

Java Code Conventions /

: [Code Conventions for Java™ Programming Language](#), Revised April 20, 1999

: 2001 1 10

: 2015 2 10

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1.

(Code Convention)

가?

가

:

- 가 80%가 .
- 가 가 .
- 가 , 가 ,
- 가 (package) 가 .



: <http://www.lanavaughan.com/relation-ships/four-part-communication>

2.

2.1.

	.java
	.class

2.2.

GNUmakefile	make gnumake
README	

3.

2000 가 (section) .
 , “11.1. _____” .

3.1.

public 가 Private
public , public private .

Public

가 .

-
- Package Import
-

3.1.1.

, , , C .

```
/*
 * ??? ??
 *
 * ?? ??
 *
 * ??
 *
 * ??? ??
 */
```

3.1.2. Package Import

: package . , import .

```
package java.awt;

import java.awt.peer.CanvasPeer;
```

: Package , package ASCII
, (com, edu, gov, mil, net, org) 1981 [ISO Standard 3166](#)

3.1.3. Class Interface

(Class) (Interface) .

	/	
1	/ (/**...*/)	"5.2. (Documentation) "
2	/	
3	, / (/**...*/),	/
4	(static)	public

	/	
		, protected package((access modifier)가) private .
5		.
6		
7		private 가 public 가 . 가 , .

4.

4 (space) 4 , 8 ()

4.1.

80 (terminal) .
: 가 , 70 가 .

4.2.

가 , .

-
- (operator) .
-
- (expression) .
- , 8 .

가 .

```
someMethod(longExpression1, longExpression2, longExpression3,
            longExpression4, longExpression5);

var = someMethod1(longExpression1,
                  someMethod2(longExpression2,
                              longExpression3));
```

가

8

4

8

(ternary expression)

가

가

•

•

6 / 20

```
alpha = (aLongBooleanExpression) ? beta
                                     : gamma;

alpha = (aLongBooleanExpression)
        ? beta
        : gamma;
```

5.

// 가 : (documentation) /*...*/
 가 C++ , /**...*/ HTML
 가 javadoc
 가 ,
 가 ,
 (specification) .
 가
 가 가
 가? ' ,'
 가? ' ,'
 가 ,
 가
 :
 가 ,
 (*)
 (form-feed:) (backspace)

5.1.

가 4가 : (block) , (single-line) ,
 (trailing) , (end-of-line) .

5.1.1. (Block)

```
/*
 * ??? ? ???? ?????.
 */
```

/*- . :

```
/*-
 * ??? ????? ??? ?
 * ?? ??? ????.
 *
 *      one
 *      two
 *      three
 */
```

5.1.2. (Single-Line)

가 , . ("5.1.1 (Block) " .)

```
if (condition) {
    /* ? ??? ????. */
    ...
}
```

5.1.3. (Trailing)

```
if (a == 2) {
    return TRUE;          /* ??? ?? */
} else {
    return isPrime(a);     /* a ? ??? ?? */
}
```

5.1.4. (End-Of-Line)

// . , 가 :

```
if (foo > 1) {
    // double-flip? ????.
    ...
}
```



```

else {
    return false;           // ??? ??? ????.
}
//if (bar > 1) {
//
//    // double-flip? ????.
//    ...
//}
//else {
//    return false;
//}

```

5.2. (Documentation)

: ["11.1."](#)

/**...*/

가

```

/**
 * Example ????. ...
 */
public class Example { ...

```

1 (**) ; 4
5

____") ("5.1.1 (Block) ____") ("5.1.2 (Single-Line)

6.

6.1.

```

int level; // ??? ?
int size; // ??? ?

```

```
int level, size;
```

. :

```
int foo, fooarray[]; //?? ??? ????
```

:
가 space 가

```
int      level;           //  ??? ?
int      size;            //  ?? ?
Object   currentEntry;    //  ????? ? ? ? ?
```

6.2.

,
.

6.3.

.(" ")
;
.

```
void myMethod() {
    int int1 = 0;           //  ??? ??? ?

    if (condition) {
        int int2 = 0;      //  "if" ??? ?
        ...
    }
}
```

. 가 for :

```
for (int i = 0; i < maxLoops; i++) { ... }
```

:
.

```
int count;
...
myMethod() {
    if (condition) {
        int count = 0;      //  ??? ????? ? ?!
```

```

    ...
}
    ...
}

```

6.4.

- , :
- "{ " / / " " .
- "}" "}" 가 "{" null ,

```

class Sample extends Object {
    int ivar1;
    int ivar2;

    Sample(int i, int j) {
        ivar1 = i;
        ivar2 = j;
    }

    int emptyMethod() {}

    ...
}

```

- .

7. (Statements)

7.1.

(statement) . :

```

argv++;      // ??? ???
argc--;      // ??? ???
argv++; argc--; // ??? ????? ?? !

```

7.2.

"{ statements }"

- .
- ("{" "}")
- , if-else for (, 가 .

7.3. return

return
.
:
return

```
return;

return myDisk.size();

return (size ? size : defaultSize);
```

7.4. if, if-else, if else-if else

if-else
:

```
if (condition) {
    statements;
}

if (condition) {
    statements;
} else {
    statements;
}

if (condition) {
    statements;
} else if (condition) {
    statements;
} else {
    statements;
}
```

: if
.
가
:

```
if (condition) // ??? ??? {}? ???? ???? ??!
    statement;
```

7.5. for

for
:

```
for (initialization; condition; update) {
    statements;
}
```

for (initialization, condition, update) 가 :

```

for initialization
    update (,)
    , (initialization ) for
    (update )

```

```
while (condition) {
    statements;
}
```

```
do {
    statements;
} while (condition);
```

```
switch (condition) {
case ABC:
    statements;
    /* ??? ? ?????. */
case DEF:
    statements;
    break;
case XYZ:
    statements;
    break;
default:
    statements;
    break;
}
```

case break .
 case .
 switch default case , default case break
 , case가 가 .

7.9. try-catch

try-catch :

```
try {
    statements;
} catch (ExceptionClass e) {
    statements;
}
```

try-catch try , 가
 가 finally .

```
try {
    statements;
} catch (ExceptionClass e) {
    statements;
} finally {
    statements;
}
```

8. (White Space)

8.1. (Blank Lines)

가 (readability) , 가

:

-
-

:

-
-

- (Block) ([5.1.1. \(Block\)](#)) (Single-Line) ([5.1.2. \(Single-Line\)](#))
- 가)

8.2. (Blank Spaces)

:

- . :

```
while (true) {
    ...
}
```

-
- (argument)
- (binary) (unary)
- (가 ++ --) :

```
a += c + d;
a = (a + b) / (c * d);

while (d++ = s++) {
    n++;
}
printSize("size is " + foo + "\n");
```

- for (expression) :

```
for (expr1; expr2; expr3)
```

- (cast) :

```
myMethod((byte) aNum, (Object) x);
myMethod((int) (cp + 5), ((int) (i + 3))
        + 1);
```

9. (Naming)

(identifier) - ,

Packages	ASCII , 가 com, edu, gov, mil, net, org, 1981 ISO Standard 316 가	com.sun.eng com.apple.quicktime.v2 edu.cmu.cs.bovik.cheese

Classes	<pre> class Raster; class ImageSprite; (, 가 URL HTML ,). </pre>	<pre> class Raster; class ImageSprite; </pre>
Interfaces		<pre> interface RasterDelegate; interface Storing; </pre>
Methods		<pre> run(); runFast(); getBackground(); </pre>
Variables	<pre> integer i, j, k, m, n , character c, d, e </pre>	<pre> Int i; char c; float myWidth; </pre>
Constants	<pre> ANSI (" ") ANSI). </pre>	<pre> static final int MIN_WIDTH = 4; static final int MAX_WIDTH = 999; static final int GET_THE_CPU = 1; </pre>

10.

10.1.

!

public

가

가 public
(data structure)

Java가 struct

), class

class
public

가 struct

(behavior) 가

(

10.2.

!

(static)

. :

```
classMethod();           // ?? ???
AClass.classMethod();    // ?? ???
anObject.classMethod();  // ?? ???
```

10.3.

!

for

-1, 0, 1

,

.

10.4.

!

(statement)

:

가

.

```
fooBar.fChar = barFoo.lchar = 'c'; // ??? ????? ??!
```

(equality operator: ==)

:

(assignment operator: =)

.

```
if (c++ = d++) {           // ??? ????? ??! (??? ????? ??)
    ...
}
```

```
if ((c++ = d++) != 0) {
    ...
}
```

(assignment statement)

.

:

```
d = (a = b + c) + r;       // ??? ????? ??!
```

```
a = b + c;  
d = a + r;
```

10.5.

10.5.1.

· ,
·

```
if (a == b && c == d)    // ??? ??? ?!  
if ((a == b) && (c == d)) // ??? ??? ?!
```

10.5.2.

· :

```
if (booleanExpression) {  
    return true;  
} else {  
    return false;  
}
```

·

```
return booleanExpression;
```

· :

```
if (condition) {  
    return x;  
}  
return y;
```

·

```
return (condition ? x : y);
```

10.5.3. '?' (expression)

(ternary operator - ?:) ? (binary operator) (expression)

· :

```
(x >= 0) ? x : -x;
```

11.

11.1.

interface public class 가 "3.1.3. Class Interface " "5.2. (Documentation)"

```
/*
 * @(#)CodeConvention.java                      0.82 2000/1/17
 *
 * [??? ? ????? ?? ??? ??? ?????.]
 * Copyright (c) 2015 Kwangshin Oh.
 * ComputerScience, ProgrammingLanguage, Java, Seoul, KOREA
 * All rights reserved.
 *
 * This software is the confidential and proprietary information of Kwangshin
 * Oh ("Confidential Information"). You shall not
 * disclose such Confidential Information and shall use it only in
 * accordance with the terms of the license agreement you entered into
 * with Kwangshin Oh.
 */

package kwangshin.codeconvention;

import kwangshin.*;

/**
 * ????? ?? ??? ??? ?????.
 *
 * @version                      1.00 2015? 2? 9?
 * @author                      ???
 */
public class CodeConvention extends Convention {
    /* ????? ?? ??? ??? ?????. */

    /** ??? ?? classVar1? ?? ??? ??? ?????. (?? ??) */
    public static int classVar1;

    /**
     * ??? ?? classVar2? ?? ??? (?? ???)
     * ? ? ??? ?? ??? ?????.(?? ????? private? ?? ????? ??.)
     */
    private static Object classVar2;

    /** ????? ?? instanceVar1? ?? ??? ??? ?????.(?? ??) */
    public Object instanceVar1;

    /** ????? ?? instanceVar2? ?? ??? ??? ?????.(?? ??) */
    protected int instanceVar2;
```

}