

### Data Types

| Type    | Contains | range                                                   |
|---------|----------|---------------------------------------------------------|
| boolean | 1 byte   | True or False                                           |
| char    | 16 bytes |                                                         |
| byte    | 8 bits   | -128 to +127                                            |
| short   | 16 bits  | -32768 to 32767                                         |
| int     | 4 bytes  | -2147483648 to 2147483647                               |
| long    | 8 Bytes  | -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 |
| float   | 4 bytes  | +/-3.410-38 to +/-3.41037 with 7 digits                 |
| double  | 8 Bytes  | +/-1.710-308 to +/-1.710308 with 15 digits              |

### Combined Assignment Operators

| Operator | Example  | Equivalent  | Value of variable after operation                                |
|----------|----------|-------------|------------------------------------------------------------------|
| +=       | x += 5;  | x = x + 5;  | the old value of x plus 5                                        |
| -=       | y -= 2;  | y = y - 2;  | the old value of y minus 2                                       |
| *=       | z *= 10; | z = z * 10; | the old value of z times 10                                      |
| /=       | a /= b;  | a = a / b;  | old value of a divided by b.                                     |
| %=       | c %= 3;  | c = c % 3;  | the remainder of the division of the old value of c divided by 3 |

### Hello World

text file named HelloWorld.java

```

public class HelloWorld {
    public static void main(String[] args) {
        // Prints "Hello, World" in the terminal window.
        System.out.print("Hello, World");
    }
}

```

Diagram labels: name (HelloWorld), main() method, statements, body.

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Not published yet.

Last updated 18th October, 2017.

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