

# Objective-C Mapping for Constants

Slice [constant](#) definitions map to corresponding Objective-C constant definitions. For example:

## Slice

```
const bool      AppendByDefault = true;
const byte      LowerNibble = 0x0f;
const string    Advice = "Don't Panic!";
const short     TheAnswer = 42;
const double    PI = 3.1416;

enum Fruit { Apple, Pear, Orange };
const Fruit     FavoriteFruit = Pear;
```

Here are the generated definitions for these constants:

## Objective-C

```
static const BOOL EXAppendByDefault = YES;
static const ICEByte EXLowerNibble = 15;
static NSString * const EXAdvice = @"Don't Panic!";
static const ICEShort EXTheAnswer = 42;
static const ICEDouble EXPI = 3.1416;

typedef enum {
    EXApple, EXPear, EXOrange
} EXFruit;
static const EXFruit EXFavoriteFruit = EXPear;
```

All constants are initialized directly in the generated header file, so they are compile-time constants and can be used in contexts where a compile-time constant expression is required, such as to dimension an array or as the case label of a switch statement.

## See Also

- [Constants and Literals](#)
- [Objective-C Mapping for Modules](#)
- [Objective-C Mapping for Identifiers](#)
- [Objective-C Mapping for Built-In Types](#)
- [Objective-C Mapping for Enumerations](#)
- [Objective-C Mapping for Structures](#)
- [Objective-C Mapping for Sequences](#)
- [Objective-C Mapping for Dictionaries](#)
- [Objective-C Mapping for Exceptions](#)
- [Objective-C Mapping for Interfaces](#)