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`future (const future & ) = delete; ~future (); future & operator =(const future & ) = delete; future & operator =(future & & ) noexcept; shared_future &lt;R&gt;; share () noexcept; // ...`

A future represents 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 ...

If the future is 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 ...

Checks if the future refers 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 ()`, ...

The promise is the "push" end of the promise-future communication channel: the operation that stores a value in the shared state synchronizes-with (as defined in ...

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 ...`

In summary: `std::future` is an object used in multithreaded programming to receive data or an exception from a different thread; it is one end of a single-use, one-way ...

The class template `std::future` provides a mechanism to access the result of asynchronous operations: An asynchronous operation (created via `std::async`, ...

Specifies state of a future as returned by `wait_for` and `wait_until` functions of `std::future` and `std::shared_future`. Constants

If the future is the result of a call to `std::async` that used lazy evaluation, this function returns immediately without waiting. This function may block for longer than ...

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