

# Swap

Swapping is made simple in C++ using `std::swap`.

With the function `std::swap` defined in the header `<utility>`, you can easily swap two objects. The generic implementation in the C++ standard library internally uses the function `std::move`.

```
// swap.cpp
...
#include <utility>
...
template <typename T>
inline void swap(T& a, T& b){
    T tmp(std::move(a));
    a= std::move(b);
    b= std::move(tmp);
}
```



Move-semantic with `std::swap`

Now that we've learnt the C++ functions, let's move on to the adaptors for functions.