

## Enumeration Classes

### Enumeration classes

- Store an enumeration of options
- Usually derived from `int` type
- Options are assigned consequent numbers
- Mostly used to pick path in `switch`

```
1 enum class EnumType { OPTION_1, OPTION_2, OPTION_3 };
```

- Use values as:  
`EnumType::OPTION_1, EnumType::OPTION_2, ...`
- **GOOGLE-STYLE** Name enum type as other types, `CamelCase`
- **GOOGLE-STYLE** Name values as constants  
`kSomeConstant` or in `ALL_CAPS`

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```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 enum class Channel { STDOUT, STDERR };
5 void Print(Channel print_style, const string& msg) {
6     switch (print_style) {
7         case Channel::STDOUT:
8             cout << msg << endl;
9             break;
10        case Channel::STDERR:
11            cerr << msg << endl;
12            break;
13        default:
14            cerr << "Skipping\n";
15    }
16 }
17 int main() {
18     Print(Channel::STDOUT, "hello");
19     Print(Channel::STDERR, "world");
20     return 0;
21 }
```

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