Character Types

This lesson will explain how regex identifies the different types of text in C++.

The type of the text determines the character type of the regular expression, the type of search result and the type of action with the search result.

The table shows the four different combinations.

Text type	Regular expression type	Result type	Action type
const char*	std::regex	std::smatch	std::regex_sea rch
std::string	std::regex	std::smatch	std::regex_sea rch
const wchar_t*	std::wregex	std::wcmatch	<pre>std::wregex_se arch</pre>
std::wstring	std::wregex	std::wsmatch	std::wregex_se arch

Combinations of type of text, regular expression, search result and action

The program shown in the Search section of this chapter provides the four combinations in detail.