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- [Prev Class](#)
- [Next Class](#)
- [Frames](#)
- [No Frames](#)
- [All Classes](#)
- [Summary:](#)
  - [Nested |](#)
  - [Enum Constants |](#)
  - [Field |](#)
  - [Method](#)
- [Detail:](#)
  - [Enum Constants |](#)
  - [Field |](#)
  - [Method](#)

jminusminus

## Enum TokenKind

- [java.lang.Object](#)
  - [java.lang.EnumTokenKind](#)
    - [jminusminus.TokenKind](#)
- All Implemented Interfaces:  
[Serializable](#), [Comparable<TokenKind>](#)

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```
enum TokenKind  
extends Enum<TokenKind>
```

An enum of token kinds. Each entry in this enum represents the kind of a token along with its image (string representation). When you add a new token to the scanner, you must also add an entry to this enum specifying the kind and image of the new token.

### • Enum Constant Summary

Enum Constants

Enum Constant and  
Description

**ABSTRACT**

**ASSIGN**

**BOOLEAN**

**CHAR**

**CHAR\_LITERAL**

CLASS

COMMA

DEC

DOT

ELSE

EOF

EQUAL

EXTENDS

FALSE

GT

IDENTIFIER

IF

IMPORT

INC

INSTANCEOF

INT

INT\_LITERAL

LAND

LBRACK

LCURLY

LE

LNOT

LPAREN

MINUS

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NEW

NULL

PACKAGE

PLUS

PLUS\_ASSIGN

PRIVATE

PROTECTED

PUBLIC

RBRACK

RCURLY

RETURN

RPAREN

SEMI

STAR

STATIC

STRING\_LITERAL

SUPER

THIS

TRUE

VOID

WHILE

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- Method Summary

Methods

Modifier and Type

Method and Description

String

image()

	Return the image of the token.
<code>String</code>	<b><code>toString()</code></b> Return the string representation of the token.
<code>static TokenKind</code>	<b><code>valueOf(String name)</code></b> Returns the enum constant of this type with the specified name.
<code>static TokenKind[]</code>	<b><code>values()</code></b> Returns an array containing the constants of this enum type, in the order they are declared.

- **Methods inherited from class `java.lang.Enum`**

`clone`, `compareTo`, `equals`, `finalize`, `getDeclaringClass`, `hashCode`, `name`, `ordinal`, `valueOf`

- **Methods inherited from class `java.lang.Object`**

`getClass`, `notify`, `notifyAll`, `wait`, `wait`, `wait`

- **Enum Constant Detail**

- **EOF**

`public static final TokenKind EOF`

- **ABSTRACT**

`public static final TokenKind ABSTRACT`

- **BOOLEAN**

`public static final TokenKind BOOLEAN`

- **CHAR**

`public static final TokenKind CHAR`

- **CLASS**

`public static final TokenKind CLASS`

- **ELSE**

`public static final TokenKind ELSE`

- **EXTENDS**

`public static final TokenKind EXTENDS`

- **FALSE**

`public static final TokenKind FALSE`

- **IF**

`public static final TokenKind IF`

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- **IMPORT**

```
public static finalTokenKind IMPORT
```

- **INSTANCEOF**

```
public static finalTokenKind INSTANCEOF
```

- **INT**

```
public static finalTokenKind INT
```

- **NEW**

```
public static finalTokenKind NEW
```

- **NULL**

```
public static finalTokenKind NULL
```

- **PACKAGE**

```
public static finalTokenKind PACKAGE
```

- **PRIVATE**

```
public static finalTokenKind PRIVATE
```

- **PROTECTED**

```
public static finalTokenKind PROTECTED
```

- **PUBLIC**

```
public static finalTokenKind PUBLIC
```

- **RETURN**

```
public static finalTokenKind RETURN
```

- **STATIC**

```
public static finalTokenKind STATIC
```

- **SUPER**

```
public static finalTokenKind SUPER
```

- **THIS**

```
public static finalTokenKind THIS
```

- **TRUE**

```
public static finalTokenKind TRUE
```

- **VOID**

```
public static finalTokenKind VOID
```

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- **WHILE**

```
public static finalTokenKind WHILE
```

- **PLUS**

```
public static finalTokenKind PLUS
```

- **ASSIGN**

```
public static finalTokenKind ASSIGN
```

- **DEC**

```
public static finalTokenKind DEC
```

- **EQUAL**

```
public static finalTokenKind EQUAL
```

- **GT**

```
public static finalTokenKind GT
```

- **INC**

```
public static finalTokenKind INC
```

- **LAND**

```
public static finalTokenKind LAND
```

- **LE**

```
public static finalTokenKind LE
```

- **LNOT**

```
public static finalTokenKind LNOT
```

- **MINUS**

```
public static finalTokenKind MINUS
```

- **PLUS\_ASSIGN**

```
public static finalTokenKind PLUS_ASSIGN
```

- **STAR**

```
public static finalTokenKind STAR
```

- **LPAREN**

```
public static finalTokenKind LPAREN
```

- **RPAREN**

```
public static finalTokenKind RPAREN
```

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- **LCURLY**

```
public static final TokenKind LCURLY
```

- **RCURLY**

```
public static final TokenKind RCURLY
```

- **LBRACK**

```
public static final TokenKind LBRACK
```

- **RBRACK**

```
public static final TokenKind RBRACK
```

- **SEMI**

```
public static final TokenKind SEMI
```

- **COMMA**

```
public static final TokenKind COMMA
```

- **DOT**

```
public static final TokenKind DOT
```

- **IDENTIFIER**

```
public static final TokenKind IDENTIFIER
```

- **INT\_LITERAL**

```
public static final TokenKind INT_LITERAL
```

- **CHAR\_LITERAL**

```
public static final TokenKind CHAR_LITERAL
```

- **STRING\_LITERAL**

```
public static final TokenKind STRING_LITERAL
```

- **Method Detail**

- **values**

```
public static TokenKind[] values()
```

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

```
for (TokenKind c : TokenKind.values())  
    System.out.println(c);
```

**Returns:**

an array containing the constants of this enum type, in the order they are declared

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- **valueOf**

```
public static TokenKind valueOf(String name)
```

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

**Parameters:**

name - the name of the enum constant to be returned.

**Returns:**

the enum constant with the specified name

**Throws:**

`IllegalArgumentException` - if this enum type has no constant with the specified name

`NullPointerException` - if the argument is null

- **image**

```
public String image()
```

Return the image of the token.

**Returns:**

the token's image.

- **toString**

```
public String toString()
```

Return the string representation of the token.

**Overrides:**

`toString` in class `Enum<TokenKind>`

**Returns:**

the token's string representation.

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- [Next Class](#)

- [Frames](#)
- [No Frames](#)

- [All Classes](#)

- [Summary:](#)
- [Nested |](#)
- [Enum Constants |](#)
- [Field |](#)
- [Method](#)

- [Detail:](#)
- [Enum Constants |](#)
- [Field |](#)
- [Method](#)



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