

# Constructor Inheriting

- By the `using` declaration a class inherits all constructor of their direct base class.
- The default constructor, the copy and move constructor will not be inherited.

```
class Account{
public:
    Account(double amount{});
};
class BankAccount: public Account{
public:
    using Account::Account;
};

BankAccount bankAccount(100.0);
```

# Constructor Inheriting

The derived class inherits all characteristics of the constructors:

- `public`, `protected` and `private` access specifiers
- `explicit` and `constexpr` declaration

Default arguments for parameters of a constructor of a base class will not be inherited.

➡ The derived class gets an additional constructor, having one parameter for the default argument.

Constructors with the same parameters as constructors in the derived class, will not be inherited.



By inheriting constructors from the base, there is the danger of forgetting to initialize the attributes of the derived class.