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Thread: [class inheritance enable shared from this \(exception bad weak ptr\)](#)

zNinja - April 15, 2020, 3:21 pm

in my case each class should be able to inherit `shared_from_this` from base class called [bree object base](#)

Now I have a class which creates a thread in its constructor.

In thread function I call [shared_from_this\(\)](#)

Very rare happen that it throws exception. `std::bad_weak_ptr` .

Btw I use c++11 for this project.

https://en.cppreference.com/w/cpp/memory/enable_shared_from_this

Quote:It is permitted to call `shared_from_this` only on a previously shared object, i.e. on an object managed by `std::shared_ptr<T>`. Otherwise the behavior is undefined (until C++17)
`std::bad_weak_ptr` is thrown (by the `shared_ptr` constructor from a default-constructed `weak_this`) (since C++17).

I am sure there are some race condition here caused by `std::enable_shared_from_this`

I would like to know theory, what happen, why sometimes it throws and sometimes not?