

C++14起, 引入泛型lambda

当lambda形参列表有以auto类型是,该lambda是泛型lambda

```
[](auto x, auto y) { return x + y; };
```

泛型lambda(C++14起)

编译器为实现该lambda构造如下的代码

```
class lambda_  
{  
public:  
    lambda_() = default;  
    template<typename T1, typename T2>  
    auto operator()(T1 x, T2 y) const  
    {  
        return x + y;  
    }  
};
```

Demo

```
int main()  
{  
    std::vector<int> a{1, 2, 3, 4, 5};  
  
    std::for_each(a.begin(), a.end(), [](auto x) { std::cout << x * x << " ";  
}); //1 4 9 16 25  
    std::cout << std::endl;  
  
    std::string x{"abc"}, y{"zxc"};  
  
    auto foo = [](auto x, auto y) { return x + y; };  
    std::cout << foo(x, y) << std::endl; //abczxc  
  
    std::cout << foo(1, 2) << std::endl; //3  
}
```