

Chapter. 01

Kotlin

| Kotlin 문법 훑어보기

FAST CAMPUS
ONLINE
Kotlin Android |

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I Hello World!

```
fun main(args: Array<String>) {  
    print("Hello World!")  
}
```

I Function

```
fun sum(a: Int, b: Int): Int {  
    return a + b  
}
```

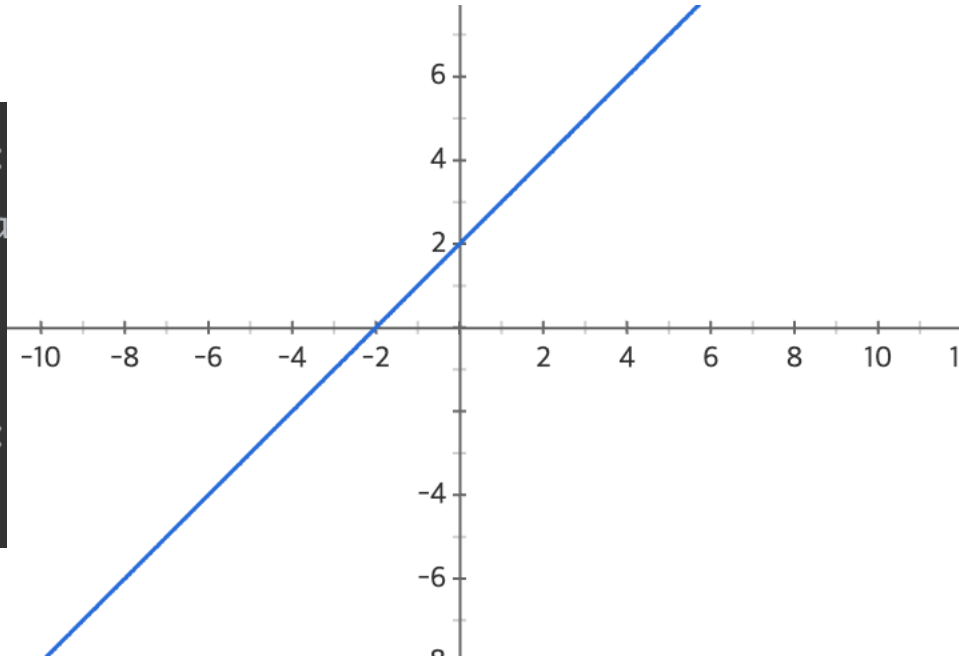
```
fun sum(a: Int, b: Int) = a + b
```

I Function

$$F(x) = x + 2$$

```
fun sum(a:  
    return a  
}
```

```
fun sum(a:
```



I Function expression

```
fun sum(a: Int, b: Int): Int {  
    return a + b  
}
```

```
fun sum(a: Int, b: Int) = a + b
```

I Function expression

```
fun max(a: Int, b: Int) = if (a > b) a else b
```

I Value, Variable

```
val a: Int = 1
val b = 2
val c = 3.14
val d: String
d = "필수로 있어야 하는 구문"
// d = "d의 초기값이 없으면 null이 될 수 있는데, d는 null 이 될 수 없기 때
문에."
val e: String?

var d: String = "첫번째 초기화"
e = "두번째 초기화"
```

I Type

Numbers

정수형

- Byte
- Short
- Int : 123
- Long : 123L

실수형

- Float : 123.4f
- Double : 123.4

그 외

- Char
- String

```
var str String = "abcd"
str = "abcd" + 1      // abcd1
str = "abcd" + "efg" // abdcefg
```

- Boolean

```
val myTrue: Boolean = true
val myFalse: Boolean = false
val boolNull: Boolean? = null
```


I For 반복문

```
for (i in 1..5) {  
    println(i)  
}  
// 1 2 3 4 5  
  
for (i in 6 downTo 0 step 2) {  
    println(i)  
}  
// 6 4 2 0  
  
for (i in 1..5 step 3) {  
    println(i)  
}  
// 1 4  
  
val numberList = listOf(100, 200, 300)  
for (number in numberList){  
    println(number)  
}  
// 100 200 300
```

I While 반복문

```
var x = 5
while (x > 0) {
    println(x)
    x--
}
// 5 4 3 2 1
```

```
x = 0
while (x > 0) {
    println(x)
    x--
}
// 출력 없음
```

```
var y = 0
do {
    print(y)
    y--
} while (y > 0)
// 0
```


if 문

```
var max: Int
if (a > b) {
    max = a
} else {
    max = b
}


// As expression
val max = if (a > b) {
    print("Choose a")
    a
} else {
    print("Choose b")
    b
}
```

I When 문


```
when (x) {  
    1 -> print("x == 1")  
    2 -> print("x == 2")  
    else -> {  
        print("x is neither 1 nor 2")  
    }  
}  
  
when (x) {  
    0, 1 -> print("x == 0 or x == 1")  
    else -> print("otherwise")  
}  
  
when (x) {  
    in 1..10 -> print("x는 1부터 10 범위 안에 있음")  
    !in 10..20 -> print("x는 10부터 20 범위 안에 없음")  
    else -> print("otherwise")  
}  
  
when(x) {  
    is Int -> print("x는 인트형")  
    else -> print("x는 인트형이 아님")  
}
```


 Kotlin v1.4.30

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
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Multiplatform Mobile

The natural way to share code between mobile platforms




Server-side

Modern development experience with familiar JVM technology



Web Frontend

Extend your projects to web



Android

Recommended by Google for building Android apps

<https://kotlinlang.org/>