

Code Conventions for JavaTM Programming Language

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1.

- code convention 가?
- Code convention 가 :
- lifetime 80%가
 - 가
 - Code convention
 - 가 , 가

2.

2.1.

:

	.java
	.class

2.2.

:

GNUmakefile	make gnumake
README	

3.

2000
 , “ 11.1 Java Source File Example”

3.1.

private public public 가 . Private
public , public
. Public
가 .

-
- Package Import
-

3.1.1.

, , , C
/*
*
*
*
*
*
*
*
*
*/

3.1.2. PACKAGE IMPORT

package
import :
package java.awt;
import java.awt.peer.CanvasPeer;

: ASCII
(com, edu, gov, mil, net, org) 1981 ISO
Standard 3166

3.1.3.

	/	
1	/ (/**...*/)	“5.2 ”
2	/	
3	, / (/**...*/),	/
4	(static)	public protected package(가) private
5		
6		
7		가 public private

4.

4 가 (
) . 4 가 8 .

4.1.

80
:
70 가 .

4.2.

Expression 가 ,

-
- (Operator)
-

- expression

- 8

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

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

가 가

```
longName1 = longName2 * (longName3 + longName4 - longName5)  
            + 4 * longname6; //
```

```
longName1 = longName2 * (longName3 + longName4  
                        - longName5) + 4 * longname6; //
```

, 8

```
//
```

```
someMethod(int anArg, Object anotherArg, String yetAnotherArg,  
            Object andStillAnother) {  
    ...  
}
```

```
// 8
```

```
private static synchronized horkingLongMethodName(int anArg,  
            Object anotherArg, String yetAnotherArg,
```

```
Object andStillAnother) {  
    ...  
}
```

8- (4) :

```
//  
if ((condition1 && condition2)  
    || (condition3 && condition4)  
    || !(condition5 && condition6)) { //  
    doSomethingAboutIt(); // 가 .  
}
```

```
//  
if ((condition1 && condition2)  
    || (condition3 && condition4)  
    || !(condition5 && condition6)) {  
    doSomethingAboutIt();  
}
```

```
//  
if ((condition1 && condition2) || (condition3 && condition4)  
    || !(condition5 && condition6)) {  
    doSomethingAboutIt();  
}
```

ternary expression 가 :

alpha = (aLongBooleanExpression) ? beta : gamma;

$$\alpha = (\text{aLongBooleanExpression}) ? \beta : \gamma;$$

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

5.

가 : .
/*...*/ // 가 C++ . (doc comments
) javadoc , /**...*/ 가 . Doc
comments HTML .
comment 가 . Doc
가 .
가 가
가? ' ' .
, ' 가? ' .
, ' 가 가
가 .
가
: .
, .
form-feed backspace .

5.1.

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

5.1.1. BLOCK

Diagram illustrating the relationship between blocks and transactions:

- A block contains multiple transactions.
- A transaction is linked to a block.
- A block is linked to a transaction.

```
/*
 *      block comment
 */
```

Block	:	block	/* -
.	:		

```
/* -
 *
 *
 * block
 *
 *
 * one
 *
 * two
 *
 * three
 */
```

5.1.2. SINGLE-LINE

“ .) Single-line . (“ 5.1.1 Block
single-line :

```
if (condition) {  
    /* Handle the condition. */  
    ...  
}
```

5.1.3. TRAILING

| trailing | : |

```
if (a == 2) {
    return TRUE;           /* special case */
} else {
    return isPrime(a);     /* works only for odd a */
}
```

5.1.4. END-OF-LINE

```
//
.
,
가
:
if (foo > 1) {
    // Do a double-flip.
    ...
}
else {
    return false;        // Explain why here.
}
//if (bar > 1) {
//
//    // Do a triple-flip.
//    ...
//}
//else {
//    return false;
//}
```

5.2.

: “ 11.1 Java Source File Example”

Doc
doc
/** ... */
가 . Doc
:

```
/**
 * The Example class provides ...
 */
public class Example { ...
```

doc (/**)
1 space
4 space
5 space
single-line (5.1.2 Single-Line)
block (5.1.1 Block)

doc, class block
doc

6.

6.1.

```
int level; // indentation level  
int size; // size of table
```

```
int level, size;
```

```
int foo, fooarray[]; //WRONG!
```

: space 가

```
int    level;           // indentation level  
int    size;            // size of table  
Object currentEntry;    // currently selected table entry
```

6.2.

가

6.3.

.(“ {“ “ }”
;
가

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

```
    if (condition) {  
        int int2 = 0;    // “ if”  
        ...  
    }  
}
```

for

for

:

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

,

:

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

6.4.

,

:

●

“(” 가

●

“{”

●

“}” “}” 가 “{”

null

```
class Sample extends Object {  
    int ivar1;  
    int ivar2;  
  
    Sample(int i, int j) {  
        ivar1 = i;  
        ivar2 = j;  
    }  
  
    int emptyMethod() {}  
  
    ...  
}
```

-

7.

7.1.

```
argv++;      // Correct
argc--;      // Correct
argv++; argc--; // AVOID!
```

7.2.

```
“ {      }”
```

-

-

-

```
if-else      ,
for
(
)
가
```

7.3. RETURN

```
가      return      :      return      가
```

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

7.4. IF, IF-ELSE, IF ELSE-IF ELSE

```
if-else      가      :
```

```
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; condition; update);
```

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

7.6. WHILE

while 가 :

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

while 가 :

```
while (condition);
```

7.7. DO-WHILE

do-while 가 :

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

7.8. SWITCH

switch 가 :

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

break .
case .
switch default case . Default case break
, case 가 가 .

7.9. TRY-CATCH

try-catch 가 :

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


try-catch try
가 finally 가 .

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

8.

8.1.

가 .
 :

-
-
-
-
-
- block (5.1.1 Block .) single-line (5.1.2 Single-Line
- 가

8.2.

:

- . :
- while (true) {
 ...
 }
 .
- 가
- .
- . 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 CONVENTIONS

Naming convention
identifier

Packages	ASCII , 가 com, edu, gov, mil, net, org, 1981 ISO Standard 316 가 naming convention convention	com.sun.eng com.apple.quicktime.v2 edu.cmu.cs.bovik.cheese
Classes		class Raster; class ImageSprite;

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

10. PROGRAMMING

10.1.

public
가 가 .
가 public
data structure . class
(Java 가 struct), class struct
behavior 가
public

10.2.

(static)

```
classMethod();           //OK
AClass.classMethod();    //OK
anObject.classMethod();   //AVOID!
```

10.3.

for - 1, 0, 1

10.4.

가

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

Equality	(==)	assignment	(=)
.	:		

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

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

assignment

assignment

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

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

10.5. 가

10.5.1.

expression

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

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. CONDITIONAL OPERATOR '?' EXPRESSIONS

Ternary operator ?: ? binary operator expression ,
가 . :

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

11. CODE EXAMPLES

11.1. JAVA SOURCE FILE EXAMPLE

```

public class 가
    " 5.2 "
    " 3.1.3

/*
 * @(#)CodeConvention.java      0.82 2000/1/17
 *
 * Copyright (c) 2000 Kwang Shin OH.
 * Shin Ra APT. 401 - 1501 KwanYang - DONG, DongAn - GU, AnYang - SI, KOREA
 * All rights reserved.
 *
 * This software is the confidential and proprietary information of Kwang Shin
 * 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 Kwang Shin OH.
 */

package kwangshin.codeconvention;

import kwangshin.*;

/**
 *
 *
 * @version      0.82 17 Jan 2000
 * @author      Firstname Lastname
 */
public class CodeConvention extends Convention{
    /**
     *
     */
    public static int classVar1;

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

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

    /**
     *
     * instanceVar2 ( )
     */
    protected int instanceVar2;

    /**
     *
     * instanceVar3 ( ) private
     */
    private Object[] instanceVar3;

    /**

```

```

    * ...      DepositCommodity                .(      )...
    */
public CodeConvention() {
    // ...      ...
}

/**
 * ...      doSomething                .(      )...
 */
public void doSomething() {
    // ...      ...
}

/**
 * ...      doSomethingElse                .(      )...
 * @param someParam
 * @return String
 * @exception exception
 */
public String doSomethingElse(Object someParam) {
    // ...      ...
}
}
```