

```
template<typename F, send... Args>
safe thread (F&& f, Args&&... args)
    : thread (std::forward<F> (f), std::forward<Args> (args)...)
    static assert (send<F>);
```

```
template<typename T>
struct is send : std::bool constant<</pre>
       (! (std::is lvalue reference v<T>
             || std::is_pointer_v<std::remove_extent_t<T>>
            || is lambda v<T>))
         &&
           (std::is_move_constructible_v<T>
            || (is function pointer v<std::decay t<T>>
                && ! std::is member function pointer v<T>))>
{};
template<typename T>
concept send = is_send<T>::value;
```

```
static_assert(is send v<const int>);
static_assert(is send v<int>);
static_assert(is send v<int&&>);
static_assert(is send v<int>);
static_assert(! is send v<int&>);
static assert(! is send v<int*&>);
static_assert(! is send v<const int&>);
static assert(! is send v<const int*&>);
static_assert(!
                is send v<std::string&>);
static assert(! is send v<const std::string&>);
static assert(! is send v<std::string*&>);
               is send v<const std::string*&>);
static assert(!
```













## Send in C++: Moved between threads

```
template<typename F, send... Args>
safe_thread (F&& f, Args&&... args)
   : thread (std::forward<F> (f), std::forward<Args> (args)...)
{
    static_assert (send<F>);
}
```

```
static_assert(is_send_v<const int>);
static_assert(is_send_v<int>);
static_assert(is_send_v<int&&>);
static_assert(is_send_v<int>);

static_assert(! is_send_v<int*&>);
static_assert(! is_send_v<int*&>);
static_assert(! is_send_v<const int*&>);
static_assert(! is_send_v<const int*&>);
static_assert(! is_send_v<static_assert(! is_send_v<static_string&>);
static_assert(! is_send_v<static_string&>);
static_assert(! is_send_v<static_string&>);
static_assert(! is_send_v<static_string*&>);
static_assert(! is_send_v<static_string*&>);
static_assert(! is_send_v<const static_string*&>);
static_assert(! is_send_v<const static_string*&>);
```

## Is T send?

