

### C++ helloworld

```
int main() {
    cout << " Hello World"; // prints Hello World
    return 0;
}
```

### C++ data types

int	float
double	char
string	boolean

c++ is statically typed  
'type variable\_list;'

### c++ variables

```
type variable_name = value;
int i, j, k;
char c, ch;
float f, salary;
double d;
```

**lvalue** – Expressions that refer to a memory location is called "lvalue" expression.

**rvalue** – The term rvalue refers to a data value that is stored at some address in memory.

### C++ operators

=	==
+	-
--	++
%	*
/	

### Storage Classes in C++

auto	default storage class for all local variables
register	used to define local variables that should be stored in a register instead of RAM.
static	keep a local variable in existence during the life-time of the program instead of creating and destroying it each time
extern	is used to give a reference of a global variable that is visible to ALL the program files.
mutable	It allows a member of an object to override const member function(applies only to class objects)

### Dart helloworld

```
main() or (void main())
{
    print( " Hello World! ");
}
```

### dart data types

Number	strings
boolean	list
map	

lists are equivalent of arrays(ordered lists)

Maps represent a collection of objects, Map data type represents a set of values as key-value pairs.

**Dart is an optionally typed language. If the type of a variable is not explicitly specified, the variable's type is dynamic. The dynamic keyword can also be used as a type annotation explicitly.**



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### Dart variables

```
String name = 'Smith';
dynamic x = " tom ";
final variable_name;
const variable_name;
```

- All uninitialized variables have an initial value of null. This is because Dart considers all values as objects.
- Variables declared without a **static** type are implicitly declared as **dynamic**. Variables can be also declared using the **dynamic** keyword in place of the **var** keyword.
- The final and const keyword are used to declare constants, These keywords can be used together with the variable's data type or instead of the var keyword.
- The const keyword is a compile time const.

### Dart operators

in addition to c style operators

- Unary minus, also known as negation (reverse the sign of the expr expression)
- ~/ Divide, returning an integer result
- is it is
- is! it is not
- ??= Assign the value only if the variable is null

### Dart for in loop

```
for (variablename in object){
    statement or block to execute
}

void main() {
    var obj = [12,13 ,14];

    for (var prop in obj) {
        print( prop);
    }
}
```



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