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std::make_unique, std::make_unique_for_overwrite - cppreference.com

Parameters ... Return value std::unique_ptr of an instance of type T. Exceptions May throw std::bad_alloc or any exception thrown by the constructor of T. If an exception is thrown, this function has no effect. Possible Implementation ... Notes

std::make_unique in C++ 14 - GeeksforGeeks

std::make_unique is a utility function in C++ that was introduced in C++14. It is used to create a unique_ptr object, which is a smart pointer that manages the lifetime of dynamically allocated objects.

Advantages of using std::make_unique over new operator

The difference is that std::make_unique returns an object of type std::unique_ptr and new returns a pointer to the created object. For memory allocation failures, they will both throw.

std::make_unique - cppreference.com - University of Helsinki

Constructs an object of type T and wraps it in a std::unique_ptr. 1) Constructs a non-array type T. The arguments args are passed to the constructor of T. The function does not participate in the overload resolution if T is an array type. The function is equivalent to: unique_ptr (new T (std::forward(args)...))

Demystifying C++'s std::make_unique - TheLinuxCode

In this comprehensive guide, we'll unpack exactly how make_unique works, why it's useful, and how you as a C++ developer can leverage it to boost your productivity and write safer code.

std::make_unique, std::make_unique_for_overwrite - cppreference.net

Notes Unlike std::make_shared (which has std::allocate_shared), std::make_unique does not have an allocator-aware counterpart. allocate_unique proposed in P0211 would be required to invent the deleter type D for the std:: unique_ptr < T,D > it returns which would contain an allocator object and invoke both destroy and deallocate in its ...

Mastering C++ Make_Unique: A Simple Guide for Beginners

`make_unique` is a utility function introduced in C++14 that simplifies the creation of `std::unique_ptr`. It allocates an object and wraps it in a `std::unique_ptr`, ensuring that the newly allocated memory is properly managed without requiring explicit deletion.

std::make_unique - cppreference.com - Tampereen korkeakouluyhteisö

A hypothetical allocate_unique would be required to invent the deleter type D for the unique_ptr it returns which would contain an allocator object and invoke both destroy and deallocate in its operator().

std::make_unique

std::make_unique is a utility function template introduced in C++14 that creates a std::unique_ptr to an object of a specified type. It provides a safer and more convenient way to create unique pointers compared to directly using the new operator.

Std::make_unique - C++ - W3cubDocs

1) Constructs a non-array type T. The arguments args are passed to the constructor of T. This overload participates in overload resolution only if T is not an array type. The function is equivalent to: unique_ptr(new T(std::forward(args)...)) 2) Constructs an array of the given dynamic size. The array elements are value-initialized.