

Lightning Talk: Using auto

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Motivation

Why learn extra C++ features?

- ▶ You will read someone else's code than you write your code
- ▶ You may personally prefer using the feature
- ▶ Exposure to different features/techniques improves your skills
- ▶ May be part of an Interview Question

Trailing Return Types

Before

```
1  int add_two(int num) {  
2      int newNum = num + 2;  
3      return newNum;  
4  }
```

Trailing Return Types

Before

```
1 int add_two(int num) {  
2     int newNum = num + 2;  
3     return newNum;  
4 }
```

After

```
1 auto add_two(int num) -> int {  
2     int newNum = num + 2;  
3     return newNum;  
4 }
```

Full Example

```
1  #include <iostream>
2
3  auto add_two(int num) -> int {
4      int newNum = num + 2;
5      return newNum;
6  }
7
8  auto main() -> int {
9      int num1 = 11;
10     int num2 = add_two(num1);
11     std::cout << num2 << '\n';
12 }
```