os=std::cout)=0

Displays the info of an Entity, dynamically controlable with an InfoPreset.

#### 5.4.1 Detailed Description

An alive Entity can be a Player or an Enemy (for now). It has HP, a Name and basic attributes, like BaseDMG and BaseDEF.

#### 5.4.2 Constructor & Destructor Documentation

#### 5.4.2.1 Entity() [1/2]

Constructor.

#### 5.4.2.2 Entity() [2/2]

Default Constructor.

#### 5.4.2.3 ∼Entity()

```
Entity::\simEntity ( ) [virtual]
```

Destructor.

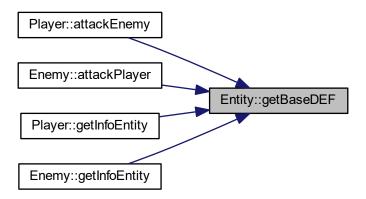
#### 5.4.3 Member Function Documentation

#### 5.4.3.1 getBaseDEF()

```
double Entity::getBaseDEF ( )
```

Gets Entity's Base Defense.

Here is the caller graph for this function:

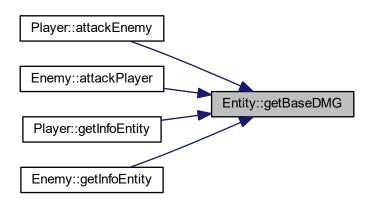


#### 5.4.3.2 getBaseDMG()

```
double Entity::getBaseDMG ( )
```

Gets Entity's Base Damage.

Here is the caller graph for this function:

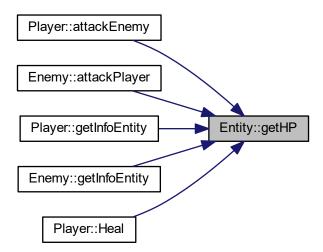


#### 5.4.3.3 getHP()

```
double Entity::getHP ( )
```

Gets Entity's HP.

Here is the caller graph for this function:



#### 5.4.3.4 getInfoEntity()

Displays the info of an Entity, dynamically controlable with an InfoPreset.

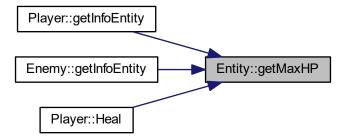
Implemented in Enemy, and Player.

#### 5.4.3.5 getMaxHP()

```
double Entity::getMaxHP ( )
```

Gets Entity's MaxHP.

Here is the caller graph for this function:



#### 5.4.3.6 getName()

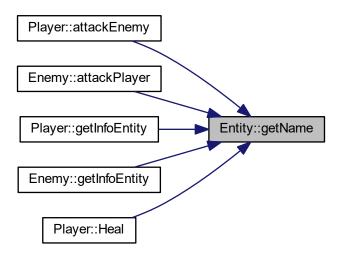
```
const char * Entity::getName ( )
```

Gets Entity's name.

Here is the call graph for this function:



Here is the caller graph for this function:

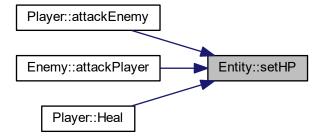


#### 5.4.3.7 setHP()

```
void Entity::setHP ( {\tt const\ double\ } hp\ )
```

#### Sets Entity's HP.

Here is the caller graph for this function:



# 5.5 GenericArray< C > Class Template Reference

This GenericArray can store any type of things dynamically. Maybe I will do a static version as well. Or just implement it with a bool. Time will tell...

```
#include <GenericArray.h>
```

Collaboration diagram for GenericArray < C >:

# GenericArray< C >

- + GenericArray()
- + GenericArray()
- + ~GenericArray()
- + add()
- + remove()
- + clear()
- + operator[]()
- + operator[]()
- + getSize()
- + getPredNum()

# **Public Member Functions**

· GenericArray ()

Default Constructor.

GenericArray (const GenericArray< C > &GA)

Copy Constructor.

virtual ∼GenericArray ()

Destructor.

• void add (const C &Element)

Adding an Element to the Array.

void remove (const size\_t &Index)

Removes an Element from the Array.

• void clear ()

Clears (deletes and then reallocate) the Array.

• C & operator[] (size\_t Index) const

Accessing Data as constant.

C & operator[] (size\_t Index)

Accessing Data.

const size\_t & getSize ()

Get Size of the Array.

template < class Pred >

size\_t getPredNum (Pred pred)

Get Number of specific Items in the Array.

# 5.5.1 Detailed Description

```
template < class C> class Generic Array < C>
```

This GenericArray can store any type of things dynamically. Maybe I will do a static version as well. Or just implement it with a bool. Time will tell...

#### 5.5.2 Constructor & Destructor Documentation

### 5.5.2.1 GenericArray() [1/2]

```
template<class C >
GenericArray< C >::GenericArray ( ) [inline]
```

Default Constructor.

## 5.5.2.2 GenericArray() [2/2]

Copy Constructor.

### 5.5.2.3 ∼GenericArray()

```
template<class C >
virtual GenericArray< C >::~GenericArray ( ) [inline], [virtual]
```

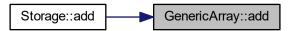
Destructor.

### 5.5.3 Member Function Documentation

#### 5.5.3.1 add()

Adding an Element to the Array.

Here is the caller graph for this function:



#### 5.5.3.2 clear()

```
template<class C >
void GenericArray< C >::clear ( ) [inline]
```

Clears (deletes and then reallocate) the Array.

Here is the caller graph for this function:



# 5.5.3.3 getPredNum()

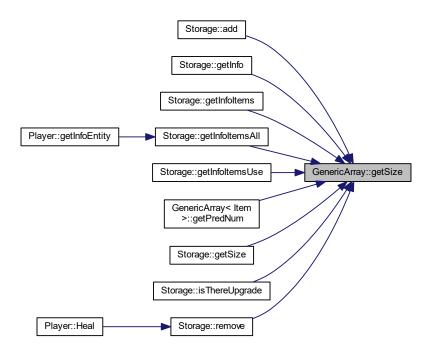
Get Number of specific Items in the Array.

#### 5.5.3.4 getSize()

```
template<class C >
const size_t& GenericArray< C >::getSize ( ) [inline]
```

Get Size of the Array.

Here is the caller graph for this function:



# 5.5.3.5 operator[]() [1/2]

Accessing Data.

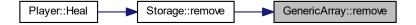
### 5.5.3.6 operator[]() [2/2]

Accessing Data as constant.

### 5.5.3.7 remove()

Removes an Element from the Array.

Here is the caller graph for this function:

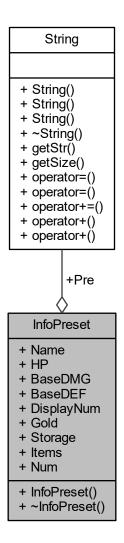


# 5.6 InfoPreset Class Reference

A preset tool for displaying dynamic information about anything.

#include <InfoPreset.h>

Collaboration diagram for InfoPreset:



# **Public Member Functions**

• InfoPreset (const char \*cPre="", bool Name=true, bool HP=true, bool BaseDMG=true, bool BaseDEF=true, bool DisplayNum=false, bool Gold=true, bool Storage=true, bool Items=true, const size\_t &dNum=0)

Constructor.

virtual ∼InfoPreset ()

Destructor.

### **Public Attributes**

• bool Name

Displays Name.

bool HP

Displays HP of an Entity or Healing for a Potion.

bool BaseDMG

Displays BonusDMG and BonusDMGM of a Weapon/Shield or BaseDMG for an Entity.

bool BaseDEF

Displays BonusDEF and BonusDEFM of a Weapon/Shield or BaseDEF for an Entity.

bool DisplayNum

Displays a given number, like the index of an Enemy before its Name.

String Pre

A String, which is displayed before everything, it can give some context.

· bool Gold

Displays the Player's Gold.

· bool Storage

Displays the Player's Storage.

· bool Items

Displays the Player's Storage's Items.

size\_t Num

If DisplayNum is TRUE, then it displays this Number.

# 5.6.1 Detailed Description

A preset tool for displaying dynamic information about anything.

#### 5.6.2 Constructor & Destructor Documentation

#### 5.6.2.1 InfoPreset()

```
InfoPreset::InfoPreset (
    const char * cPre = "",
    bool Name = true,
    bool HP = true,
    bool BaseDMG = true,
    bool BaseDEF = true,
    bool DisplayNum = false,
    bool Gold = true,
    bool Storage = true,
    bool Items = true,
    const size_t & dNum = 0 ) [inline]
```

Constructor.

#### 5.6.2.2 ∼InfoPreset()

```
virtual InfoPreset::~InfoPreset ( ) [inline], [virtual]
```

Destructor.

### 5.6.3 Member Data Documentation

#### 5.6.3.1 BaseDEF

bool InfoPreset::BaseDEF

Displays BonusDEF and BonusDEFM of a Weapon/Shield or BaseDEF for an Entity.

#### 5.6.3.2 BaseDMG

bool InfoPreset::BaseDMG

Displays BonusDMG and BonusDMGM of a Weapon/Shield or BaseDMG for an Entity.

### 5.6.3.3 DisplayNum

bool InfoPreset::DisplayNum

Displays a given number, like the index of an Enemy before its Name.

# 5.6.3.4 Gold

bool InfoPreset::Gold

Displays the Player's Gold.

#### 5.6.3.5 HP

bool InfoPreset::HP

Displays HP of an Entity or Healing for a Potion.

### 5.6.3.6 Items

bool InfoPreset::Items

Displays the Player's Storage's Items.

### 5.6.3.7 Name

bool InfoPreset::Name

Displays Name.

#### 5.6.3.8 Num

size\_t InfoPreset::Num

If DisplayNum is TRUE, then it displays this Number.

#### 5.6.3.9 Pre

String InfoPreset::Pre

A String, which is displayed before everything, it can give some context.

# 5.6.3.10 Storage

bool InfoPreset::Storage

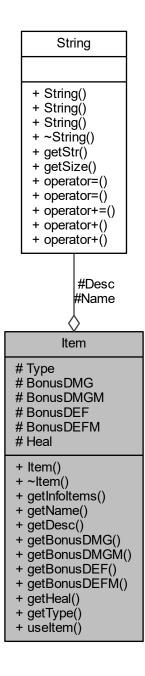
Displays the Player's Storage.

# 5.7 Item Class Reference

An Item can be stored in a storage and also has a type. Depending on the type, an Item can heal the player or damage an enemy, etc.

```
#include <Item.h>
```

Collaboration diagram for Item:



5.7 Item Class Reference 39

#### **Public Member Functions**

• Item (const ItemType Type=ItemType::WeaponShield, const char \*Name="DisItem", const char \*Desc="This is an Item.", const double &BonusDMG=0, const double &BonusDMGM=1, const double &BonusDEF=0, const double &BonusDEFM=1, const double &Heal=0)

Default Constructor.

virtual ∼Item ()

Destructor.

• virtual std::ostream & getInfoItems (InfoPreset Preset=InfoPreset(), std::ostream &os=std::cout)

Writes out the Item's info to an output.

const char \* getName ()

Gets Name.

const char \* getDesc ()

Gets Description.

double getBonusDMG ()

Gets Additive Bonus Damage of Item.

• double getBonusDMGM ()

Gets Multiplied Bonus Damage of Item.

double getBonusDEF ()

Gets Additive Bonus Defense of Item.

• double getBonusDEFM ()

Gets Multiplied Bonus Defense of Item.

• double getHeal ()

Gets Healing of Item.

• ItemType getType () const

Gets Type of Item.

• UseCases useItem ()

Use an Item.

#### **Protected Attributes**

ItemType Type

Type of the Item.

· String Name

Name of the Item.

String Desc

Description of the Item.

double BonusDMG

Additive Bonus Damage of Item.

• double BonusDMGM

Multiplied Bonus Damage of Item.

double BonusDEF

Additive Bonus Defense of Item.

• double BonusDEFM

Multiplied Bonus Defense of Item.

• double Heal

Healing of Item.

# 5.7.1 Detailed Description

An Item can be stored in a storage and also has a type. Depending on the type, an Item can heal the player or damage an enemy, etc.

#### 5.7.2 Constructor & Destructor Documentation

#### 5.7.2.1 Item()

Default Constructor.

#### 5.7.2.2 ∼ltem()

```
Item::\simItem ( ) [virtual]
```

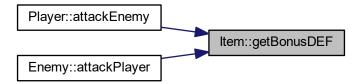
Destructor.

### 5.7.3 Member Function Documentation

#### 5.7.3.1 getBonusDEF()

```
double Item::getBonusDEF ( )
```

Gets Additive Bonus Defense of Item.



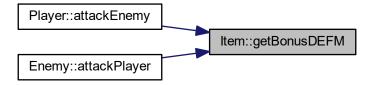
5.7 Item Class Reference 41

## 5.7.3.2 getBonusDEFM()

```
double Item::getBonusDEFM ( )
```

Gets Multiplied Bonus Defense of Item.

Here is the caller graph for this function:



### 5.7.3.3 getBonusDMG()

```
double Item::getBonusDMG ( )
```

Gets Additive Bonus Damage of Item.



# 5.7.3.4 getBonusDMGM()

```
double Item::getBonusDMGM ( ) \,
```

Gets Multiplied Bonus Damage of Item.

Here is the caller graph for this function:



# 5.7.3.5 getDesc()

```
const char * Item::getDesc ( )
```

Gets Description.

Here is the call graph for this function:



# 5.7.3.6 getHeal()

```
double Item::getHeal ( )
```

Gets Healing of Item.

5.7 Item Class Reference 43

### 5.7.3.7 getInfoltems()

Writes out the Item's info to an output.

#### 5.7.3.8 getName()

```
const char * Item::getName ( )
```

Gets Name.

Here is the call graph for this function:



Here is the caller graph for this function:

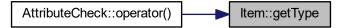


# 5.7.3.9 getType()

```
ItemType Item::getType ( ) const
```

Gets Type of Item.

Here is the caller graph for this function:



#### 5.7.3.10 useltem()

```
UseCases Item::useItem ( )
```

Use an Item.

Use a Weapon/Shield

Use a Healing Potion

### 5.7.4 Member Data Documentation

#### 5.7.4.1 BonusDEF

```
double Item::BonusDEF [protected]
```

Additive Bonus Defense of Item.

#### 5.7.4.2 BonusDEFM

```
double Item::BonusDEFM [protected]
```

Multiplied Bonus Defense of Item.

### 5.7.4.3 BonusDMG

```
double Item::BonusDMG [protected]
```

Additive Bonus Damage of Item.

5.7 Item Class Reference 45

### 5.7.4.4 BonusDMGM

double Item::BonusDMGM [protected]

Multiplied Bonus Damage of Item.

### 5.7.4.5 Desc

```
String Item::Desc [protected]
```

Description of the Item.

#### 5.7.4.6 Heal

double Item::Heal [protected]

Healing of Item.

# 5.7.4.7 Name

String Item::Name [protected]

Name of the Item.

# 5.7.4.8 Type

ItemType Item::Type [protected]

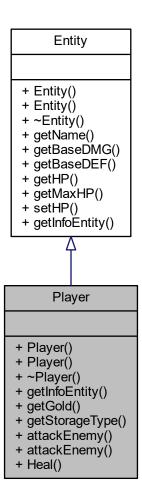
Type of the Item.

# 5.8 Player Class Reference

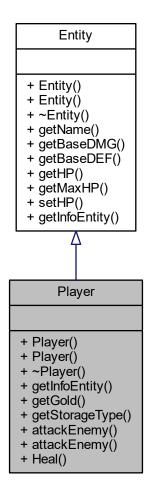
Player has Gold and a Storage in which it can hold some Item. The Player will be able to spend Gold in the Shop.

#include <Player.h>

Inheritance diagram for Player:



Collaboration diagram for Player:



# **Public Member Functions**

• Player (const char \*Name, double HP=100, double MaxHP=100, double BaseDMG=5, double BaseDEF=5, size\_t Gold=0, Storage StorageType=Storage())

Constructor.

- Player (double HP=100, double MaxHP=100, double BaseDMG=5, double BaseDEF=5, size\_t Gold=0)
   Default Constructor.
- virtual ∼Player ()

Destructor.

- std::ostream & getInfoEntity (InfoPreset Preset=InfoPreset(), std::ostream &os=std::cout)

  Writes out the Player's info to an output.
- size\_t getGold ()

Gets Player's amount of Gold.

• Storage & getStorageType ()

Gets Player's type of Storage.

void attackEnemy (Enemy &e)

### 5.8.1 Detailed Description

Player has Gold and a Storage in which it can hold some Item. The Player will be able to spend Gold in the Shop.

#### 5.8.2 Constructor & Destructor Documentation

#### 5.8.2.1 Player() [1/2]

Constructor.

### 5.8.2.2 Player() [2/2]

Default Constructor.

#### 5.8.2.3 ∼Player()

```
Player::~Player ( ) [virtual]
```

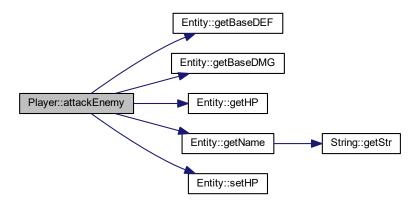
Destructor.

# 5.8.3 Member Function Documentation

#### 5.8.3.1 attackEnemy() [1/2]

Attack an Enemy.

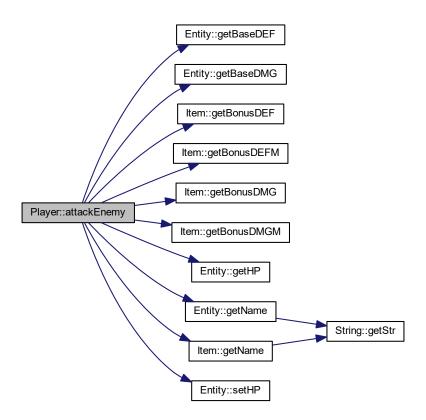
Here is the call graph for this function:



### 5.8.3.2 attackEnemy() [2/2]

Attack an Enemy with a Weapon/Shield.

Here is the call graph for this function:



# 5.8.3.3 getGold()

```
size_t Player::getGold ( )
```

Gets Player's amount of Gold.

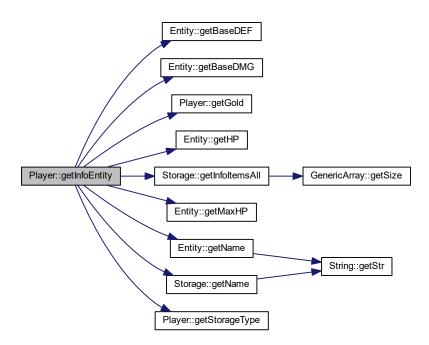


### 5.8.3.4 getInfoEntity()

Writes out the Player's info to an output.

Implements Entity.

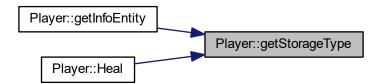
Here is the call graph for this function:



# 5.8.3.5 getStorageType()

```
Storage & Player::getStorageType ( )
```

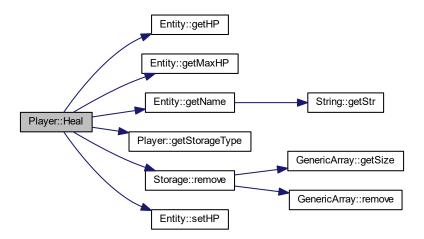
Gets Player's type of Storage.



### 5.8.3.6 Heal()

Healing with an Item.

Here is the call graph for this function:

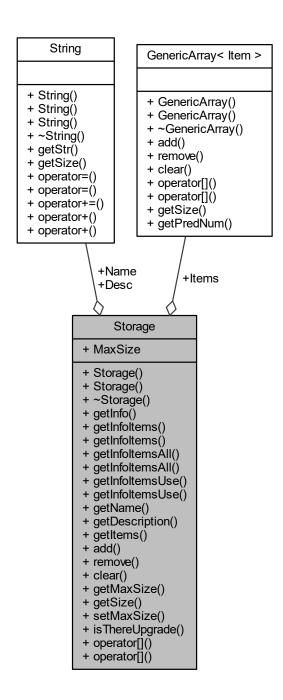


# 5.9 Storage Class Reference

A Storage is able to store Items, but to a limited extent (MaxSize). Also has a Name and a Description.

#include <Storage.h>

Collaboration diagram for Storage:



# **Public Member Functions**

- Storage (const char \*Name="BakPak", const char \*Desc="This is a BakPak.", size\_t MaxSize=5)
   Default Constructor.
- Storage (const Storage &S)

Copy Constructor.

virtual ∼Storage ()

Destructor.

std::ostream & getInfo (std::ostream &os=std::cout)

Writes out the Storage's info to the console.

std::ostream & getInfoItems (InfoPreset Preset=InfoPreset(), std::ostream &os=std::cout)

Writes out the Item's infos in the Storage to the console.

Writes out a specific Item's infos in the Storage to the console.

std::ostream & getInfoItemsAll (std::ostream &os=std::cout)

Writes out the Item's infos in the Storage to the console.

std::ostream & getInfoItemsAll (const ItemType &Type, std::ostream &os=std::cout)

Writes out a specific Item's infos in the Storage to the console.

virtual std::ostream & getInfoItemsUse (std::ostream &os=std::cout)

Writes out the Item's infos in the Storage to the console.

virtual std::ostream & getInfoItemsUse (const ItemType &Type, std::ostream &os=std::cout)

Writes out a specific Item's infos in the Storage to the console.

const char \* getName ()

Gets Name.

• const char \* getDescription ()

Gets Description.

GenericArray< Item > getItems () const

Gets the Item's array, though cannot modify it.

• void add (const Item &Element)

Adds an Item to the Storage.

void remove (const size\_t &Index)

Removes an Item from the Storage according to its index.

• void clear ()

Clears the Storage.

• size\_t getMaxSize ()

Gets size of Storage.

• size\_t getSize ()

Gets number of Items in the of Storage.

void setMaxSize (const size\_t &SizeC)

Sets size of Storage.

• bool isThereUpgrade ()

Returns if there are upgrades in the inventory.

Item & operator[] (size\_t Index) const

Accessing an Item as constant.

Item & operator[] (size\_t Index)

Accessing an Item.

#### **Public Attributes**

· String Name

Name of the Storage.

String Desc

Description of the Storage.

size\_t MaxSize

Size of Storage, how many Item it can hold.

• GenericArray< Item > Items

Items in the Storage.

# 5.9.1 Detailed Description

A Storage is able to store Items, but to a limited extent (MaxSize). Also has a Name and a Description.

### 5.9.2 Constructor & Destructor Documentation

# 5.9.2.1 Storage() [1/2]

```
Storage::Storage (
            const char * Name = "BakPak",
            const char * Desc = "This is a BakPak.",
            size_t MaxSize = 5 )
```

Default Constructor.

### 5.9.2.2 Storage() [2/2]

```
Storage::Storage ( {\tt const~Storage~\&~S~)}
```

Copy Constructor.

# 5.9.2.3 ∼Storage()

```
Storage::\simStorage ( ) [virtual]
```

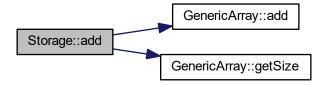
Destructor.

### 5.9.3 Member Function Documentation

# 5.9.3.1 add()

Adds an Item to the Storage.

Here is the call graph for this function:



# 5.9.3.2 clear()

```
void Storage::clear ( )
```

Clears the Storage.



#### 5.9.3.3 getDescription()

```
const char * Storage::getDescription ( )
```

Gets Description.

Here is the call graph for this function:



### 5.9.3.4 getInfo()

```
std::ostream & Storage::getInfo (  std::ostream \ \& \ os = std::cout \ )
```

Writes out the Storage's info to the console.

Here is the call graph for this function:



# 5.9.3.5 getInfoltems() [1/2]

Writes out a specific Item's infos in the Storage to the console.

Here is the call graph for this function:



#### 5.9.3.6 getInfoltems() [2/2]

Writes out the Item's infos in the Storage to the console.

Here is the call graph for this function:



### 5.9.3.7 getInfoltemsAll() [1/2]

Writes out a specific Item's infos in the Storage to the console.



#### 5.9.3.8 getInfoltemsAll() [2/2]

Writes out the Item's infos in the Storage to the console.

Here is the call graph for this function:



Here is the caller graph for this function:



# 5.9.3.9 getInfoltemsUse() [1/2]

Writes out a specific Item's infos in the Storage to the console.



### 5.9.3.10 getInfoltemsUse() [2/2]

Writes out the Item's infos in the Storage to the console.

Here is the call graph for this function:



### 5.9.3.11 getItems()

```
GenericArray< Item > Storage::getItems ( ) const
```

Gets the Item's array, though cannot modify it.

#### 5.9.3.12 getMaxSize()

```
size_t Storage::getMaxSize ( )
```

Gets size of Storage.

#### 5.9.3.13 getName()

```
const char * Storage::getName ( )
```

Gets Name.



Here is the caller graph for this function:



#### 5.9.3.14 getSize()

```
size_t Storage::getSize ( )
```

Gets number of Items in the of Storage.

Here is the call graph for this function:



### 5.9.3.15 isThereUpgrade()

```
bool Storage::isThereUpgrade ( )
```

Returns if there are upgrades in the inventory.



### 5.9.3.16 operator[]() [1/2]

Accessing an Item.

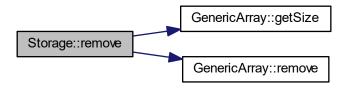
### 5.9.3.17 operator[]() [2/2]

Accessing an Item as constant.

### 5.9.3.18 remove()

Removes an Item from the Storage according to its index.

Here is the call graph for this function:





### 5.9.3.19 setMaxSize()

Sets size of Storage.

# 5.9.4 Member Data Documentation

### 5.9.4.1 Desc

```
String Storage::Desc
```

Description of the Storage.

#### 5.9.4.2 Items

GenericArray<Item> Storage::Items

Items in the Storage.

### 5.9.4.3 MaxSize

```
size_t Storage::MaxSize
```

Size of Storage, how many Item it can hold.

# 5.9.4.4 Name

String Storage::Name

Name of the Storage.

# 5.10 String Class Reference

Seperate String class, because STL are not allowed...

#include <String.h>

Collaboration diagram for String:

# String + String() + String() + String() + cString() + getStr() + getSize() + operator=() + operator=() + operator+() + operator+()

#### **Public Member Functions**

• String (String const &str)

Copy Constructor.

• String (const char \*str="")

Default Constructor from const char\*.

String (const char c)

Constructor from char.

• virtual  $\sim$ String ()

Destructor.

const char \* getStr ()

Return the content of the String.

• const size\_t getSize ()

Return the length of the String.

String & operator= (const String &rhs\_s)

Assign the String's data to the String.

• String & operator= (const char \*rhs\_s)

Assign const char\*'s data to the String.

• String & operator+= (const String &rhs\_s)

Adding String to the original.

String operator+ (const String &rhs\_s) const

Adding 2 Strings together (returns constant)

• String operator+ (char rhs\_c) const

Adding a char to the String (returns constant)

# 5.10.1 Detailed Description

Seperate String class, because STL are not allowed...

# 5.10.2 Constructor & Destructor Documentation

#### 5.10.2.1 String() [1/3]

Copy Constructor.

Here is the caller graph for this function:



# 5.10.2.2 String() [2/3]

Default Constructor from const char\*.

# **5.10.2.3 String()** [3/3]

```
String::String ( const char c )
```

Constructor from char.

#### 5.10.2.4 ∼String()

```
virtual String::~String ( ) [inline], [virtual]
```

Destructor.

#### 5.10.3 Member Function Documentation

#### 5.10.3.1 getSize()

```
const size_t String::getSize ( ) [inline]
```

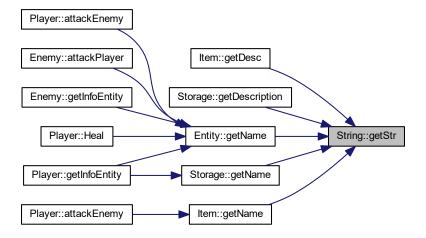
Return the length of the String.

#### 5.10.3.2 getStr()

```
const char* String::getStr ( ) [inline]
```

Return the content of the String.

Here is the caller graph for this function:



#### 5.10.3.3 operator+() [1/2]

Adding a char to the String (returns constant)

Here is the call graph for this function:



#### 5.10.3.4 operator+() [2/2]

```
String String::operator+ ( {\tt const~String~\&~rhs\_s~)~const}
```

Adding 2 Strings together (returns constant)

# 5.10.3.5 operator+=()

Adding String to the original.

# 5.10.3.6 operator=() [1/2]

Assign const char\*'s data to the String.

#### 5.10.3.7 operator=() [2/2]

Assign the String's data to the String.

# 5.11 gtest\_lite::Test Struct Reference

```
#include <gtest_lite.h>
```

Collaboration diagram for gtest lite::Test:

# gtest\_lite::Test + sum + failed + ablocks + status + tmp + name + null + begin() + end() + fail() + expect() + ~Test() + getTest()

#### **Public Member Functions**

```
• void begin (const char *n)
```

Teszt kezdete.

• std::ostream & end (bool memchk=false)

Teszt vége.

- bool fail ()
- std::ostream & expect (bool st, const char \*file, int line, const char \*expr, bool pr=false)

Eredményt adminisztráló tagfüggvény True a jó eset.

∼Test ()

Destruktor.

#### **Static Public Member Functions**

static Test & getTest ()

# **Public Attributes**

• int sum

tesztek számlálója

· int failed

hibás tesztek

· int ablocks

allokált blokkok száma

· bool status

éppen futó teszt státusza.

bool tmp

temp a kivételkezeléshez;

• std::string name

éppen futó teszt neve.

std::fstream null

nyelő, ha nem kell kiírni semmit

# 5.11.1 Detailed Description

Tesztek állapotát tároló osztály. Egyetlen egy statikus példány keletkezik, aminek a destruktora a futás végén hívódik meg.

# 5.11.2 Constructor & Destructor Documentation

# 5.11.2.1 $\sim$ Test()

```
\texttt{gtest\_lite::Test::} \sim \texttt{Test} \text{ ( ) } \quad \texttt{[inline]}
```

Destruktor.

# 5.11.3 Member Function Documentation

# 5.11.3.1 begin()

Teszt kezdete.

#### 5.11.3.2 end()

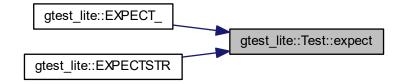
```
std::ostream& gtest_lite::Test::end (
    bool memchk = false ) [inline]
```

Teszt vége.

# 5.11.3.3 expect()

Eredményt adminisztráló tagfüggvény True a jó eset.

Here is the caller graph for this function:



# 5.11.3.4 fail()

```
bool gtest_lite::Test::fail ( ) [inline]
```

# 5.11.3.5 getTest()

```
static Test& gtest_lite::Test::getTest ( ) [inline], [static]
< egyedüli (singleton) példány</pre>
```

# 5.11.4 Member Data Documentation

#### 5.11.4.1 ablocks

int gtest\_lite::Test::ablocks

allokált blokkok száma

# 5.11.4.2 failed

int gtest\_lite::Test::failed

hibás tesztek

#### 5.11.4.3 name

std::string gtest\_lite::Test::name

éppen futó teszt neve.

#### 5.11.4.4 null

std::fstream gtest\_lite::Test::null

nyelő, ha nem kell kiírni semmit

#### 5.11.4.5 status

bool gtest\_lite::Test::status

éppen futó teszt státusza.

#### 5.11.4.6 sum

int gtest\_lite::Test::sum

tesztek számlálója

# 5.11.4.7 tmp

bool gtest\_lite::Test::tmp

temp a kivételkezeléshez;

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