Introduction

Have a look at what we'll be covering in this section.

In the chapter about Removed or Fixed Language Features, we focused only on the language side. But The Standard Library was also cleaned-up in C++17. This chapter shows the list of most [^mostdepr] of the removed or deprecated types and utilities.

> *[^mostdepr]:* If you want to find the list of all deprecated elements, you can check "Annex D Compatibility features" of the Standard, for example under this link: https://timsong-cpp.github.io/cppwp/n4659/depr

In this chapter, you'll learn:

- Why `auto_ptr` was removed and why you should stick with smart pointers
- Why `std::random_shuffle` algorithm was removed and what's a better alternative for it
- How to implement custom iterator and not derive from deprecated `std::iterator` type
- What are the other smaller elements that were deprecated or removed

Let's get started with auto_ptr.