Learn C++

Variables

Print cheatsheet

Variables

A *variable* refers to a storage location in the computer's memory that one can set aside to save, retrieve, and manipulate data.

```
// Declare a variable
int score;
// Initialize a variable
score = 0;
```

Int

int is a type for storing integer (whole) numbers.

```
int age = 28;
```

Double

double is a type for storing floating point (decimal) numbers.

```
double price = 8.99;
```

Arithmetic Operators

C++ supports arithmetic operators for:

- + addition
- subtraction
- * multiplication
- / division
- % modulo (yields the remainder)

```
int x = 0;

x = 4 + 2;  // x is now 6
x = 4 - 2;  // x is now 2
x = 4 * 2;  // x is now 8
x = 4 / 2;  // x is now 2
x = 4 % 2;  // x is now 0
```

User Input

std::cin, which stands for "character input", reads user input from the keyboard.

Here, the user can enter a number, press enter, and that number will get stored in tip.

```
int tip = 0;
std::cout << "Enter amount: ";
std::cin >> tip;
```

Chaining the Output

In C++, std::cout can output multiple values by chaining them using the output

operator << .

Here, the output would be I'm 28.

```
int age = 28;
std::cout << "I'm " << age << ".\n";</pre>
```

Char

char is a type for storing individual characters. Characters are wrapped in single quotes ' '.

```
char grade = 'A';
```

String

std::string is a type for storing text strings. Strings are wrapped in double
quotes " ".

```
std::string message = "good nite";
```

Bool

bool is a type for storing true or false boolean values.

```
bool late_to_work = true;
```

Related Courses

