# <<future angels>> Other games std future cppreference std future<T> get cppreference What is a Future and how do I.

123456789100041000100000001 Mar 12 2024 The class template std futureprovides a mechanism to access the result of asynchronous operations An asynchronous operation created via std async std packaged_task or std promise can provide a std futureobject to the creator of that asynchronous operation

The creator of the asynchronous operation can then use a variety of methods to query wait for or extract a value from the std Feb 22 2024 The get member function waits by calling wait until the shared state is ready then retrieves the value stored in the shared state if any

Right after calling this function valid is false. If valid is false before the call to this function the behavior is undefined Jul 21 2020 Afuturerepresents the result of an asynchronous operation and can have two states uncompleted or completed

Most likely as you aren t doing this just for fun you actually need the results of thatFuture<T> to progress in your application. You need to display the number from the database or the list of movies found Aug 27 2021 Checks if thefuturerefers to a shared state

This is the case only for futures that were not default constructed or moved from i.e. returned by std promise get_future std packaged_task get_future or std async until the first time get or share is called

The behavior is undefined if any member function other than the destructor the move assignment operator or valid is Mar 19 2025 Specifies state of afutureas returned by wait_for and wait_until functions of std futureand std shared_future

Constants Aug 2 2020 If thefutureis the result of a call to async that used lazy evaluation this function returns immediately without waiting. The behavior is undefined if valid is false before the call to this function or Clock does not meet the Clock requirements

The programs is ill formed if std chrono is_clock_v<Clock> is false

since C++20 Nov 27 2023 future constfuture = delete ~future future operator = constfuture = delete future operator = future noexcept shared_future<R> share noexcept retrieving the value * see description * get functions to check state bool valid const noexcept void wait const template<class Rep class Period> Mar 6 2020 impl<F>Futurefor Box<F> where F Unpin +Future+ ?Sized Boxed futures only implement theFuturetrait when thefutureinside the Box implements Unpin

Since your function doesn t guarantee that the returnedfutureimplements Unpin your return value will be considered to not implementFuture. You ll not able to await it because your type is basically not aFuture

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