
<JSTORM>

Good Java Style



JSTORM
<http://www.jstorm.pe.kr>

Document Information

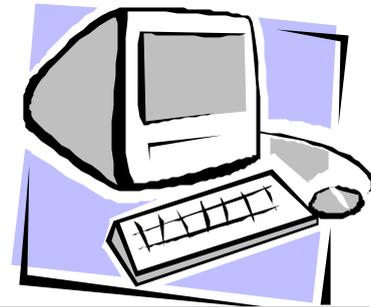
Document title:	Good Java Style
Document file name:	GoodJavaStyle_ChoJungMin
Revision number:	<1.0>
Issued by:	< > modest@hitel.net , miniguru@dreamwiz.com / < > junoyoon@orgio.net
Issue Date:	<2001/04/12>
Status:	final

Content Information

Audience	
Abstract	Jstorm
Reference	Good Java Style By Thornton Rose (http://softwaredev.earthweb.com/java/sdjajt/article/0,,12403_600581,00.html)
Benchmark information	

Table of Contents

Good Java Style	4
.....	4
가?	4
.....	5
vs (Tab vs. space).....	5
.....	5
(Block) (Statement).....	7
.....	9
import	10
.....	12
(Field Declaration).....	14
(Method Declaration)	15
.....	17
.....	17
.....	17
.....	17



Good Java Style

가?

가

가 , 가
가

Microsystems Java Code Conventions) 가 . (Sun

o (lifetime cost) 80%가 (maintena
nce)

o)

o

o

가

가
(professional)

- 가 , , (homogeneity) ,
- (trace)
- 가
- 가

- 가 . 가 , 가
-
-
- (identifier)
-
- .(inner
- .)
- 80~90
- (whitespace) (seperator)
- (indentation) (space)

vs (Tab vs. space)

Tab vs. Spaces
(religious issue)

가

```

        Javadoc      (implementation)      Javadoc      javadoc
        API          .                      "          (how)" "
(why)"
.
o 가      Javadoc      .(
o      ,      //
      (/* */)
      가
      .(

```

Example 1.

```
// applyRotAscii() -- Apply ASCII ROT
private void applyRotAscii(){
try {
    // get rot len
    int rotLength = Integer.parseInt(rotationLengthField.getText().trim());
    RotAscii cipher = new RotAscii(rotLength); // new cipher
    textArea.setText(cipher.transform(textArea.getText())); // transform
} catch (Exception ex) {
    /* Show exception */
    ExceptionDialog.show(this, "Invalid rotation length: ", ex); }
}
```

Example 2.

```
/**
 * Apply the ASCII rotation cipher to the user's text. The length is retrieved
 * from the rotation length field, and the user's text is retrieved from the
 * text area.
 *
 * @author Thornton Rose
 */
private void applyRotAscii() {
    int rotLength = 0; // rotation length
    RotAscii cipher = null; // ASCII rotation cipher

    try {
        // Get rotation length field and convert to integer.

```

```
rotLength = Integer.parseInt(rotationLengthField.getText().trim());

// Create ASCII rotation cipher and transform the user's text with it.

cipher = new RotAscii(rotLength);
textArea.setText(cipher.transform(textArea.getText()));

} catch(Exception ex) {
// Report the exception to the user.

ExceptionDialog.show(this, "Invalid rotation length: ", ex);
}
}
```

(Block) **(Statement)**

```
o
o      (      , 'if'      ) ({}      )
o      (nested)      ,
o      . (      , ) // end if
```

```
o
o
o
```

```
o switch      case (clause)
o
o if, for, while
o 가      (expression)
```

```
for
for      ,for (int i = 0; ...)
()
()
```

Example 3.

```
try{
  for(int i=0;i<5;i++){
    ...
  }
  int threshold=calculateThreshold();
  float variance=(threshold*2.8)-1;
  int c=0;
  if (threshold<=15) c=calculateCoefficient();
  switch(c){
  case 1: setCeiling(c*2); break;
  case 2: setCeiling(c*3); break;
  else: freakOut();
  }
}catch(Exception ex){ ... }
```

Example 4.

```
try {
  int threshold = 0;
  float variance = 0.0;
  int coefficient = 0;

  // Prepare 5 cycles.

  for (int i = 0; i < 5; i ++){
    prepareCycle(i);
  }

  // Calculate the threshold and variance.

  threshold = calculateThreshold();
  variance = (threshold * 2.8) - 1;

  // If the threshold is less than the maximum, calculate the coefficient.
  // Otherwise, throw an exception.

  if (threshold <= MAX_THRESHOLD) {
    coefficient = calculateCoefficient();
  } else {
    throw new RuntimeException("Threshold exceeded!");
  }

  // Set the ceiling based on the coefficient.

  switch (coefficient) {
```

```
    case 1:
        setCeiling(coefficient * 2);
        break;

    case 2:
        setCeiling(coefficient * 3);
        break;

    else:
        freakOut();
} // end switch
} catch(Exception ex) {
    ...
} // end try
```

1. ()
- 2.
3. (separator)
4. import
5. (separator)
6. ()

Example 5.

```
package org.rotpad;
import java.awt.*;
import javax.swing.event.*;
import org.javacogs.*;
import javax.swing.*;
import java.awt.event.*;
class Foo {
    ...
}
public class RotPad extends JFrame {
    ...
}
```

Example 6.

```
package org.rotpad;

// Java classes
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.event.*;

// JavaCogs classes
import org.javacogs.*;

/**
 * RotPad is a simple GUI application for performing
 * rotation ciphers on plain text.
 *
 * @author Thornton Rose
 * @version 1.0
 */
public class RotPad extends JFrame {
    ...
}

//-----

/**
 * Foo is ...
 *
 * @author Thornton Rose
 * @version 1.0
 */
class Foo {
    ...
}
```

import

가 (,java.awt.*) import
가 .import 가 .

1. (java.*)
2. (javax.*)
3. 가
- 4.

가

(//)

import

Example 7. import

```
import java.util.*;
import javax.swing.*;
import java.awt.event*;
import com.gensym.com.*;
import javax.swing.table.*;
import com.pv.jfcx.*;
import java.awt.*;
import com.melthorn.util.*;
```

Example 8. import

```
import java.awt.*;
import java.awt.event*;
import java.util.*;
import javax.swing.table.*;
import com.gensym.com.*; // BeanXporter
import com.pv.jfcx.*; // ProtoView
import com.melthorn.util.*; // Utilities

// Java classes
import java.awt.*;
import java.awt.event*;
import java.util.*;
import javax.swing.table.*;

// BeanXporter
import com.gensym.com.*;

// ProtoView GUI components
import com.pv.jfcx.*;

// Application classes
import com.melthorn.util.*;
```

가

1. Javadoc
- 2.
3. (field)
4. (seperator)
- 5.
6. (seperator)
7. main() (method)
8. (seperator)
9. inner
10. (seperator)
11. main()

Example 9.

```
// RotPad -- GUI app. for ROT ciphering
public class RotPad extends JFrame {
    private static final String TRANSFORM_ROT13 = "ROT13";
    private static final String TRANSFORM_ROT13N5 = "ROT13N5";
    private static final String TRANSFORM_ROTASCII = "ROT-ASCII";

    private void jbInit() throws Exception {
        ...
    }

    public static final String TITLE = "RotPad";
    public static final String VERSION = "1.0";

    public static void main(String[] args) {
        ...
    }

    public RotPad() {
        ...
    }
}
```

```
private JPanel jPanel1 = new JPanel();
private JPanel jPanel2 = new JPanel();
private BorderLayout BorderLayout1 = new BorderLayout();
...
}
```

Example 10.

```
/**
 * RotPad is a simple GUI application for performing
 * rotation ciphers on plain text.
 *
 * @author Thornton Rose
 * @version 1.0
 */
public class RotPad extends JFrame {
    // Public constants

    public static final String TITLE = "RotPad";
    public static final String VERSION = "1.0";

    // Private constants

    private static final String TRANSFORM_ROT13 = "ROT13";
    private static final String TRANSFORM_ROT13N5 = "ROT13N5";
    private static final String TRANSFORM_ROTASCII = "ROT-ASCII";

    // GUI components [JBuilder generated]

    private BorderLayout BorderLayout1 = new BorderLayout();
    private JPanel jPanel1 = new JPanel();
    private JPanel jPanel2 = new JPanel();
    ...

    /**
     * Construct a new instance of this class.
     */
    public RotPad() {
        ...
    }

    /**
     * Initialize UI components. [JBuilder generated]
     */
    private void jbInit() throws Exception {
        ...
    }

    ...
}
```



```
public static final RESULT_CANCEL = 0;  
// ...  
}
```

Example 12.

```
/**  
 * ...  
 */  
public class CustomerSearchDialog extends JDialog {  
    /**  
     * Indicates that search was cancelled; returned by showDialog() when  
     * user clicks cancel button.  
     */  
    public static final RESULT_CANCEL = 0;  
  
    /**  
     * Indicates that a customer was selected; returned by showDialog() when  
     * user clicks select button.  
     */  
    public static final RESULT_SELECT = 1;  
  
    private Vector results = new Vector(); // Search results.  
    private DefaultTableModel tableModel = new DefaultTableModel(); // Grid model.  
  
    // GUI fields. [JBuilder]  
  
    private JLabel firstNameLabel = new JLabel();  
    private JLabel lastNameLabel = new JLabel();  
    // ...  
}
```

(Method Declaration)

```
o Javadoc  
o (access modifier)  
o 가  
o ( ) ({} (line break)  
o 가
```

Example 13.

```
public int getTypeCount (String custType)
{
...
}
static public getInstance(){ ... };
public void showRange()
    throws RangeException {
...
}
```

Example 14.

```
/**
 * Return the single instance of this class.
 */
public static CalculationEngine getInstance() {
    return instance;
}

/**
 * Calculate the consumption coefficient.
 */
public float calculateConsumptionCoefficient(int base, float variance,
    int iterations) throws RangeException {
    // ...
}

/**
 * Calculate the consumption coefficient.
 */
public float calculateConsumptionCoefficient(
    int base,
    float variance,
    int iterations)
    throws RangeException
{
    // ...
}

/**
 * Calculate the consumption coefficient.
 */
public float calculateConsumptionCoefficient(int base,
    float variance,
    int iterations)
```

```
throws RangeException
{
  // ...
}
```

가

(cf. Raymond "Indent Style")

가

- o [Indent Style, The Jargon File](#), Eric S. Raymond.
- o [Tabs vs. Spaces](#), Jamie Zawinski.
- o [Writing Robust Java Code — The Ambysoft Inc. Coding Standards for Java](#), Scott Ambler.
- o [Draft Java Coding Standard](#), Doug Lea.
- o [Java Code Conventions](#), Sun Microsystems, Inc.
- o [How to Write Doc Comments for Javadoc](#), Sun Microsystems, Inc.
- o [The Jargon File \(known in print as *The New Hacker's Dictionary*\)](#), Eric S. Raymond

Java Code Conventions. Copyright, 1995-2000 Sun Microsystems, Inc.

Thornton Rose is a contract software developer in Atlanta, Ga. He can be reached via e-mail at thornton.rose@mindspring.com.