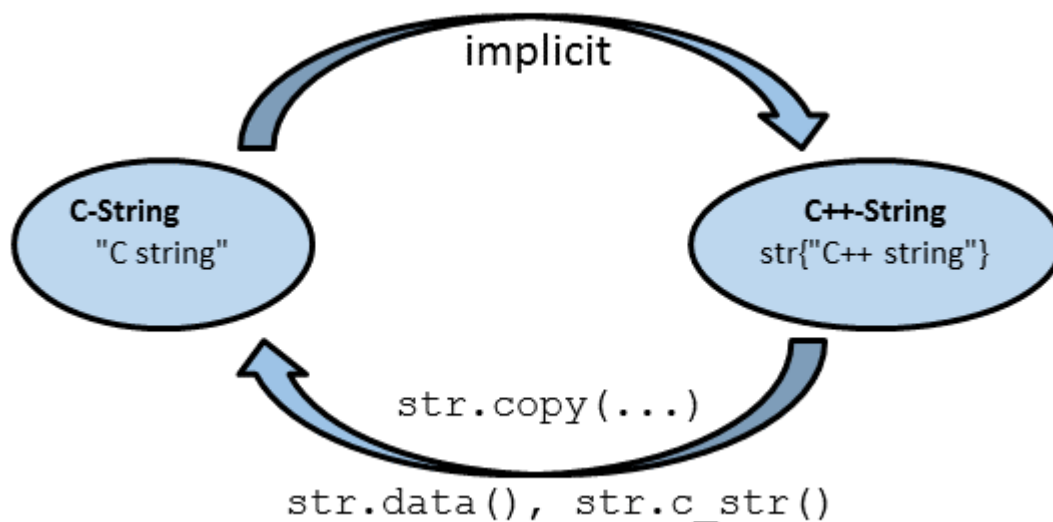


# Conversion Between C++ and C Strings

There are several ways to convert C++ strings to C strings. Let's go through them now.



While the conversion of a C string in a C++ string is done implicitly, you must explicitly request the conversion from a C++ string into a C string. `str.copy()` copies the content of a C++ string without the terminating `\0` character. `str.data()` and `str.c_str()` includes the terminating null character.

## ⚠ Be careful with `str.data()` and `str.c_str()`

The return value of the two methods `str.data()` and `std.c_str()` is invalid, if you modify the `str`.

```
#include <iostream>
#include <string>

int main(){

    std::cout << std::endl;

    std::string str{"C++-String"};
    std::cout << str << std::endl;
    str += " C-String";
    std::cout << str << std::endl;

    const char* cString= str.c_str();
```



```
char buffer[10];  
str.copy(buffer, 10);  
  
str+= "works";  
const char* cString2= cString;  
  
std::string str2(buffer, buffer+10);  
std::cout << str2 << std::endl;  
  
std::cout << std::endl;  
}
```

