Weak Pointers

std::weak_ptr is the last component of the smart pointers family. Its purpose is limited compared to the other smart pointers, and we will examine why in this lesson.

WE'LL COVER THE FOLLOWING ^

- Introduction
- Methods
- Further information

Introduction

To be honest, std::weak_ptr is not a classic smart pointer, since it supports no transparent access to the resource; it only borrows the resource from an std::shared_ptr.

Methods

The table provides an overview of the methods of std::weak_ptr.

| Name | Description |
|---------|---|
| expired | Checks if the resource was deleted. |
| lock | Creates a <pre>std::shared_ptr</pre> on the resource. |
| reset | Resets the resource. |
| swap | Swaps the resources. |
| | Deturns the value of the reference |

use_count

counter.

Methods of std::weak_ptr

There is one main reason for the existence and use of std::weak_ptr.
It breaks the cycle of std::shared_ptr. We will discuss these cyclic references in detail in the next lessons.

Further information

- std::weak_ptr
- cyclic references

Let's see an example of this topic in the next lesson.