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jminusminus

Class TypeName

- [java.lang.Object](#)
 - [jminusminus.Type](#)
 - [jminusminus.TypeName](#)

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```
class TypeName
extends Type
```

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Any reference type that can be denoted as a (possibly qualified) identifier. For now, this includes only class types.

- **Field Summary**

- **Fields inherited from class [jminusminus.Type](#)**

[ANY](#), [BOOLEAN](#), [BOXED_BOOLEAN](#), [BOXED_CHAR](#), [BOXED_INT](#),
[CHAR](#), [CONSTRUCTOR](#), [INT](#), [NULLTYPE](#), [OBJECT](#), [STRING](#), [VOID](#)

- **Constructor Summary**

Constructors

Constructor and Description

```
TypeName(int line, String name)
```

Construct an TypeName given its line number, and string spelling out its fully qualified name.

- **Method Summary**

Methods

Modifier and Type	Method and Description
String	jvmName() Return the JVM name for this (identifier) type.
int	line() Return the line in which the identifier occurs in the source file.
Type	resolve(Context context) Resolve this type in the given context.
String	simpleName() Return the simple name for this type.
String	toDescriptor() Return the JVM descriptor for this type.
String	toString() Return the Java representation of this type.

- **Methods inherited from class `jminusminus.Type`**

`abstractMethods, argTypesAsString, argTypesMatch, argumentTypeForAppend, checkAccess, checkAccess, checkAccess, classFor, componentType, constructorFor, equals, fieldFor, isAbstract, isArray, isFinal, isInterface, isJavaAssignableFrom, isPrimitive, isReference, matchesExpected, methodFor, mustMatchExpected, mustMatchOneOf, packageName, setClassRep, signatureFor, superClass, typeFor`

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

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

- **Constructor Detail**

- **TypeName**

```
public TypeName(int line,
                String name)
```

Construct an TypeName given its line number, and string spelling out its fully qualified name.

Parameters:

line - the line in which the identifier occurs in the source file.
name - fully qualified name for the identifier.

- **Method Detail**

- **line**

```
public int line()
```

Return the line in which the identifier occurs in the source file.

Returns:

the line number.

- **jvmName**

publicStringjvmName()

Return the JVM name for this (identifier) type.

Overrides:

jvmName in class Type

Returns:

the JVM name.

- **toDescriptor**

publicStringtoDescriptor()

Return the JVM descriptor for this type.

Overrides:

toDescriptor in class Type

Returns:

the descriptor.

- **toString**

publicStringtoString()

Return the Java representation of this type. Eg, java.lang.String.

Overrides:

toString in class Type

Returns:

the qualified name.

- **simpleName**

publicStringsimpleName()

Return the simple name for this type. Eg, String for java.lang.String.

Overrides:

simpleName in class Type

Returns:

simple name.

- **resolve**

publicTyperesolve(Contextcontext)

Resolve this type in the given context. Notice that this has meaning only for TypeName and ArrayTypeName, where names are replaced by real types. Names are looked up in the context.

Overrides:

resolve in class Type

Parameters:

context - context in which the names are resolved.

Returns:

the resolved type.

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