

rootJS

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

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rootJS::FunctionProxyFactory	21
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Chapter 2

Class Index

2.1 Class List

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

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rootJS::BooleanProxy	7
rootJS::CallbackHandler	9
rootJS::ClassExposer	14
rootJS::FunctionInfo	15
rootJS::FunctionProxy	17
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Chapter 3

Class Documentation

3.1 rootJS::AsyncRunner Class Reference

```
#include <AsyncRunner.h>
```

Public Member Functions

- [AsyncRunner](#) (AsyncFunction func, void *param, v8::Persistent< v8::Function, v8::CopyablePersistentTraits< v8::Function >> callback)
- void [run](#) ()
- void [setResult](#) (std::vector< [ObjectProxy](#) * > result)

Static Public Member Functions

- static void [uvRunner](#) (uv_work_t *req)
- static void [uvCallback](#) (uv_work_t *req, int status)

3.1.1 Detailed Description

The [AsyncRunner](#) provides methods to enable asynchronous function execution.

Definition at line 16 of file AsyncRunner.h.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 rootJS::AsyncRunner::AsyncRunner (AsyncFunction *func*, void * *param*, v8::Persistent< v8::Function, v8::CopyablePersistentTraits< v8::Function >> *callback*)

Creates a new [AsyncRunner](#).

Parameters

<i>func</i>	The function to be called asynchronously.
<i>*param</i>	The parameters for the function.
<i>callback</i>	The callback to be executed in the node thread after the asynchronous function is finished.

Definition at line 4 of file AsyncRunner.cc.

3.1.3 Member Function Documentation

3.1.3.1 void rootJS::AsyncRunner::run ()

Runs the function given with the constructor asynchronously. After it has finished, the callback function is executed in the original node thread.

Definition at line 9 of file AsyncRunner.cc.

3.1.3.2 void rootJS::AsyncRunner::setResult (std::vector< ObjectProxy * > *result*) [inline]

Allows the asynchronous function to set its result.

Parameters

<i>result</i>	The result of the asynchronous function.
---------------	--

Definition at line 46 of file AsyncRunner.h.

3.1.3.3 void rootJS::AsyncRunner::uvCallback (uv_work_t * *req*, int *status*) [static]

Executes the callback function.

Parameters

<i>*req</i>	The libuv request, used to get context.
<i>status</i>	If the callback is canceled with uv_cancel() this is UV_ECANCELED.

Definition at line 20 of file AsyncRunner.cc.

3.1.3.4 void rootJS::AsyncRunner::uvRunner (uv_work_t * *req*) [static]

This needs to be implemented for libuv.

Parameters

<i>*req</i>	A libuv request.
-------------	------------------

Definition at line 15 of file AsyncRunner.cc.

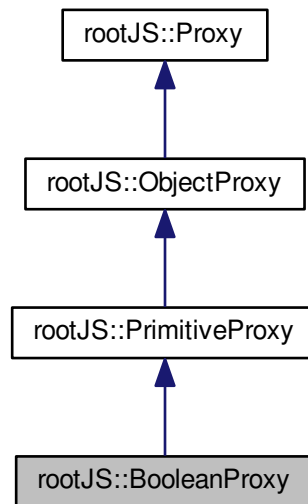
The documentation for this class was generated from the following files:

- src/AsyncRunner.h
- src/AsyncRunner.cc

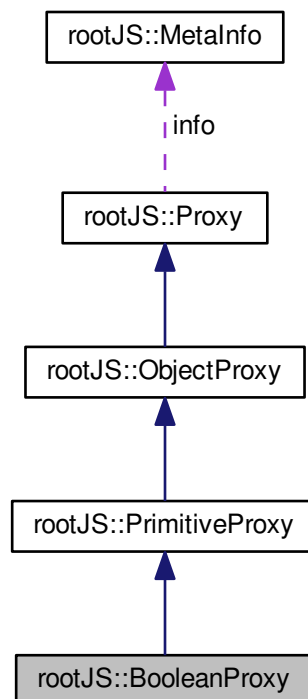
3.2 rootJS::BooleanProxy Class Reference

```
#include <BooleanProxy.h>
```

Inheritance diagram for rootJS::BooleanProxy:



Collaboration diagram for rootJS::BooleanProxy:



Public Member Functions

- [BooleanProxy](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- virtual v8::Local< v8::Value > [get](#) ()
- virtual void [setValue](#) (v8::Local< v8::Value > value)

Static Public Member Functions

- static bool [isBoolean](#) (std::string type)
- static [ObjectProxy](#) * [boolConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))

Additional Inherited Members

3.2.1 Detailed Description

Maps a C++/ROOT boolean to JavaScript boolean.

Definition at line 14 of file BooleanProxy.h.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 rootJS::BooleanProxy::BooleanProxy ([MetaInfo](#) & *info*, TClass * *scope*)

Create a new [BooleanProxy](#).

Parameters

<i>info</i>	the type of the excapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 22 of file BooleanProxy.cc.

3.2.3 Member Function Documentation

3.2.3.1 [ObjectProxy](#) * rootJS::BooleanProxy::boolConstruct ([MetaInfo](#) & *info*, TClass * *scope*) [static]

Creates a [BooleanProxy](#), can be derefered to be added to a map

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 31 of file BooleanProxy.cc.

3.2.3.2 v8::Local< v8::Value > rootJS::BooleanProxy::get () [virtual]

Returns a v8 Boolean depending on [MetaInfo](#)

Returns

boolean depending on [MetaInfo](#)

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 36 of file BooleanProxy.cc.

3.2.3.3 `bool rootJS::BooleanProxy::isBoolean (std::string type) [static]`

Check if the type is a boolean type.

Parameters

<i>type</i>	the type to be checked
-------------	------------------------

Returns

if the type is a boolean type

Definition at line 7 of file BooleanProxy.cc.

3.2.3.4 void rootJS::BooleanProxy::setValue (v8::Local< v8::Value > value) [virtual]

Sets the boolean in memory, using the data passed via JavaScript

Parameters

<i>value</i>	The value to be set
--------------	---------------------

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 42 of file BooleanProxy.cc.

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

- src/BooleanProxy.h
- src/BooleanProxy.cc

3.3 rootJS::CallbackHandler Class Reference

Static Public Member Functions

- static void [registerGlobalObject](#) (const std::string &name, [ObjectProxy](#) *proxy)
- static void [globalGetterCallback](#) (v8::Local< v8::String > property, const v8::PropertyCallbackInfo< v8::Value > &info)
- static void [globalSetterCallback](#) (v8::Local< v8::String > property, v8::Local< v8::Value > value, const v8::PropertyCallbackInfo< void > &info)
- static void [globalFunctionCallback](#) (const v8::FunctionCallbackInfo< v8::Value > &info)
- static void [registerStaticObject](#) (const std::string &name, TClass *scope, [ObjectProxy](#) *proxy)
- static void [staticGetterCallback](#) (v8::Local< v8::String > property, const v8::PropertyCallbackInfo< v8::Value > &info)
- static void [staticSetterCallback](#) (v8::Local< v8::String > property, v8::Local< v8::Value > value, const v8::PropertyCallbackInfo< void > &info)
- static void [staticFunctionCallback](#) (const v8::FunctionCallbackInfo< v8::Value > &info)
- static void [ctorCallback](#) (const v8::FunctionCallbackInfo< v8::Value > &info)
- static void [memberGetterCallback](#) (v8::Local< v8::String > property, const v8::PropertyCallbackInfo< v8::Value > &info)
- static void [memberSetterCallback](#) (v8::Local< v8::String > property, v8::Local< v8::Value > value, const v8::PropertyCallbackInfo< void > &info)
- static void [memberFunctionCallback](#) (const v8::FunctionCallbackInfo< v8::Value > &info)
- static v8::Local< v8::Value > [createFunctionCallbackData](#) (std::string functionName, TClass *scope)
- static v8::Local< v8::Value > [createFunctionCallbackData](#) (TClass *scope)

Static Public Attributes

- static const std::string **CALLBACK_DATA_DELIMITER** = "#"

3.3.1 Detailed Description

Definition at line 19 of file CallbackHandler.h.

3.3.2 Member Function Documentation

3.3.2.1 void rootJS::CallbackHandler::ctorCallback (const v8::FunctionCallbackInfo< v8::Value > & *info*) [static]

This callback method may be invoked whenever a JavaScript prototype function of an encapsulated ROOT class was called.

Based on the supplied arguments the suitable C++ constructor will be called. Then the newly created instance will be wrapped into an [ObjectProxy](#). As result the [ObjectProxy](#)'s corresponding JavaScript object will be returned to the Node.js application.

In order to enable non blocking object creation one can supply a JavaScript callback function as last argument of the prototype function. After the asynchronous object creation is finished the supplied callback will be invoked for returning the generated JavasSript proxy.

Parameters

<i>info</i>	the argument information given to this function call callback
-------------	---

Definition at line 175 of file CallbackHandler.cc.

3.3.2.2 void rootJS::CallbackHandler::globalFunctionCallback (const v8::FunctionCallbackInfo< v8::Value > & *info*) [static]

TODO: fill in description

Parameters

<i>info</i>	
-------------	--

Definition at line 44 of file CallbackHandler.cc.

3.3.2.3 void rootJS::CallbackHandler::globalGetterCallback (v8::Local< v8::String > *property*, const v8::PropertyCallbackInfo< v8::Value > & *info*) [static]

TODO: fill in description

Parameters

<i>property</i>	
<i>info</i>	

Definition at line 26 of file CallbackHandler.cc.

3.3.2.4 void rootJS::CallbackHandler::globalSetterCallback (v8::Local< v8::String > *property*, v8::Local< v8::Value > *value*, const v8::PropertyCallbackInfo< void > & *info*) [static]

TODO: fill in description

Parameters

<i>property</i>	
<i>value</i>	
<i>info</i>	

Definition at line 35 of file CallbackHandler.cc.

3.3.2.5 void rootJS::CallbackHandler::memberFunctionCallback (const v8::FunctionCallbackInfo< v8::Value > & *info*)
[static]

TODO: fill in description

Parameters

<i>info</i>	
-------------	--

Definition at line 250 of file CallbackHandler.cc.

3.3.2.6 void rootJS::CallbackHandler::memberGetterCallback (v8::Local< v8::String > *property*, const v8::PropertyCallbackInfo< v8::Value > & *info*) [static]

TODO: fill in description

Parameters

<i>property</i>	
<i>info</i>	

Definition at line 244 of file CallbackHandler.cc.

3.3.2.7 void rootJS::CallbackHandler::memberSetterCallback (v8::Local< v8::String > *property*, v8::Local< v8::Value > *value*, const v8::PropertyCallbackInfo< void > & *info*) [static]

TODO: fill in description

Parameters

<i>property</i>	
<i>value</i>	
<i>info</i>	

Definition at line 247 of file CallbackHandler.cc.

3.3.2.8 void rootJS::CallbackHandler::registerGlobalObject (const std::string & *name*, ObjectProxy * *proxy*)
[static]

TODO: fill in description

Parameters

<i>name</i>	
<i>proxy</i>	

Definition at line 21 of file CallbackHandler.cc.

3.3.2.9 void rootJS::CallbackHandler::registerStaticObject (const std::string & *name*, TClass * *scope*, ObjectProxy * *proxy*) [static]

TODO: fill in description

Parameters

<i>name</i>	
<i>proxy</i>	

Definition at line 108 of file CallbackHandler.cc.

3.3.2.10 void rootJS::CallbackHandler::staticFunctionCallback (const v8::FunctionCallbackInfo< v8::Value > & *info*)
[static]

TODO: fill in description

Parameters

<i>info</i>	
-------------	--

Definition at line 126 of file CallbackHandler.cc.

3.3.2.11 void rootJS::CallbackHandler::staticGetterCallback (v8::Local< v8::String > *property*, const v8::PropertyCallbackInfo< v8::Value > & *info*) [static]

TODO: fill in description

Parameters

<i>property</i>	
<i>info</i>	

Definition at line 120 of file CallbackHandler.cc.

3.3.2.12 void rootJS::CallbackHandler::staticSetterCallback (v8::Local< v8::String > *property*, v8::Local< v8::Value > *value*, const v8::PropertyCallbackInfo< void > & *info*) [static]

TODO: fill in description

Parameters

<i>property</i>	
<i>value</i>	
<i>info</i>	

Definition at line 123 of file CallbackHandler.cc.

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

- src/CallbackHandler.h
- src/CallbackHandler.cc

3.4 rootJS::ClassExposer Class Reference

Static Public Member Functions

- static void **expose** (TClass *, v8::Local< v8::Object >) throw (std::invalid_argument)
- static std::vector< std::string > **splitClassName** (std::string name, std::vector< std::string > &vec)

3.4.1 Detailed Description

Definition at line 9 of file ClassExposer.h.

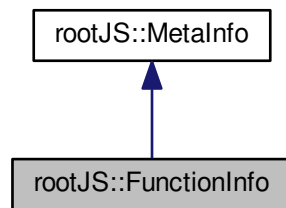
The documentation for this class was generated from the following files:

- src/ClassExposer.h
- src/ClassExposer.cc

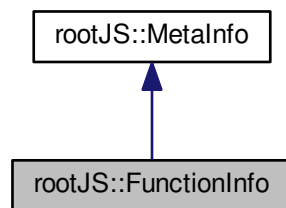
3.5 rootJS::FunctionInfo Class Reference

```
#include <FunctionInfo.h>
```

Inheritance diagram for rootJS::FunctionInfo:



Collaboration diagram for rootJS::FunctionInfo:



Public Member Functions

- **FunctionInfo** (const TFunction &type, void *[baseAddress](#))
- **FunctionInfo** (const TFunction &type, void *[baseAddress](#), bool [isGlobal](#))
- virtual Long_t [getOffset](#) ()
- virtual bool [isGlobal](#) ()
- virtual bool [isConst](#) ()
- virtual bool [isStatic](#) ()
- virtual const char * [getTypeName](#) ()
- virtual const char * [getName](#) ()
- virtual [FunctionInfo](#) * [clone](#) ()

Additional Inherited Members

3.5.1 Detailed Description

This class contains the info for a TFunction

Definition at line 14 of file FunctionInfo.h.

3.5.2 Member Function Documentation

3.5.2.1 `FunctionInfo * rootJS::FunctionInfo::clone ()` [virtual]

Makes a clone of the [MetalInfo](#) instance.

Returns

Pointer to the cloned [MetalInfo](#) instance

Implements [rootJS::MetalInfo](#).

Definition at line 45 of file `FunctionInfo.cc`.

3.5.2.2 `const char * rootJS::FunctionInfo::getName ()` [virtual]

Returns the name of the TObject.

Returns

name of the TObject

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 40 of file `FunctionInfo.cc`.

3.5.2.3 `Long_t rootJS::FunctionInfo::getOffset ()` [virtual]

Get the offset. This calls up the `TDataMember::GetOffset()` function.

Returns

The offset

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 15 of file `FunctionInfo.cc`.

3.5.2.4 `const char * rootJS::FunctionInfo::getTypeName ()` [virtual]

Returns the typename of the TObject.

Returns

Typename of the TObject

Implements [rootJS::MetalInfo](#).

Definition at line 35 of file `FunctionInfo.cc`.

3.5.2.5 `bool rootJS::FunctionInfo::isConst ()` [virtual]

Checks if the TObject is a constant.

Returns

If the TObject is a constant

Implements [rootJS::MetalInfo](#).

Definition at line 25 of file `FunctionInfo.cc`.

3.5.2.6 bool rootJS::FunctionInfo::isGlobal () [virtual]

Checks if the TObject is global.

Returns

If the TObject is global

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 20 of file FunctionInfo.cc.

3.5.2.7 bool rootJS::FunctionInfo::isStatic () [virtual]

Checks if the TObject is static.

Returns

If the TObject is static

Implements [rootJS::MetalInfo](#).

Definition at line 30 of file FunctionInfo.cc.

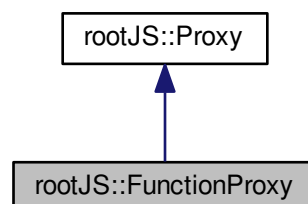
The documentation for this class was generated from the following files:

- src/FunctionInfo.h
- src/FunctionInfo.cc

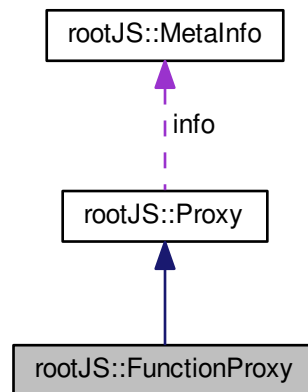
3.6 rootJS::FunctionProxy Class Reference

```
#include <FunctionProxy.h>
```

Inheritance diagram for rootJS::FunctionProxy:



Collaboration diagram for rootJS::FunctionProxy:



Public Member Functions

- [FunctionProxy](#) (void *address, [FunctionInfo](#) &info, TFunction *function, TClass *scope)
- [FunctionProxy](#) * clone ()
- void **prepareCall** (const v8::Local< v8::Array > &args)
- [ObjectProxy](#) * call (bool isConstructorCall=false)
- void [setSelfAddress](#) (void *addr)
- virtual bool [isConst](#) ()
- virtual bool [isGlobal](#) ()
- virtual bool [isStatic](#) ()
- virtual bool [isTemplate](#) ()

Static Public Member Functions

- static std::vector< TFunction * > [getMethodsFromName](#) (TClassRef scope, std::string name)
- static CallFunc_t * [getCallFunc](#) (const TClassRef &klass, TFunction *method)

Additional Inherited Members

3.6.1 Detailed Description

Represents a ROOT callable and provides functionality to invoke those callables. Also acts as a static cache for already created [FunctionProxy](#) objects.

Definition at line 30 of file FunctionProxy.h.

3.6.2 Constructor & Destructor Documentation

3.6.2.1 rootJS::FunctionProxy::FunctionProxy (void * address, [FunctionInfo](#) & info, TFunction * function, TClass * scope)

Create a new [FunctionProxy](#).

Parameters

<i>address</i>	memory address of the proxied function
<i>function</i>	the function's reflection object
<i>scope</i>	the class that the function belongs to

Definition at line 61 of file FunctionProxy.cc.

3.6.3 Member Function Documentation

3.6.3.1 `ObjectProxy * rootJS::FunctionProxy::call (bool isConstructorCall = false)`

Invokes the proxied function.

Parameters

<i>args</i>	the arguments for the function call.
-------------	--------------------------------------

Returns

the function's return value encapsulated in an [ObjectProxy](#)

Definition at line 176 of file FunctionProxy.cc.

3.6.3.2 `FunctionProxy * rootJS::FunctionProxy::clone ()`

Makes a clone of the current [FunctionProxy](#)

Returns

a pointer to the clone

Definition at line 67 of file FunctionProxy.cc.

3.6.3.3 `CallFunc_t * rootJS::FunctionProxy::getCallFunc (const TClassRef & klass, TFunction * method) [static]`

Get a pointer to a CallFunc object, which encapsulates the ROOT function in memory.

Parameters

<i>method</i>	the callable whose CallFunc object shall be returned
---------------	--

Returns

a pointer to the CallFunc object provided by cling

Definition at line 76 of file FunctionProxy.cc.

3.6.3.4 `std::vector< TFunction * > rootJS::FunctionProxy::getMethodsFromName (TClassRef scope, std::string name) [static]`

Get all methods of the specified class with the specified name.

Parameters

<i>scope</i>	reference to the class which is checked for methods with the specified name
<i>name</i>	name of the overloaded methods which shall be returned

Returns

a vector of methods that match the specified name

Definition at line 43 of file FunctionProxy.cc.

3.6.3.5 `virtual bool rootJS::FunctionProxy::isConst () [inline],[virtual]`

Check if this proxy encapsulates a constant.

Returns

true if this ProxyObject encapsulates a constant

Implements [rootJS::Proxy](#).

Definition at line 110 of file FunctionProxy.h.

3.6.3.6 `virtual bool rootJS::FunctionProxy::isGlobal () [inline],[virtual]`

Check if this proxy encapsulates a global.

Returns

true if this ProxyObject encapsulates a global

Implements [rootJS::Proxy](#).

Definition at line 120 of file FunctionProxy.h.

3.6.3.7 `virtual bool rootJS::FunctionProxy::isStatic () [inline],[virtual]`

Check if this proxy encapsulates a static.

Returns

true if this ProxyObject encapsulates a static

Implements [rootJS::Proxy](#).

Definition at line 130 of file FunctionProxy.h.

3.6.3.8 `virtual bool rootJS::FunctionProxy::isTemplate () [inline],[virtual]`

Check if this proxy encapsulates a template.

Returns

true if this ProxyObject encapsulates a template

Implements [rootJS::Proxy](#).

Definition at line 140 of file FunctionProxy.h.

3.6.3.9 void rootJS::FunctionProxy::setSelfAddress (void * *addr*) [inline]

TODO: verify

Check whether the arguments encapsulated in the FunctionCallbackInfo are valid arguments to the function. The parameters are then wrapped in proxies so they can be<char> v; used by the call method.

Parameters

<i>args</i>	contains the arguments which shall be validated
-------------	---

Returns

an array of proxies for the validated arguments std::vector<ObjectProxy*> validateArgs(v8::Function-CallbackInfo<v8::Value> args);

Determines which overloaded function is wanted

Parameters

<i>info</i>	The info of the overloaded function
-------------	-------------------------------------

Returns

true if the overloaded function is found bool determineOverload(const v8::Local<v8::Array>& info); Sets the address of the function

Parameters

<i>addr</i>	The address the function will be set to
-------------	---

Definition at line 100 of file FunctionProxy.h.

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

- src/FunctionProxy.h
- src/FunctionProxy.cc

3.7 rootJS::FunctionProxyFactory Class Reference

Static Public Member Functions

- static [FunctionProxy](#) * [createFunctionProxy](#) (TFunction *function, TClass *scope)
- static TFunction * [determineFunction](#) (std::string const &name, TClass *scope, const v8::Local< v8::Array > args)
- static [FunctionProxy](#) * [fromArgs](#) (std::string const &name, TClass *scope, const v8::Local< v8::Array > args)

3.7.1 Detailed Description

Definition at line 23 of file FunctionProxyFactory.h.

3.7.2 Member Function Documentation

3.7.2.1 [FunctionProxy](#) * rootJS::FunctionProxyFactory::createFunctionProxy (TFunction * *function*, TClass * *scope*)
[static]

Create a new [FunctionProxy](#) of the given function

Parameters

<i>function</i>	the function to be proxied
<i>scope</i>	the type of the instance that will be created

Returns

the pointer to the newly created [FunctionProxy](#)

Definition at line 33 of file FunctionProxyFactory.cc.

3.7.2.2 `TFunction * rootJS::FunctionProxyFactory::determineFunction (std::string const & name, TClass * scope, const v8::Local< v8::Array > args) [static]`

Uses the parameters to determine which function is to be called up

Parameters

<i>name</i>	the name of the function
<i>scope</i>	the type of the instance that will be created
<i>args</i>	the arguments of the function

Returns

the pointer to the function which was determined

Definition at line 39 of file FunctionProxyFactory.cc.

3.7.2.3 `FunctionProxy * rootJS::FunctionProxyFactory::fromArgs (std::string const & name, TClass * scope, const v8::Local< v8::Array > args) [static]`

Determines which overloaded function should be called up

Parameters

<i>name</i>	the name of the function
<i>scope</i>	the type of the instance that will be created
<i>args</i>	the arguments of the function

Returns

the pointer to the function proxy of the overloaded function

Definition at line 93 of file FunctionProxyFactory.cc.

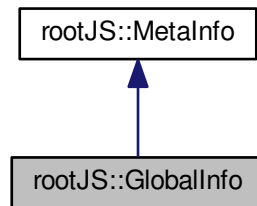
The documentation for this class was generated from the following files:

- src/FunctionProxyFactory.h
- src/FunctionProxyFactory.cc

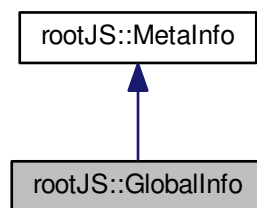
3.8 rootJS::GlobalInfo Class Reference

```
#include <GlobalInfo.h>
```

Inheritance diagram for rootJS::GlobalInfo:



Collaboration diagram for rootJS::GlobalInfo:



Public Member Functions

- **GlobalInfo** (const TGlobal &type)
- virtual Long_t **GetOffset** ()
- virtual bool **isGlobal** ()
- virtual bool **isConst** ()
- virtual bool **isStatic** ()
- virtual const char * **getTypeName** ()
- virtual const char * **getName** ()
- virtual **GlobalInfo** * **clone** ()

Additional Inherited Members

3.8.1 Detailed Description

This class contains the info for a TGlobal

Definition at line 14 of file GlobalInfo.h.

3.8.2 Member Function Documentation

3.8.2.1 `GlobalInfo * rootJS::GlobalInfo::clone ()` [virtual]

Makes a clone of the [MetalInfo](#) instance.

Returns

Pointer to the cloned [MetalInfo](#) instance

Implements [rootJS::MetalInfo](#).

Definition at line 44 of file GlobalInfo.cc.

3.8.2.2 `const char * rootJS::GlobalInfo::getName ()` [virtual]

Returns the name of the TObject.

Returns

name of the TObject

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 39 of file GlobalInfo.cc.

3.8.2.3 `const char * rootJS::GlobalInfo::getTypeName ()` [virtual]

Returns the typename of the TObject.

Returns

Typename of the TObject

Implements [rootJS::MetalInfo](#).

Definition at line 34 of file GlobalInfo.cc.

3.8.2.4 `bool rootJS::GlobalInfo::isConst ()` [virtual]

Checks if the TObject is a constant.

Returns

If the TObject is a constant

Implements [rootJS::MetalInfo](#).

Definition at line 24 of file GlobalInfo.cc.

3.8.2.5 `bool rootJS::GlobalInfo::isGlobal ()` [virtual]

Checks if the TObject is global.

Returns

If the TObject is global

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 19 of file GlobalInfo.cc.

3.8.2.6 bool rootJS::GlobalInfo::isStatic () [virtual]

Checks if the TObject is static.

Returns

If the TObject is static

Implements [rootJS::MetaInfo](#).

Definition at line 29 of file GlobalInfo.cc.

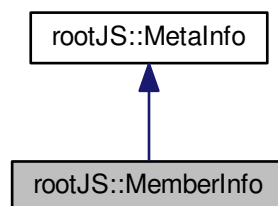
The documentation for this class was generated from the following files:

- src/GlobalInfo.h
- src/GlobalInfo.cc

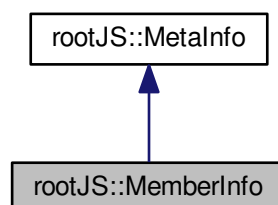
3.9 rootJS::MemberInfo Class Reference

```
#include <MemberInfo.h>
```

Inheritance diagram for rootJS::MemberInfo:



Collaboration diagram for rootJS::MemberInfo:



Public Member Functions

- **MemberInfo** (const TDataMember &, void *[baseAddress](#))

- virtual Long_t [getOffset](#) ()
- virtual bool [isGlobal](#) ()
- virtual bool [isConst](#) ()
- virtual bool [isStatic](#) ()
- virtual const char * [getTypeName](#) ()
- virtual const char * [getName](#) ()
- virtual [MemberInfo](#) * [clone](#) ()

Additional Inherited Members

3.9.1 Detailed Description

This class contains the info for a TDataMember

Definition at line 14 of file MemberInfo.h.

3.9.2 Member Function Documentation

3.9.2.1 [MemberInfo](#) * [rootJS::MemberInfo::clone](#) () [virtual]

Makes a clone of the [MetaInfo](#) instance.

Returns

Pointer to the cloned [MetaInfo](#) instance

Implements [rootJS::MetaInfo](#).

Definition at line 42 of file MemberInfo.cc.

3.9.2.2 const char * [rootJS::MemberInfo::getName](#) () [virtual]

Returns the name of the TObject.

Returns

name of the TObject

Reimplemented from [rootJS::MetaInfo](#).

Definition at line 37 of file MemberInfo.cc.

3.9.2.3 Long_t [rootJS::MemberInfo::getOffset](#) () [virtual]

Get the offset. This calls up the TDataMember::GetOffset() function.

Returns

The offset

Reimplemented from [rootJS::MetaInfo](#).

Definition at line 12 of file MemberInfo.cc.

3.9.2.4 `const char * rootJS::MemberInfo::getTypeName () [virtual]`

Returns the typename of the TObject.

Returns

Typename of the TObject

Implements [rootJS::MetalInfo](#).

Definition at line 32 of file MemberInfo.cc.

3.9.2.5 `bool rootJS::MemberInfo::isConst () [virtual]`

Checks if the TObject is a constant.

Returns

If the TObject is a constant

Implements [rootJS::MetalInfo](#).

Definition at line 22 of file MemberInfo.cc.

3.9.2.6 `bool rootJS::MemberInfo::isGlobal () [virtual]`

Checks if the TObject is global.

Returns

If the TObject is global

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 17 of file MemberInfo.cc.

3.9.2.7 `bool rootJS::MemberInfo::isStatic () [virtual]`

Checks if the TObject is static.

Returns

If the TObject is static

Implements [rootJS::MetalInfo](#).

Definition at line 27 of file MemberInfo.cc.

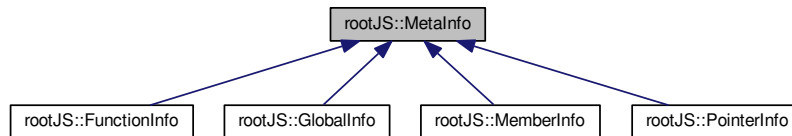
The documentation for this class was generated from the following files:

- src/MemberInfo.h
- src/MemberInfo.cc

3.10 rootJS::MetalInfo Class Reference

```
#include <MetalInfo.h>
```

Inheritance diagram for rootJS::MetaInfo:



Public Member Functions

- [MetaInfo](#) (void *[baseAddress](#))
- virtual bool [isGlobal](#) ()
- virtual Long_t [getOffset](#) ()
- virtual bool [isConst](#) ()=0
- virtual bool [isStatic](#) ()=0
- virtual const char * [getTypeName](#) ()=0
- virtual const char * [getName](#) ()
- virtual void * [getBaseAddress](#) ()
- virtual void * [getAddress](#) ()
- virtual [MetaInfo](#) * [clone](#) ()=0

Protected Attributes

- void * [baseAddress](#)

3.10.1 Detailed Description

This class encapsulates the differences in behaviour between TMember and TGlobal
Definition at line 13 of file MetaInfo.h.

3.10.2 Constructor & Destructor Documentation

3.10.2.1 rootJS::MetaInfo::MetaInfo (void * *baseAddress*) [inline]

Creates [MetaInfo](#) with a specific TObject and its base address

Definition at line 24 of file MetaInfo.h.

3.10.3 Member Function Documentation

3.10.3.1 virtual [MetaInfo](#)* rootJS::MetaInfo::clone () [pure virtual]

Makes a clone of the [MetaInfo](#) instance.

Returns

Pointer to the cloned [MetaInfo](#) instance

Implemented in [rootJS::PointerInfo](#), [rootJS::FunctionInfo](#), [rootJS::GlobalInfo](#), and [rootJS::MemberInfo](#).

3.10.3.2 virtual void* rootJS::MetaInfo::getAddress () [inline],[virtual]

Returns the address of the TObject.

Returns

Address of the TObject

Reimplemented in [rootJS::PointerInfo](#).

Definition at line 91 of file MetaInfo.h.

3.10.3.3 virtual void* rootJS::MetaInfo::getBaseAddress () [inline],[virtual]

Returns the base address of the TObject.

Returns

Base address of the TObject

Definition at line 82 of file MetaInfo.h.

3.10.3.4 virtual const char* rootJS::MetaInfo::getName () [inline],[virtual]

Returns the name of the TObject.

Returns

name of the TObject

Reimplemented in [rootJS::FunctionInfo](#), [rootJS::GlobalInfo](#), and [rootJS::MemberInfo](#).

Definition at line 73 of file MetaInfo.h.

3.10.3.5 virtual Long_t rootJS::MetaInfo::getOffset () [inline],[virtual]

Get the offset. This calls up the TDataMember::GetOffset() function.

Returns

The offset

Reimplemented in [rootJS::FunctionInfo](#), and [rootJS::MemberInfo](#).

Definition at line 46 of file MetaInfo.h.

3.10.3.6 virtual const char* rootJS::MetaInfo::getTypeName () [pure virtual]

Returns the typename of the TObject.

Returns

Typename of the TObject

Implemented in [rootJS::PointerInfo](#), [rootJS::FunctionInfo](#), [rootJS::GlobalInfo](#), and [rootJS::MemberInfo](#).

3.10.3.7 `virtual bool rootJS::MetaInfo::isConst () [pure virtual]`

Checks if the TObject is a constant.

Returns

If the TObject is a constant

Implemented in [rootJS::PointerInfo](#), [rootJS::FunctionInfo](#), [rootJS::GlobalInfo](#), and [rootJS::MemberInfo](#).

3.10.3.8 `virtual bool rootJS::MetaInfo::isGlobal () [inline],[virtual]`

Checks if the TObject is global.

Returns

If the TObject is global

Reimplemented in [rootJS::FunctionInfo](#), [rootJS::GlobalInfo](#), [rootJS::MemberInfo](#), and [rootJS::PointerInfo](#).

Definition at line 36 of file MetaInfo.h.

3.10.3.9 `virtual bool rootJS::MetaInfo::isStatic () [pure virtual]`

Checks if the TObject is static.

Returns

If the TObject is static

Implemented in [rootJS::PointerInfo](#), [rootJS::FunctionInfo](#), [rootJS::GlobalInfo](#), and [rootJS::MemberInfo](#).

3.10.4 Member Data Documentation

3.10.4.1 `void* rootJS::MetaInfo::baseAddress [protected]`

The base address of the specific TObject

Definition at line 19 of file MetaInfo.h.

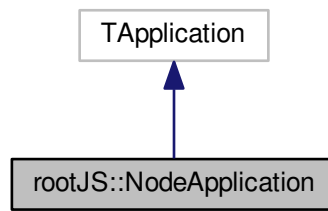
The documentation for this class was generated from the following file:

- [src/MetaInfo.h](#)

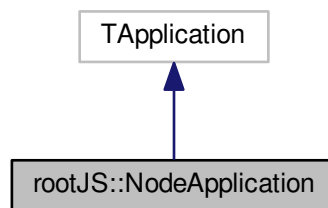
3.11 rootJS::NodeApplication Class Reference

```
#include <NodeApplication.h>
```

Inheritance diagram for rootJS::NodeApplication:



Collaboration diagram for rootJS::NodeApplication:



Public Member Functions

- [NodeApplication](#) (const char *acn, Int_t *argc, char **argv)
- virtual [~NodeApplication](#) ()

Static Public Member Functions

- static Bool_t [CreateNodeApplication](#) ()
- static Bool_t [InitROOTGlobals](#) ()

3.11.1 Detailed Description

[NodeApplication](#) is used to handle ROOT GUIs

Definition at line 10 of file `NodeApplication.h`.

3.11.2 Constructor & Destructor Documentation

3.11.2.1 rootJS::NodeApplication::NodeApplication (const char * acn, Int_t * argc, char ** argv)

Constructor for [NodeApplication](#) Accepts commandline arguments

Parameters

<i>acn</i>	Application name
<i>argc</i>	number of parameters
<i>argv</i>	actual parameters

Definition at line 12 of file NodeApplication.cc.

3.11.2.2 `virtual rootJS::NodeApplication::~~NodeApplication () [inline],[virtual]`

Destructor for [NodeApplication](#)

Definition at line 26 of file NodeApplication.h.

3.11.3 Member Function Documentation

3.11.3.1 `Bool_t rootJS::NodeApplication::CreateNodeApplication () [static]`

Instamciates a new NdoeApplication and puts it to the right place (gApplicaition)

Definition at line 25 of file NodeApplication.cc.

3.11.3.2 `Bool_t rootJS::NodeApplication::InitROOTGlobals () [static]`

This method should be used to initialize everything root needs to function prperly

Definition at line 42 of file NodeApplication.cc.

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

- src/NodeApplication.h
- src/NodeApplication.cc

3.12 rootJS::NodeHandler Class Reference

```
#include <NodeHandler.h>
```

Public Member Functions

- `v8::Local< v8::Object > getExports (void)`

Static Public Member Functions

- `static void initialize (v8::Local< v8::Object >, v8::Local< v8::Object >)`

3.12.1 Detailed Description

The [NodeHandler](#) is the main entry point when you require rootJS

Definition at line 16 of file NodeHandler.h.

3.12.2 Member Function Documentation

3.12.2.1 `void rootJS::NodeHandler::initialize (v8::Local< v8::Object > exports, v8::Local< v8::Object > module)`
[static]

The method which starts rootJS.

Definition at line 23 of file NodeHandler.cc.

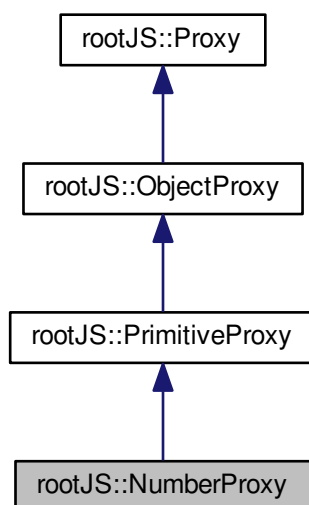
The documentation for this class was generated from the following files:

- src/NodeHandler.h
- src/NodeHandler.cc

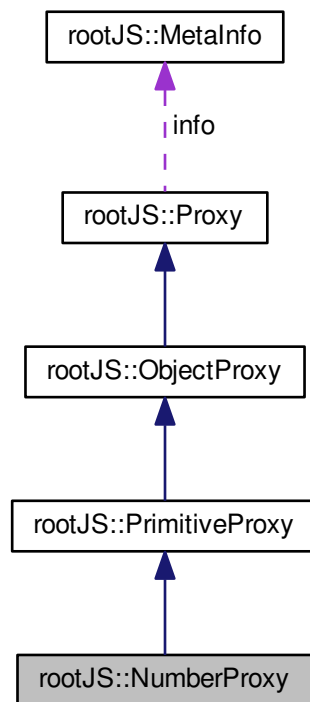
3.13 rootJS::NumberProxy Class Reference

```
#include <NumberProxy.h>
```

Inheritance diagram for rootJS::NumberProxy:



Collaboration diagram for rootJS::NumberProxy:



Public Member Functions

- [NumberProxy](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- virtual v8::Local< v8::Value > [get](#) ()
- virtual void [setValue](#) (v8::Local< v8::Value > value)

Static Public Member Functions

- static bool [isNumber](#) (std::string type)
- static [ObjectProxy](#) * [intConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [uintConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [shortConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [ushortConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [floatConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [doubleConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [ldoubleConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [longConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [ulongConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [llongConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [ullongConstruct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [_int64Construct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [u_int64Construct](#) ([MetaInfo](#) &[info](#), TClass *[scope](#))

Additional Inherited Members

3.13.1 Detailed Description

The [NumberProxy](#) is the proxy between C++ numbers and JavaScript number. The [NumberProxy](#) uses a C++ macro to map all C++ numbers to JavaScript numbers, and all number are casted to doubles, as doubles are the number type supported by JavaScript.

Definition at line 29 of file NumberProxy.h.

3.13.2 Constructor & Destructor Documentation

3.13.2.1 rootJS::NumberProxy::NumberProxy (*MetaInfo* & *info*, TClass * *scope*)

Create a new [NumberProxy](#).

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 15 of file NumberProxy.cc.

3.13.3 Member Function Documentation

3.13.3.1 ObjectProxy * rootJS::NumberProxy::_int64Construct (*MetaInfo* & *info*, TClass * *scope*) [static]

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 85 of file NumberProxy.cc.

3.13.3.2 ObjectProxy * rootJS::NumberProxy::doubleConstruct (*MetaInfo* & *info*, TClass * *scope*) [static]

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 76 of file NumberProxy.cc.

3.13.3.3 ObjectProxy * rootJS::NumberProxy::floatConstruct (*MetaInfo* & *info*, TClass * *scope*) [static]

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 88 of file NumberProxy.cc.

3.13.3.4 `v8::Local< v8::Value > rootJS::NumberProxy::get ()` [virtual]

Return the encapsulating javascript value.

Returns

the encapsulating javascript value

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 22 of file NumberProxy.cc.

3.13.3.5 `ObjectProxy * rootJS::NumberProxy::intConstruct (MetaInfo & info, TClass * scope)` [static]

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 70 of file NumberProxy.cc.

3.13.3.6 `bool rootJS::NumberProxy::isNumber (std::string type)` [static]

Check if the type is a number type.

Parameters

<i>type</i>	the type to be checked
-------------	------------------------

Returns

if the type is a number type

Definition at line 9 of file NumberProxy.cc.

3.13.3.7 `ObjectProxy * rootJS::NumberProxy::ldoubleConstruct (MetaInfo & info, TClass * scope)` [static]

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 77 of file NumberProxy.cc.

3.13.3.8 `ObjectProxy * rootJS::NumberProxy::llongConstruct (MetaInfo & info, TClass * scope)` [static]

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 82 of file NumberProxy.cc.

3.13.3.9 **ObjectProxy * rootJS::NumberProxy::longConstruct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 79 of file NumberProxy.cc.

3.13.3.10 **void rootJS::NumberProxy::setValue (v8::Local< v8::Value > value) [virtual]**

Setter for v8 values, writes new data to memory

Parameters

<i>value</i>	the value set via node, to be stored at the memory address
--------------	--

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 91 of file NumberProxy.cc.

3.13.3.11 **ObjectProxy * rootJS::NumberProxy::shortConstruct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 73 of file NumberProxy.cc.

3.13.3.12 **ObjectProxy * rootJS::NumberProxy::u_int64Construct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 86 of file NumberProxy.cc.

3.13.3.13 **ObjectProxy * rootJS::NumberProxy::uintConstruct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 71 of file NumberProxy.cc.

3.13.3.14 **ObjectProxy * rootJS::NumberProxy::ulongConstruct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 83 of file NumberProxy.cc.

3.13.3.15 **ObjectProxy * rootJS::NumberProxy::ulongConstruct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 80 of file NumberProxy.cc.

3.13.3.16 **ObjectProxy * rootJS::NumberProxy::ushortConstruct (MetaInfo & info, TClass * scope) [static]**

This calls the constructor. We cannot create pointers to constructors, but need to map the constructors in an Factory. This is a macro to declare the constructors for the various number types.

Parameters

<i>type</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 74 of file NumberProxy.cc.

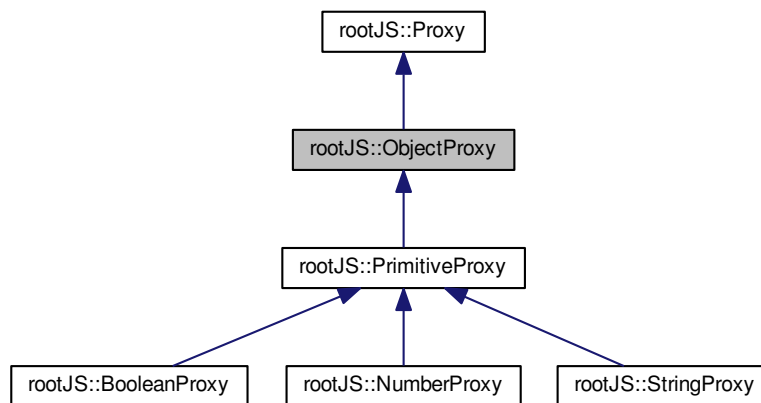
The documentation for this class was generated from the following files:

- src/NumberProxy.h
- src/NumberProxy.cc

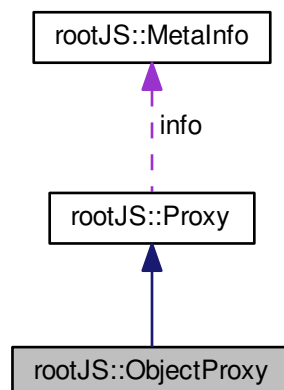
3.14 rootJS::ObjectProxy Class Reference

```
#include <ObjectProxy.h>
```

Inheritance diagram for rootJS::ObjectProxy:



Collaboration diagram for rootJS::ObjectProxy:



Public Member Functions

- `ObjectProxy (MetaInfo &info, TClass *scope)`
- `const char * getTypeName ()`
- `Long_t getOffset ()`
- `virtual void set (ObjectProxy &value)`
- `virtual v8::Local< v8::Value > get ()`
- `virtual void setProxy (v8::Local< v8::Object > proxy)`
- `virtual v8::Local< v8::Object > getProxy ()`
- `virtual void setValue (v8::Local< v8::Value > value)`
- `virtual bool isPrimitive ()`
- `virtual bool isTemplate ()`

- virtual bool [isGlobal](#) ()
- virtual bool [isConst](#) ()
- virtual bool [isStatic](#) ()
- void **registerMallocedSpace** (void *)
- v8::Persistent< v8::Object > & **getWeakPeristent** ()

Protected Attributes

- v8::Persistent< v8::Object > [proxy](#)

Additional Inherited Members

3.14.1 Detailed Description

The [ObjectProxy](#) class is used to represent ROOT objects. It differentiates between primitive and non-primitive object types.

Definition at line 24 of file [ObjectProxy.h](#).

3.14.2 Constructor & Destructor Documentation

3.14.2.1 [rootJS::ObjectProxy::ObjectProxy](#) ([MetalInfo](#) & *info*, [TClass](#) * *scope*)

Create a new [ObjectProxy](#) of a TObject.

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 11 of file [ObjectProxy.cc](#).

3.14.3 Member Function Documentation

3.14.3.1 [v8::Local< v8::Value > rootJS::ObjectProxy::get](#) () [[virtual](#)]

Return the encapsulating javascript value.

Returns

the encapsulating javascript value

Reimplemented in [rootJS::NumberProxy](#), [rootJS::StringProxy](#), and [rootJS::BooleanProxy](#).

Definition at line 49 of file [ObjectProxy.cc](#).

3.14.3.2 [Long_t rootJS::ObjectProxy::getOffset](#) ()

Get the offset

Returns

the offset

Definition at line 40 of file [ObjectProxy.cc](#).

3.14.3.3 `v8::Local< v8::Object > rootJS::ObjectProxy::getProxy () [virtual]`

Return the encapsulating javascript object.

Returns

the encapsulating javascript object

Definition at line 58 of file ObjectProxy.cc.

3.14.3.4 `const char * rootJS::ObjectProxy::getTypeName ()`

Return the name of the type

Returns

the name of the type

Definition at line 36 of file ObjectProxy.cc.

3.14.3.5 `bool rootJS::ObjectProxy::isConst () [virtual]`

Check if this proxy encapsulates a constant.

Returns

true if this ProxyObject encapsulates a constant

Implements [rootJS::Proxy](#).

Definition at line 74 of file ObjectProxy.cc.

3.14.3.6 `bool rootJS::ObjectProxy::isGlobal () [virtual]`

Check if this proxy encapsulates a global.

Returns

true if this ProxyObject encapsulates a global

Implements [rootJS::Proxy](#).

Definition at line 70 of file ObjectProxy.cc.

3.14.3.7 `bool rootJS::ObjectProxy::isPrimitive () [virtual]`

Check if this proxy encapsulates a primitive type.

Returns

true if this ProxyObject encapsulates a primitive data type

Reimplemented in [rootJS::PrimitiveProxy](#).

Definition at line 62 of file ObjectProxy.cc.

3.14.3.8 `bool rootJS::ObjectProxy::isStatic () [virtual]`

Check if this proxy encapsulates a static.

Returns

true if this ProxyObject encapsulates a static

Implements [rootJS::Proxy](#).

Definition at line 78 of file ObjectProxy.cc.

3.14.3.9 `bool rootJS::ObjectProxy::isTemplate () [virtual]`

Check if this proxy encapsulates a template.

Returns

true if this ProxyObject encapsulates a template

Implements [rootJS::Proxy](#).

Definition at line 66 of file ObjectProxy.cc.

3.14.3.10 `void rootJS::ObjectProxy::set (ObjectProxy & value) [virtual]`

Assign the specified value to this [ObjectProxy](#).

Parameters

<i>value</i>	the value to assign to this ObjectProxy
--------------	---

Definition at line 44 of file ObjectProxy.cc.

3.14.3.11 `void rootJS::ObjectProxy::setProxy (v8::Local< v8::Object > proxy) [virtual]`

Set the encapsulating javascript object.

Parameters

<i>proxy</i>	the encapsulating javascript object
--------------	-------------------------------------

Definition at line 54 of file ObjectProxy.cc.

3.14.4 Member Data Documentation

3.14.4.1 `v8::Persistent<v8::Object> rootJS::ObjectProxy::proxy [protected]`

the exposed javascript object

Definition at line 123 of file ObjectProxy.h.

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

- src/ObjectProxy.h
- src/ObjectProxy.cc

3.15 rootJS::ObjectProxyFactory Class Reference

Static Public Member Functions

- static [ObjectProxy](#) * **createObjectProxy** (TGlobal &global)
- static [ObjectProxy](#) * **createObjectProxy** ([MetaInfo](#) &info, TClass *scope) throw (std::invalid_argument)
- static [ObjectProxy](#) * **createObjectProxy** (void *address, TClass *type, v8::Local< v8::Object > proxy)
- static [ObjectProxy](#) * **createPrimitiveProxy** ([MetaInfo](#) &info, TClass *clazz)
- static void **initializeProxyMap** (void)

3.15.1 Detailed Description

Definition at line 22 of file ObjectProxyFactory.h.

3.15.2 Member Function Documentation

3.15.2.1 [ObjectProxy](#) * rootJS::ObjectProxyFactory::createObjectProxy (void * *address*, TClass * *type*, v8::Local< v8::Object > *proxy*) [static]

Encapsulate the data at the specified address into the specified JavaScript object.

Parameters

<i>address</i>	the address of the data which should be encapsulated
<i>type</i>	the type of the data which should be encapsulated
<i>proxy</i>	the JavaScript object used for encapsulation

Returns

a new [ObjectProxy](#) holding the specified JavaScript Object for exposure

Definition at line 137 of file ObjectProxyFactory.cc.

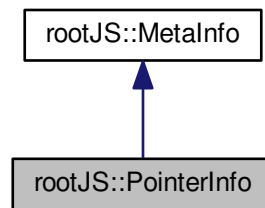
The documentation for this class was generated from the following files:

- src/ObjectProxyFactory.h
- src/ObjectProxyFactory.cc

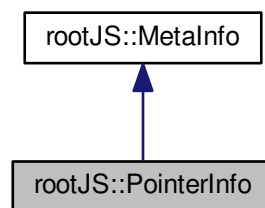
3.16 rootJS::PointerInfo Class Reference

```
#include <PointerInfo.h>
```

Inheritance diagram for rootJS::PointerInfo:



Collaboration diagram for rootJS::PointerInfo:



Public Member Functions

- **PointerInfo** (void *baseAddr, const char *typeName, int ptrDepth=2)
- virtual bool [isGlobal](#) ()
- virtual Long_t **GetOffset** ()
- virtual bool [isConst](#) ()
- virtual bool [isStatic](#) ()
- virtual const char * [getTypeName](#) ()
- virtual [PointerInfo](#) * [clone](#) ()
- virtual void * [getAddress](#) ()

Protected Attributes

- const char * [typeName](#)
- int **ptrDepth**
- void ** **ptr**
- void *** **ptrptr**

3.16.1 Detailed Description

This class contains the info for a pointer

Definition at line 12 of file PointerInfo.h.

3.16.2 Member Function Documentation

3.16.2.1 virtual PointerInfo* rootJS::PointerInfo::clone () [inline],[virtual]

Makes a clone of the [MetalInfo](#) instance.

Returns

Pointer to the cloned [MetalInfo](#) instance

Implements [rootJS::MetalInfo](#).

Definition at line 45 of file PointerInfo.h.

3.16.2.2 void * rootJS::PointerInfo::getAddress () [virtual]

Returns the address of the TObject.

Returns

Address of the TObject

Reimplemented from [rootJS::MetalInfo](#).

Definition at line 8 of file PointerInfo.cc.

3.16.2.3 virtual const char* rootJS::PointerInfo::getTypeName () [inline],[virtual]

Returns the typename of the TObject.

Returns

Typename of the TObject

Implements [rootJS::MetalInfo](#).

Definition at line 40 of file PointerInfo.h.

3.16.2.4 virtual bool rootJS::PointerInfo::isConst () [inline],[virtual]

Checks if the TObject is a constant.

Returns

If the TObject is a constant

Implements [rootJS::MetalInfo](#).

Definition at line 30 of file PointerInfo.h.

3.16.2.5 `virtual bool rootJS::PointerInfo::isGlobal () [inline],[virtual]`

Checks if the TObject is global.

Returns

If the TObject is global

Reimplemented from [rootJS::MetaInfo](#).

Definition at line 20 of file PointerInfo.h.

3.16.2.6 `virtual bool rootJS::PointerInfo::isStatic () [inline],[virtual]`

Checks if the TObject is static.

Returns

If the TObject is static

Implements [rootJS::MetaInfo](#).

Definition at line 35 of file PointerInfo.h.

3.16.3 Member Data Documentation

3.16.3.1 `const char* rootJS::PointerInfo::typeName [protected]`

Type of the pointer

Definition at line 56 of file PointerInfo.h.

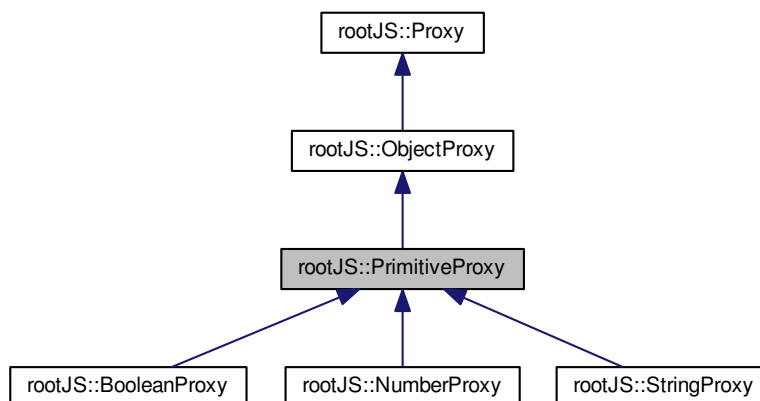
The documentation for this class was generated from the following files:

- src/PointerInfo.h
- src/PointerInfo.cc

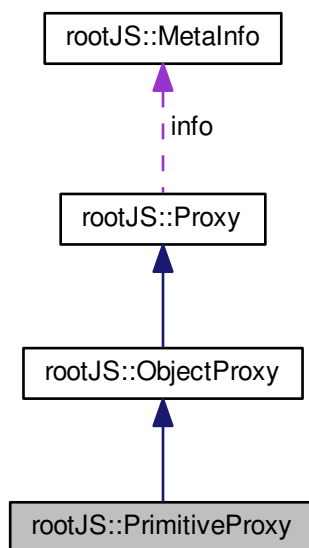
3.17 rootJS::PrimitiveProxy Class Reference

```
#include <PrimitiveProxy.h>
```

Inheritance diagram for rootJS::PrimitiveProxy:



Collaboration diagram for rootJS::PrimitiveProxy:



Public Member Functions

- [PrimitiveProxy](#) ([MetaInfo](#) &type, TClass *scope)
- virtual bool [isPrimitive](#) ()

Additional Inherited Members

3.17.1 Detailed Description

Maps a C++/ROOT primitive to a JavaScript primitive

Definition at line 11 of file PrimitiveProxy.h.

3.17.2 Constructor & Destructor Documentation

3.17.2.1 `rootJS::PrimitiveProxy::PrimitiveProxy (MetaInfo & type, TClass * scope)`

Create a new [PrimitiveProxy](#).

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 5 of file PrimitiveProxy.cc.

3.17.3 Member Function Documentation

3.17.3.1 `bool rootJS::PrimitiveProxy::isPrimitive () [virtual]`

Check if this proxy encapsulates a primitive type.

Returns

true if this ProxyObject encapsulates a primitive data type

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 9 of file PrimitiveProxy.cc.

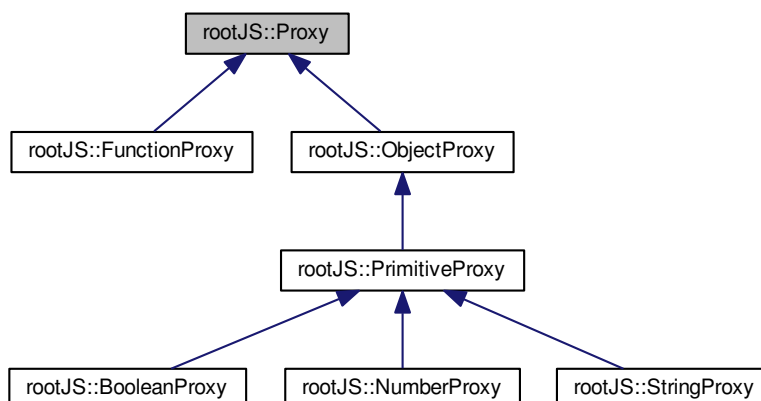
The documentation for this class was generated from the following files:

- `src/PrimitiveProxy.h`
- `src/PrimitiveProxy.cc`

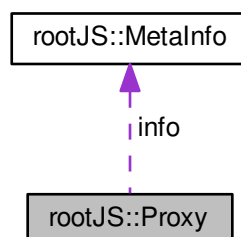
3.18 `rootJS::Proxy` Class Reference

```
#include <Proxy.h>
```


Inheritance diagram for rootJS::Proxy:



Collaboration diagram for rootJS::Proxy:



Public Member Functions

- virtual void [setAddress](#) (void *address)
- virtual void * [getAddress](#) ()
- TClass * [getScope](#) ()
- virtual [MetaInfo](#) * [getTypeInfo](#) ()
- virtual bool [isTemplate](#) ()=0
- virtual bool [isGlobal](#) ()=0
- virtual bool [isConst](#) ()=0
- virtual bool [isStatic](#) ()=0

Protected Member Functions

- **Proxy** ([MetaInfo](#) &info, TClass *scope)

Protected Attributes

- [MetaInfo](#) * [info](#)
- TClassRef [scope](#)

3.18.1 Detailed Description

The proxy super class from which both proxies inherit. The proxies act as intermediary between Node.js and ROOT.
Definition at line 17 of file Proxy.h.

3.18.2 Member Function Documentation

3.18.2.1 void * rootJS::Proxy::getAddress () [virtual]

get the address of the encapsulated object

Returns

the encapsulated object's address

Definition at line 19 of file Proxy.cc.

3.18.2.2 TClass * rootJS::Proxy::getScope ()

get meta information about the encapsulated object's scope

Returns

meta information about the scope

Definition at line 24 of file Proxy.cc.

3.18.2.3 MetaInfo * rootJS::Proxy::getTypeInfo () [virtual]

get meta information about the encapsulated object's type

Returns

meta information about the type

Definition at line 29 of file Proxy.cc.

3.18.2.4 virtual bool rootJS::Proxy::isConst () [pure virtual]

check if the encapsulated object is constant

Returns

if the encapsulated object is constant

Implemented in [rootJS::FunctionProxy](#), and [rootJS::ObjectProxy](#).

3.18.2.5 `virtual bool rootJS::Proxy::isGlobal ()` [pure virtual]

check if the encapsulated object is global

Returns

if the encapsulated object is global

Implemented in [rootJS::FunctionProxy](#), and [rootJS::ObjectProxy](#).

3.18.2.6 `virtual bool rootJS::Proxy::isStatic ()` [pure virtual]

check if the encapsulated object is static

Returns

if the encapsulated object is static

Implemented in [rootJS::FunctionProxy](#), and [rootJS::ObjectProxy](#).

3.18.2.7 `virtual bool rootJS::Proxy::isTemplate ()` [pure virtual]

check if the encapsulated object is a template

Returns

if the encapsulated object is a template

Implemented in [rootJS::FunctionProxy](#), and [rootJS::ObjectProxy](#).

3.18.2.8 `void rootJS::Proxy::setAddress (void * address)` [virtual]

set the address this proxy points to

Parameters

<i>address</i>	the new address
----------------	-----------------

Definition at line 14 of file Proxy.cc.

3.18.3 Member Data Documentation**3.18.3.1** `MetaInfo* rootJS::Proxy::info` [protected]

type meta information of encapsulated object

Definition at line 73 of file Proxy.h.

3.18.3.2 `TClassRef rootJS::Proxy::scope` [protected]

scope meta information of encapsulated object

Definition at line 74 of file Proxy.h.

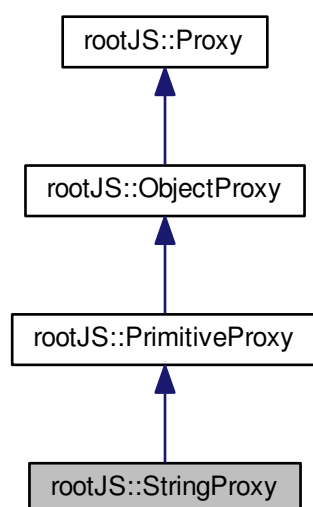
The documentation for this class was generated from the following files:

- src/Proxy.h
- src/Proxy.cc

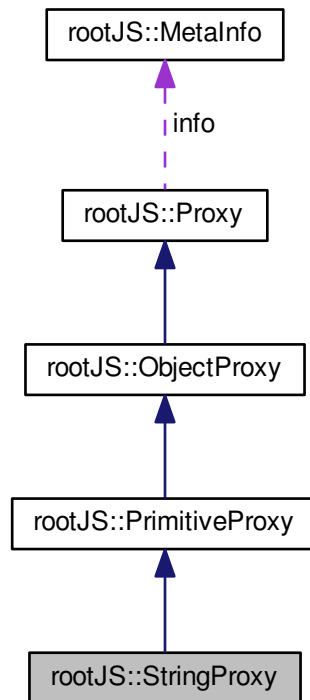
3.19 rootJS::StringProxy Class Reference

```
#include <StringProxy.h>
```

Inheritance diagram for rootJS::StringProxy:



Collaboration diagram for rootJS::StringProxy:



Public Member Functions

- [StringProxy](#) ([MetalInfo](#) &[info](#), TClass *[scope](#))
- virtual v8::Local< v8::Value > [get](#) ()
- virtual void [setValue](#) (v8::Local< v8::Value > value)

Static Public Member Functions

- static bool [isString](#) (std::string type)
- static [ObjectProxy](#) * [charConstruct](#) ([MetalInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [stringConstruct](#) ([MetalInfo](#) &[info](#), TClass *[scope](#))
- static [ObjectProxy](#) * [tStringConstruct](#) ([MetalInfo](#) &[info](#), TClass *[scope](#))

Additional Inherited Members

3.19.1 Detailed Description

Maps C++ strings and c-strings to JavaScript strings.

Definition at line 14 of file StringProxy.h.

3.19.2 Constructor & Destructor Documentation

3.19.2.1 `rootJS::StringProxy::StringProxy (MetaInfo & info, TClass * scope)`

Enum value representing the type Create a new [StringProxy](#).

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 8 of file StringProxy.cc.

3.19.3 Member Function Documentation

3.19.3.1 `ObjectProxy * rootJS::StringProxy::charConstruct (MetaInfo & info, TClass * scope) [static]`

Creates a [StringProxy](#) based on a const char*, nullterminated string

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 53 of file StringProxy.cc.

3.19.3.2 `v8::Local< v8::Value > rootJS::StringProxy::get () [virtual]`

Returns a v8 String Copies the c_String which is used to power the Object represented by the [MetaInfo](#) object

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 21 of file StringProxy.cc.

3.19.3.3 `bool rootJS::StringProxy::isString (std::string type) [static]`

Check if the type is a boolean type.

Parameters

<i>type</i>	the type to be checked
-------------	------------------------

Returns

if the type is a string type.

Definition at line 11 of file StringProxy.cc.

3.19.3.4 `void rootJS::StringProxy::setValue (v8::Local< v8::Value > value) [virtual]`

When the base is an immutable string (std::String, TString) this will set a new value

Parameters

<i>value</i>	The value to be set
--------------	---------------------

Reimplemented from [rootJS::ObjectProxy](#).

Definition at line 74 of file StringProxy.cc.

3.19.3.5 `ObjectProxy * rootJS::StringProxy::stringConstruct (MetaInfo & info, TClass * scope) [static]`

Creates a [StringProxy](#) based on a const std::string, nullterminated string

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 60 of file StringProxy.cc.

3.19.3.6 `ObjectProxy * rootJS::StringProxy::StringConstruct (MetalInfo & info, TClass * scope) [static]`

Creates a [StringProxy](#) based on a const TString, nullterminated string

Parameters

<i>info</i>	the type of the encapsulated object
<i>scope</i>	the scope of the encapsulated object

Definition at line 67 of file StringProxy.cc.

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

- src/StringProxy.h
- src/StringProxy.cc

3.20 `rootJS::TemplateFactory` Class Reference

Static Public Member Functions

- static `v8::Local< v8::Object > getInstance (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::Function > getConstructor (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::ObjectTemplate > createNamespaceTemplate (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::ObjectTemplate > createEnumTemplate (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::ObjectTemplate > createArrayTemplate (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::FunctionTemplate > createUnionTemplate (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::FunctionTemplate > createStructTemplate (TClass *clazz) throw (std::invalid_argument)`
- static `v8::Local< v8::FunctionTemplate > createClassTemplate (TClass *clazz) throw (std::invalid_argument)`

3.20.1 Detailed Description

Definition at line 16 of file TemplateFactory.h.

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

- src/TemplateFactory.h
- src/TemplateFactory.cc

3.21 `rootJS::Toolbox` Class Reference

```
#include <Toolbox.h>
```


Public Types

- enum [InternalFieldData](#) { [ObjectProxyPtr](#), [PropertyMapPtr](#) }

Static Public Member Functions

- static void [throwException](#) (const std::string &message)
- static void [logInfo](#) (const std::string &message)
- static void [logError](#) (const std::string &message)

Static Public Attributes

- static const int **INTERNAL_FIELD_COUNT** = 2

3.21.1 Detailed Description

Utility class for various purposes.

Definition at line 11 of file Toolbox.h.

3.21.2 Member Enumeration Documentation

3.21.2.1 enum rootJS::Toolbox::InternalFieldData

Enumerates the internal fields of v8::Objects.

Definition at line 19 of file Toolbox.h.

3.21.3 Member Function Documentation

3.21.3.1 void rootJS::Toolbox::logError (const std::string & *message*) [static]

Log the specified message at error level.

Parameters

<i>the</i>	message to log
------------	----------------

Definition at line 20 of file Toolbox.cc.

3.21.3.2 void rootJS::Toolbox::logInfo (const std::string & *message*) [static]

Log the specified message at info level.

Parameters

<i>the</i>	message to log
------------	----------------

Definition at line 14 of file Toolbox.cc.

3.21.3.3 void rootJS::Toolbox::throwException (const std::string & *message*) [static]

Throws a new v8 exception.

Parameters

<i>message</i>	the exception message
----------------	-----------------------

Definition at line 9 of file Toolbox.cc.

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

- src/Toolbox.h
- src/Toolbox.cc

3.22 rootJS::Types Class Reference

Static Public Member Functions

- static bool **isV8Boolean** (v8::Local< v8::Value > value)
- static bool **isV8Number** (v8::Local< v8::Value > value)
- static bool **isV8String** (v8::Local< v8::Value > value)
- static bool **isV8Primitive** (v8::Local< v8::Value > value)

3.22.1 Detailed Description

Definition at line 8 of file Types.h.

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

- src/Types.h
- src/Types.cc