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jminusminus

Class JAST

- [java.lang.Object](#)
 - [jminusminus.AST](#)
- Direct Known Subclasses:
 - [JClassDeclaration](#), [JCompilationUnit](#), [JFieldDeclaration](#), [JFormalParameter](#), [JMethodDeclaration](#), [JStatement](#), [JVariableDeclarator](#)

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```
abstract class JAST
extends Object
```

The abstract superclass of all nodes in the abstract syntax tree (AST).

- **Field Summary**

Fields	
Modifier and Type	Field and Description
static JCompilationUnit	compilationUnit Current compilation unit (set in JCompilationUnit()).
protected int	line Line in which the source for the AST was found.

- **Constructor Summary**

Constructors	
Modifier	Constructor and Description
protected	JAST (int line) Construct an AST node the given its line number in the source

file.

- **Method Summary**

Methods

**Modifier and
Type**

Method and Description

abstract
JAST

analyze(Context context)
Perform semantic analysis on this AST.

abstract
void

codegen(CLEmitter output)
Perform code generation for this AST.

int

line()
Return the line in which the source for the AST was found.

void

partialCodegen(Context context,
CLEmitter partial)
Generate a partial class for this type, reflecting only the member
information required to do analysis.

abstract
void

writeToStdOut(PrettyPrinter p)
Write the information pertaining to this AST to STDOUT.

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

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

- **Field Detail**

- **compilationUnit**
public static JCompilationUnit compilationUnit

Current compilation unit (set in JCompilationUnit()).

- **line**
protected int line

Line in which the source for the AST was found.

- **Constructor Detail**

- **JAST**
protected JAST(int line)

Construct an AST node the given its line number in the source file.

Parameters:

Line - line in which the source for the AST was found.

- **Method Detail**

- **line**
public int line()

Return the line in which the source for the AST was found.

Returns:

the line number.

- **analyze**

```
public abstract JAST analyze(Context context)
```

Perform semantic analysis on this AST. In some instances a new returned AST reflects surgery.

Parameters:

context - the environment (scope) in which code is analyzed.

Returns:

a (rarely modified) AST.

- **partialCodegen**

```
public void partialCodegen(Context context,
                          CLEmitter partial)
```

Generate a partial class for this type, reflecting only the member information required to do analysis.

Parameters:

context - the parent (class) context.

partial - the code emitter (basically an abstraction for producing the partial class).

- **codegen**

```
public abstract void codegen(CLEmitter output)
```

Perform code generation for this AST.

Parameters:

output - the code emitter (basically an abstraction for producing the class file).

- **writeToStdOut**

```
public abstract void writeToStdOut(PrettyPrinter p)
```

Write the information pertaining to this AST to STDOUT.

Parameters:

p - for pretty printing with indentation.

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