



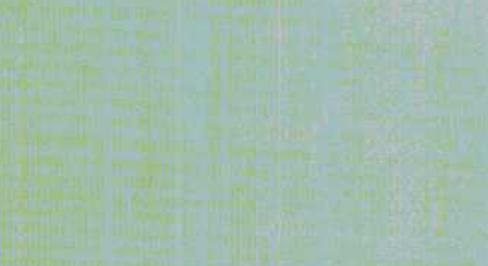
JAVA PROGRAMMING GUIDE

[Java]
[编程教程]

(英文版)



本光盘内容包括：
本版电子书





JAVA PROGRAMMING GUIDE

[Java]
[编程教程]

本光盘内容包括：
本版电子书

(英文版)

本书附盘可从本馆主页 <http://lib.szu.edu.cn/>
上由“馆藏检索”该书详细信息后下载，
也可到视听部复制



北京希望电子出版社
Beijing Hope Electronic Press
www.bhp.com.cn

内 容 提 要

这是一本关于如何用 Java 进行开发和编程的教科书。全书由五个部分共十章构成。第一部分是 Java 组件包 XDK，由四章组成，内容包括用 Java 实现 XML，XML 类派生器，查询语言 XSQL Servlet 和可视化小程序；第二部分是 PL/SQL 组件包 XDK，由一章构成，内容包括用 PL/SQL 实现 XML；第三部分是 C 语言的组件包 XDK，由一章构成，内容是用 C 语言实现 XML；第四部分是 C++ 的组件包 XDK，由二章构成，内容包括用 C++ 实现 XML，Oracle XML 类派生器；第五部分是 XML-SQL 实用程序（XSU）软件包，由二章构成，内容包括 Oracle XSU 应用程序接口 Java API 和 XUS 的应用程序接口 PL/SQL API。

本书内容新、丰富，注重基础知识与实际应用相结合，面向开发和编程人员，对于从事用 Java 进行编程的工程师和高校计算机应用专业的师生是一本不可多得的计算机技术教材。

本版光盘内容包括本版电子书。

系 列 书： 计算机专业技术丛书（3）
书 名： Java 编程教程 Java Programming Guide
总 策 划： 北京希望电子出版社
文本著作者： （美）克理省·夏尔玛 雪莉·薛金斯
责任编 辑： 周凤明
CD 制 作 者： 希望多媒体创作中心
CD 测 试 者： 希望多媒体测试部
出版、发行者： 北京希望电子出版社
地 址： 北京中关村大街 26 号，100080
网址： www.bhp.com.cn E-mail： lwm@hope.com.cn
电话： 010-62562329,62541992,62637101,62637102
010-62633308,62633309（发行）
010-62613322-215（门市） 010-62547735（编辑部）
经 销： 各地新华书店、软件连锁店
排 版： 希望图书输出中心
CD 生 产 者： 北京中新联光盘有限责任公司
文本印 刷 者： 北京媛明印刷厂
开本 / 规 格： 787 毫米×1092 毫米 1/16 开本 41.5 印张 969 千字
版 次 / 印 次： 2001 年 5 月第 1 版 2001 年 5 月第 1 次印刷
本 版 号： ISBN 7-900071-14-8/TP•13
定 价： 82.00 元（1CD，含配套书）

说明： 凡我社光盘配套图书若有缺页、倒页、脱页、自然破损，本社发行部负责调换

XDK for Java Packages

www.xdk.com | 800.826.4357 | XDK

XML Parser for Java

1.1 | Package Oracle.xml.parser.v2 Description

Class Summary

Interfaces

NSName

This interface provides Namespace support for Element and Attr names

NSResolver

This interface provides support for resolving Namespaces

XMLDocumentHandler

This interface extends the org.xml.sax.DocumentHandler interface.

XMLToken

Basic interface for XMLToken

Classes

AttrDecl

This class hold information about each attribute declared in an attribute list inthe Document Type Definition.

Package Oracle.xml.parser.v2

This class implements the default behaviour for the XMLDocumentHandler interface.

DOMParser

This class implements an eXtensible Markup Language (XML) 1.0 parser according to the World Wide Web Consortium (W3C) recommendation.

DTD

Implements the DOM DocumentType interface and holds the Document Type Definition information for an XML document.

ElementDecl NodeFactory

This class represents an element declaration in a DTD.

oraxsl

This class specifies methods to create various nodes of the DOM tree built during parsing.

The oraxsl class provides a command-line interface to applying stylesheets on multiple XML documents.

Continued

Class Summary

SAXAttrList	This class implements the SAX <code>AttributeList</code> interface and also provides Namespace support.
	This class implements an eXtensible Markup Language (XML) 1.0 SAX parser according to the World Wide Web Consortium (W3C) recommendation.
XMLAttr	This class implements the DOM <code>Attr</code> interface and holds information on each attribute of an element.
XMLCDATA	This class implements the DOM <code>CDataSection</code> interface.
XMLComment	This class implements the DOM <code>Comment</code> interface..Description
XMLDocument	This class implements the DOM <code>Document</code> interface, represents an entire XML document and serves the root of the Document Object Model tree.
XMLDocumentFragment	This class implements the DOM <code>DocumentFragment</code> interface.
XMLElement	This class implements the DOM <code>Element</code> interface.
XMLEntityReference	
XMLNode	Implements the DOM <code>Node</code> interface and serves as the primary datatype for the entire Document Object Model.
XMLParser	This class serves as a base class for the <code>DOMParser</code> and classes.
XMLPI	This class implements the DOM Processing Instruction interface.
XMLText	This class implements the DOM <code>Text</code> interface.
XMLTokenizer	This class implements an eXtensible Markup Language (XML) 1.0 parser according to the World Wide Web Consortium (W3C) recommendation.
XSLProcessor	This class provides methods to transform an input XML document using a previously constructed <code>XSLStylesheet</code> .
XSLStylesheet	The class holds XSL stylesheet information such as templates, keys, variables, and attribute sets.
Exceptions	
XMLParseException	Indicates that a parsing exception occurred while processing an XML document
XSELException	Indicates that an exception occurred during XSL tranformation

1.2 | oracle.xml.parser.v2 AttrDecl

Syntax

```
public class AttrDecl extends XMLNode implements
oracle.xml.parser.v2.XMLConstants, java.io.Serializable
java.lang.Object
|
+--XMLNode
|
+--oracle.xml.parser.v2.AttrDecl
```

All Implemented Interfaces

java.lang.Cloneable, org.w3c.dom.Node, java.io.Serializable,
oracle.xml.parser.v2.XMLConstants

Description

This class holds information about each attribute declared in an attribute list in the Document Type Definition.

Member Summary

Fields

CDATA	AttType - StringType - CDATA
DEFAULT	Attribute presence - Default
ENTITIES	AttType - TokenizedType - Entities
ENTITY	AttType - TokenizedType - Entity
ENUMERATION	AttType - EnumeratedType - Enumeration
FIXED	Attribute presence - Fixed
ID	AttType - TokenizedType - ID
IDREF	AttType - TokenizedType - ID reference
IDREFS	AttType - TokenizedType - ID references
IMPLIED	Attribute presence - Implied AttrDecl
NMTOKEN	AttType - TokenizedType - Name token
NMTOKENS	AttType - TokenizedType - Name tokens
NOTATION	AttType - EnumeratedType - Notation
REQUIRED	Attribute presence - Required

Methods

getAttrPresence()	Gets attribute presence
getAttrType()	Gets attribute type
getDefaultValue()	Gets attribute default value
getEnumerationValues()	Gets attribute values

Inherited Member Summary

Fields inherited from class XMLNode

AMP, ASTERISK, ATTRDECL, cANY, cATTRLIST, cCDATA, cCDATAEND, cCDATASTART, cCOMMENTEND, cCOMMENTSTART, cDECCREF, cDECLSTART, cDOCTYPE, cELEMENT, EMPTY, cEMPTYTAGEND, cENCODING, cENDTAGSTART, cENTITIES, cENTITY, cFIXED, cHEXCREF, cID, cIDREF, cIDREFS, cIGNORE, cIMPLIED, cINCLUDE, cNDATA, cNMOKEN, cNMOKENS, cNOTATION, COLON, COMMA, cPIEND, cPISTART, cPUBLIC, cREQUIRED, cSTANDALONE, cSYSTEM, cVERSION, cXML, DOUBLEQUOTE, ELEMENTDECL, EOF, EQ, ERROR, FATAL_ERROR, FDIGIT, FLETTER, FMISCNAME, FSTARTNAME, FWHITE SPACE, HASH, ICOUNT, ISTART, LEFTSQB, LPAREN, nameCDATA, nameCOMMENT, nameDOCUMENT, nameDOCUMENTFRAGMENT, nameENCODING, nameNameSpace, nameSpaceSeparator, nameSTANDALONE, nameTEXT, nameVERSION, nameXML, nameXMLLang, nameXMLNamespace, nameXMLNSNamespace, nameXMLSpace, nameXSLPI, NONVALIDATING, OR, PERCENT, PLUS, QMARK, QUOTE, RIGHTSQB, RPAREN, SEMICOLON, SLASH, TAGEND, TAGSTART, VALIDATING, WARNING

Fields inherited from interface oracle.xml.parser.v2.XMLConstants

AMP, ASTERISK, cANY, cATTRLIST, cCDATA, cCDATAEND, cCDATASTART, cCOMMENTEND, cCOMMENTSTART, cDECCREF, cDECLSTART, cDOCTYPE, cELEMENT, cEMPTY, cEMPTYTAGEND, cENCODING, cENDTAGSTART, cENTITIES, cENTITY, cFIXED, cHEXCREF, cID, cIDREF, cIDREFS, cIGNORE, cIMPLIED, cINCLUDE, cNDATA, cNMOKEN, cNMOKENS, cNOTATION, COLON, COMMA, cPIEND, cPISTART, cPUBLIC, cREQUIRED, cSTANDALONE, cSYSTEM, cVERSION, cXML, DOUBLEQUOTE, EOF, EQ, ERROR, FATAL_ERROR, FDIGIT, FLETTER, FMISCNAME, FSTARTNAME, FWHITE SPACE, HASH, ICOUNT, ISTART, LEFTSQB, LPAREN, nameCDATA, nameCOMMENT, nameDOCUMENT, nameDOCUMENTFRAGMENT, nameENCODING, nameNameSpace, nameSpaceSeparator, nameSTANDALONE, nameTEXT, nameVERSION, nameXML, nameXMLLang, nameXMLNamespace, nameXMLNSNamespace, nameXMLSpace, nameXSLPI, NONVALIDATING, OR, PERCENT, PLUS, QMARK, QUOTE, RIGHTSQB, RPAREN, SEMICOLON, SLASH, TAGEND, TAGSTART, VALIDATING, WARNING

Fields inherited from interface Node

NODE, ENTITY_NODE, ENTITY_REFERENCE_NODE, NOTATION_NODE, PROCESSING_INSTRUCTION_NODE, TEXT_NODE Methods inherited from class

*Continued***Inherited Member Summary**

`XMLNode appendChild(Node), cloneNode(boolean), getAttributes(), getChildNodes(),
getFirstChild(), getLastChild(), getNextSibling(), getNodeName(), getNodeType(),
getNodeValue(), getOwnerDocument(), getParentNode(), getPreviousSibling(),
hasChildNodes(), insertBefore(Node, Node), print(OutputStream), print(OutputStream, String)
.print(PrintWriter), removeChild (Node), replaceChild(Node, Node), selectNodes(String,
NSResolver), selectSingleNode (String, NSResolver), setNodeValue(String),
transformNode(XSLStylesheet), valueOf(String, NSResolver)` Methods inherited from class
`java.lang.Object` `clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait` Methods inherited from interface `Node` `appendChild(Node),
cloneNode(boolean), getAttributes(), getChildNodes(), getFirstChild(),
getLastChild(), getNextSibling(), getNodeName(), getNodeType(), getNodeValue(), getOwner
Document(), getParentNode(), getPreviousSibling(), hasChildNodes(), insertBefore(Node,
Node), removeChild (Node), replaceChild(Node, Node), setNodeValue(String)`

Fields***CDATA***

`public static final int CDATA`
`AttType - StringType - CDATA`

DEFAULT

`public static final int DEFAULT`
`Attribute presence - Default`

ENTITIES

`public static final int ENTITIES`
`AttType - TokenizedType - Entities`

ENTITY

`public static final int ENTITY`
`AttType - TokenizedType – Entity`

ENUMERATION

`public static final int ENUMERATION`
`AttType - EnumeratedType - Enumeration`

FIXED

public static final int FIXED
Attribute presence - Fixed

ID

public static final int ID
AttType - TokenizedType - ID

IDREF

public static final int IDREF
AttType - TokenizedType - ID reference

IDREFS

public static final int IDREFS
AttType - TokenizedType - ID references

IMPLIED

public static final int IMPLIED
Attribute presence - Implied

NMTOKEN

public static final int NMTOKEN
AttType - TokenizedType - Name token

NMTOKENS

public static final int NMTOKENS
AttType - TokenizedType - Name tokens

NOTATION

public static final int NOTATION
AttType - EnumeratedType - Notation.AttrDecl

REQUIRED

public static final int REQUIRED
Attribute presence – Required

Methods***getAttrPresence()***

```
public int getAttrPresence()  
Gets attribute presence
```

Returns

The presence of the attribute

getAttrType()

```
public int getAttrType()  
Gets attribute type
```

Returns

The type of the attribute

getDefaultValue()

```
public java.lang.String getDefaultValue()  
Gets attribute default value
```

Returns

The default value of the attribute

getEnumerationValues()

```
public java.util.Vector getEnumerationValues()  
Gets attribute values
```

Returns

The values of the attribute as an `Enumeration.DefaultXMLDocumentHandler`

1.3 | oracle.xml.parser.v2 DefaultXMLDocumentHandler

Syntax

```
public class DefaultXMLDocumentHandler extends org.xml.sax.HandlerBase implements  
XMLDocumentHandler
```

```
java.lang.Object
  |
  +--org.xml.sax.HandlerBase
    |
    +--oracle.xml.parser.v2.DefaultXMLDocumentHandler
```

Direct Known Subclasses:

XMLTokenizer

All Implemented Interfaces

org.xml.sax.DocumentHandler, org.xml.saxDTDHandler, org.xml.sax.EntityResolver,
org.xml.sax.ErrorHandler, XMLDocumentHandler

Description

This class implements the default behaviour for the XMLDocumentHandler interface.

Application writers can extend this class when they need to implement only part of the interface

Member Summary

Constructors

DefaultXMLDocumentHandler() Constructs a default document handler

Methods

cDATASection(char[], int, int) Receive notification of a CDATA Section.

comment(String) Receive notification of a comment.

endDoctype() Receive notification of end of the DTD.

endElement(NSName) Receive notification of the end of an element.

setDoctype(DTD) Receive notification of DTD.

setTextDecl(String, String) Receive notification of a Text XML Declaration.

setXMLDecl(String, String, String) Receive notification of an XML Declaration.

startElement(NSName, SAXAttrList) Receive notification of the beginning of an element.

Inherited Member Summary

Methods inherited from class HandlerBase

characters(char[], int, int), endDocument(), endElement(String), error(SAXParseException),
fatalError(SAXParseException), ignorableWhitespace(char[], int, int), notationDecl(String,
String, String), processingInstruction(String, String), resolveEntity(String, String),
setDocumentLocator(Locator), startDocument(), startElement(String, AttributeList),
unparsedEntityDecl(String, String, String, String),

warning(SAXParseException)

Methods inherited from class java.lang.Object

Continued

Inherited Member Summary

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface DocumentHandler

characters(char[], int, int), endDocument(), endElement(String),

ignorableWhitespace(char[], int, int), processingInstruction(String, String),

setDocumentLocator(Locator), startDocument(), startElement(String, AttributeList)

Methods inherited from interface EntityResolver

resolveEntity(String, String)

Methods inherited from interface DTDHandler

notationDecl(String, String, String), unparsedEntityDecl(String, String, String, String)

Methods inherited from interface ErrorHandler

error(SAXParseException), fatalError(SAXParseException), warning(SAXParseException)

Constructor***DefaultXMLDocumentHandler()***

public DefaultXMLDocumentHandler()

Constructs a default document handler

Methods***cDATASection(char[], int, int)***

public void cDATASection(char[] ch, int start, int length)

Receive notification of a CDATA Section.

The Parser will invoke this method once for each CDATA Section found.

Specified By

cDATASection(char[], int, int) in interface XMLDocumentHandler

Parameters

ch - The CDATA section characters.

start - The start position in the character array.

length - The number of characters to use from the character array.

Throws

org.xml.sax.SAXException - Any SAX exception, possibly wrapping another exception.

comment(String)

`public void comment(java.lang.String data)`

Receive notification of a comment.

The Parser will invoke this method once for each comment found: note that comment may occur before or after the main document element.

Specified By

`comment(String)` in interface XMLDocumentHandler

Parameters

`data` - The comment data, or null if none was supplied.

Throws

`org.xml.sax.SAXException` - Any SAX exception, possibly wrapping another exception.
`..DefaultXMLDocumentHandler`

endDoctype()

`public void endDoctype()`

Receive notification of end of the DTD.

Specified By

`endDoctype()` in interface XMLDocumentHandler

Throws

`org.xml.sax.SAXException` - Any SAX exception, possibly wrapping another exception.

endElement(NSName)

`public void endElement(NSName elem)`

Receive notification of the end of an element. The SAX parser will invoke this method at the end of every element in the XML document; there will be a corresponding `startElement()` event for every `endElement()` event (even when the element is empty).

By implementing this method instead of

`org.xml.sax.DocumentHandler.endElement`, SAX Applications can get the Namespace support provided by NSName.

Specified By

`endElement(NSName)` in interface `XMLDocumentHandler`

Parameters

`elem` - `NSName` object

Throws

`org.xml.sax.SAXException` - A `SAXException` could be thrown.

See Also

`org.xml.sax.DocumentHandler.endElement(String)`

setDoctype(DTD)

`public void setDoctype(DTD dtd)`

Receive notification of DTD. Sets the DTD.`DefaultXMLDocumentHandler`

Specified By

`setDoctype(DTD)` in interface `XMLDocumentHandler`

Throws

`org.xml.sax.SAXException` - Any SAX exception, possibly wrapping another exception.

setTextDecl(String, String)

`public void setTextDecl(java.lang.String version, java.lang.String encoding)` Receive notification of a Text XML Declaration.

The Parser will invoke this method once for each text XML Decl

Specified By

`setTextDecl(String, String)` in interface `XMLDocumentHandler`

Parameters

`version` - The version number (or null, if not specified)

`encoding` - The encoding name

Throws

`org.xml.sax.SAXException` - Any SAX exception, possibly wrapping another exception.

setXMLDecl(String, String, String)

```
public void setXMLDecl(java.lang.String version, java.lang.String standalone, java.lang.String encoding)
```

Receive notification of an XML Declaration.

The Parser will invoke this method once for XML Decl

Specified By

setXMLDecl(String, String, String) in interface XMLDocumentHandler

Parameters

version - The version number

standalone - The standalone value (or null, if not specified).DefaultXMLDocumentHandler

encoding - The encoding name (or null, if not specified)

Throws

org.xml.sax.SAXException - Any SAX exception, possibly wrapping another exception.

startElement(NSName, SAXAttrList)

```
public void startElement(NSName elem, SAXAttrList attrlist)Receive notification of the  
beginning of an element. The Parser will invoke this method at the beginning of every element in  
the XML document; there will be a corresponding endElement() event for every startElement()  
event (even when the element is empty). All of the element's content will be reported, in order,  
before the corresponding endElement() event.
```

By implementing this method instead of

org.xml.sax.DocumentHandler.startElement, SAX Applications can get the Namespace
support provided by NSName and SAXAttrList.

Specified By

startElement(NSName, SAXAttrList) in interface XMLDocumentHandler

Parameters

elem - NSName object

attrlist - SAXAttrList for the element

Throws

org.xml.sax.SAXException - A SAXException could be thrown.