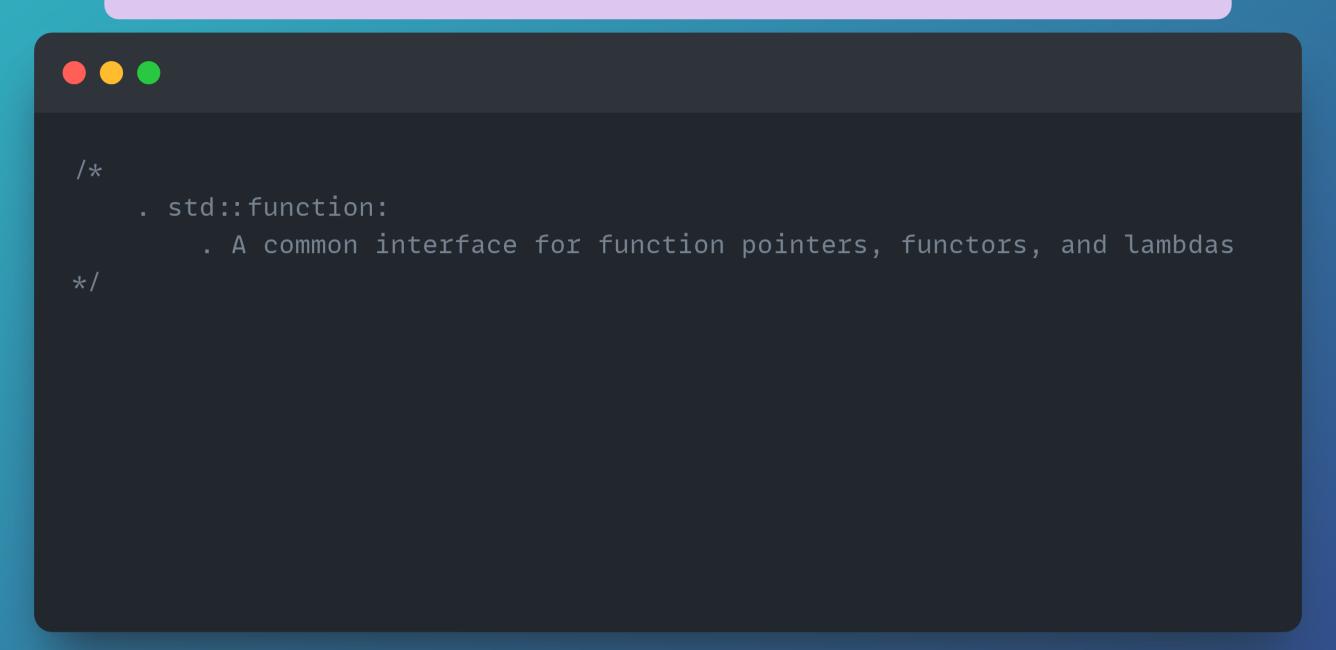
std::function



std::function



```
// Modifying a BoxContainer of strings
export BoxContainer<std::string> &modify(
    BoxContainer<std::string> &sentence, std::function<char(const char &)> modifier)
    for (size_t i{}; i < sentence.size(); ++i) {</pre>
        // Code below relies on get_item() to return a reference
        // Loop through the word modifying each character
        for (size_t j{}; j < sentence.get_item(i).size(); ++j) {</pre>
            sentence.get_item(i)[j] = modifier(sentence.get_item(i)[j]);
    return sentence;
export std::string get_best(
    const BoxContainer<std::string> &sentence,
    std::function<bool(const std::string &str1, const std::string &str2)> comparator)
    std::string best = sentence.get_item(0);
    for (size_t i{}; i < sentence.size(); ++i) {</pre>
        if (comparator(sentence.get_item(i), best)) {
            best = sentence.get_item(i);
    return best;
```

std::function



```
//Usage
std::function
// Function pointer

my_modifier = std_function::encrypt;
fmt::println("A encrypted becomes : {}", my_modifier('A'));// D

// Functor

std_function::Decrypt decrypt;
my_modifier = decrypt;
fmt::println("D decrypted becomes : {}", my_modifier('D'));

// Lambda function
my_modifier = [](const char &param) { return static_cast<char>(param + 3); };
fmt::println("A encrypted becomes : {}", my_modifier('A'));// D
```