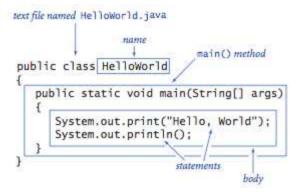
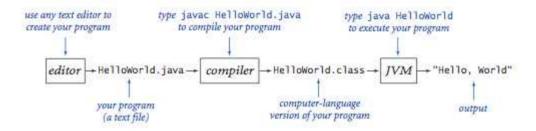
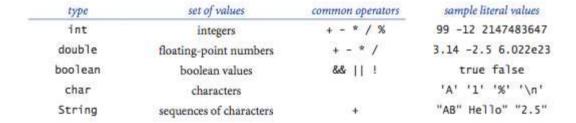
### Hello, World.



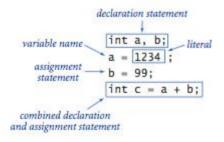
### Editing, compiling, and executing.



### Built-in data types.



## Declaration and assignment statements.



## Integers.

values	integers between -2 31 and +2 31-1				
typical literals		1234	99 -99 0	1000000	
operations	add	subtract	multiply	divide	remainder
operators	+	=	*	1	%

	É	жр	res	sio	11		value	comment
		5	+	3			8	
		5	-	3			2	
		5	w	3			15	
		5	1	3			1	no fractional part
		5	%	3			2	remainder
		1	1	0				run-time error
	3	#	5	-	2		13	* has precedence
	3	+	5	1	2		5	/ has precedence
	3	-	5	-	2		-4	left associative
(	3	-	5	)	-	2	-4	better style
3	-	(	5	-	2	)	0	unambiguous

# Floating-point numbers.

values	real numbers (specified by IEEE 754 standard)					
typical literals	3.14159	6.022e23	-3.0	2.0	1.4142135623730951	
operations	add	subtract	n	nultiply	divide	
operators	+	-		*	/	

expression	value		
3.141 + .03	3.171		
3.14103	3.111		
6.02e23 / 2.0	3.01e23		
5.0 / 3.0	1.666666666666667		
10.0 % 3.141	0.577		
1.0 / 0.0	Infinity		
Math.sqrt(2.0)	1.4142135623730951		
Math.sqrt(-1.0)	NaN		
	CW C		

### Booleans.

values	true or false			
literals	tr	ue fa	lse	
operations	and	or	not	
operators	8.8	11	1	

a	!a	a	b	a && b	a    b
true	false	false	false	false	false
false	true	false	true	false	true
		true	false	false	true
		true	true	true	true

### Comparison operators.

op	meaning	true	false
200,000	equal	2 == 2	2 == 3
! =	not equal	3 != 2	2 != 2
<	less than	2 < 13	2 < 2
<=	less than or equal	2 <= 2	3 <= 2
>	greater than	13 > 2	2 > 13
>=	greater than or equal	3 >= 2	2 >= 3

non-negative discriminant? (b\*b - 4.0\*a\*c) >= 0.0beginning of a century? (year % 100) == 0legal month? (month >= 1) && (month <= 12)

## Parsing command-line arguments.

int Integer.parseInt(String s)
double Double.parseDouble(String s)
long Long.parseLong(String s)

convert s to an int value convert s to a double value convert s to a long value

## 연산자의 종류

이름		연산자	결합규칙
단	후치 증감	++,	좌 →
단     후치 증감       항     전치 증감       산     다하 프리스/마이너스 (양스/우스)		++,	<u>♀</u> ←
차	단항 플러스/마이너스 (양수/음수)	+, -	<b>→</b>
	곱하기, 나누기. 나머지	*, /, %	ক →
더하기, 빼기		+, -	좌 →
문자열 연결		+	ক →
대입 연산자		=, *=, /=, %=, +=, -=	<b>♀</b> ←
관계 연산자		관계 연산자 >, >=, <, <=, !=	
논리 연산자		&, &&,  ,   , !	N/A

## 후치 증감 vs. 전치 증감

### ▶전치

```
x = 10;
y = ++x + 5;
System.out.println("x = "+x);
System.out.println("y = "+y);
```

#### ▶출력

x = 11

y = 16

#### ▶후치

```
x = 10;
y = x++ + 5;
System.out.println("x = "+x);
System.out.println("y = "+y);
```

#### ▶출력

x = 11

y = 15