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jminusminus

Class Token

- java.lang.Object

- jminusminus.Token

```
public class Token
extends Object
```

Describes the input token stream.

- **Field Summary**

Fields

Modifier and Type	Field and Description
int	**beginColumn** beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
int	**beginLine** beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
int	**endColumn** beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.
int	**endLine**

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

String	**image** The string image of the token.	
int	**kind** An integer that describes the kind of this token.	
Token	**next** A reference to the next regular (non-special) token from the input stream.	
Token	**specialToken** This field is used to access special tokens that occur prior to this token, but after the immediately preceding regular (non-special) token.	

- **Constructor Summary**

Constructors

Constructor and Description
Token()

- **Method Summary**

Methods

Modifier and Type	Method and Description
static Token	**newToken**(int ofKind) Returns a new Token object, by default.
String	**toString**() Returns the image.

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

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

- **Field Detail**

  - **kind**

  publicint kind

  An integer that describes the kind of this token. This numbering system is determined by JavaCCParser, and a table of these numbers is stored in the file ...Constants.java.

  - **beginLine**

  publicint beginLine

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

- **beginColumn**

```
publicint beginColumn
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

- **endLine**

```
publicint endLine
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

- **endColumn**

```
publicint endColumn
```

beginLine and beginColumn describe the position of the first character of this token; endLine and endColumn describe the position of the last character of this token.

- **image**

```
publicString image
```

The string image of the token.

- **next**

```
publicToken next
```

A reference to the next regular (non-special) token from the input stream. If this is the last token from the input stream, or if the token manager has not read tokens beyond this one, this field is set to null. This is true only if this token is also a regular token. Otherwise, see below for a description of the contents of this field.

- **specialToken**

```
publicToken specialToken
```

This field is used to access special tokens that occur prior to this token, but after the immediately preceding regular (non-special) token. If there are no such special tokens, this field is set to null. When there are more than one such special token, this field refers to the last of these special tokens, which in turn refers to the next previous special token through its specialToken field, and so on until the first special token (whose specialToken field is null). The next fields of special tokens refer to other special tokens that immediately follow it (without an intervening regular token). If there is no such token, this field is null.

- **Constructor Detail**

  - **Token**

```
publicToken()
```

- **Method Detail**

    - **toString**

`public String toString()`

Returns the image.
Overrides:
    `toString` in class `Object`

    - **newToken**

`public static final Token newToken(int ofKind)`

Returns a new Token object, by default. However, if you want, you can create and return subclass objects based on the value of ofKind. Simply add the cases to the switch for all those special cases. For example, if you have a subclass of Token called IDToken that you want to create if ofKind is ID, simlpy add something like : case MyParserConstants.ID : return new IDToken(); to the following switch statement. Then you can cast matchedToken variable to the appropriate type and use it in your lexical actions.

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