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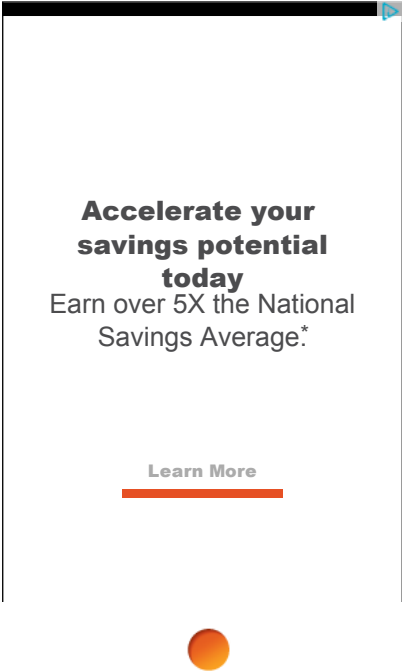
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Java Code Examples for *org.eclipse.jdt.core.dom.ASTNode*

The following are 21 Jave code examples that show how to use the [org.eclipse.jdt.core.dom.ASTNode](#) class. These examples are extracted from open source projects. You can click to vote up the examples you like. Your votes will be used in an intelligent system to get more and better code examples. Thanks!

Example 1



8

From project *besouro*, under directory */src/besouro/measure/*, in source file *JavaStatementMeter.java*

```
public JavaStatementMeter measureJavaFile(IFile file){
    ICompilationUnit cu=(ICompilationUnit)JavaCore.create(file);
    ASTParser parser=ASTParser.newParser(AST.JLS3);
    parser.setSource(cu);
    parser.setResolveBindings(true);
    ASTNode root=parser.createAST(null);
    JavaStatementMeter meter=new JavaStatementMeter();
    root.accept(meter);
    return meter;
}
```

Example 2



8

From project *CIDE*, under directory */CIDE_Export_JDTBase/src/de/ovgu/cide/export/*, in source file *CopiedNaiveASTFlattener.java*

```
/**
 * Appends the text representation of the given modifier flags, followed by a single space. Used for 3.0 modifiers and annotations.
 * @param ext the list of modifier and annotation nodes (element type: <code>IExtendedModifiers</code>)
 */
protected void printModifiers(List ext){
    for (Iterator it=ext.iterator(); it.hasNext(); ) {
        ASTNode p=(ASTNode)it.next();
        p.accept(this);
        this.buffer.append(" ");
    }
}
```



Example 3



From project *CIDE*, under directory */CIDE_Export_JDTBase/src/de/ovgu/cide/export/*, in source file *CopiedNaiveASTFlattener.java*

```
public boolean visit(Javadoc node){
    printIndent();
    this.buffer.append("/** ");
    for (Iterator it=node.tags().iterator(); it.hasNext(); ) {
        ASTNode e=(ASTNode)it.next();
        e.accept(this);
    }
    this.buffer.append("\n */\n");
    return false;
}
```

Example 4



From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakColorChecker.java*

```
@Override protected boolean visitNode(ASTNode node){
    if (!colorManager.getOwnColors(node).isEmpty()) {
        Set<IFeature> nodeColors=getColors(node);
        ASTNode parent=node.getParent();
        if (parent != null && !nodeColors.equals(colorManager.getColors(parent))) {
            UnsupportedColoring er=isSupportedColoring(node);
            if (er != null) unsupportedColorings.add(er);
        }
    }
    return super.visitNode(node);
}
```

Example 5



From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakFeatureRefactorer.java*

```
protected void addStatements(List<Statement> newStatements,List<Statement> target){
    for ( Statement stmt : newStatements) {
        ASTNode excluded=RefactoringUtils.getSubtreeRuleExceptionNode(stmt,colorManager,derivative);
        if (excluded != null) {
        }
        target.add(stmt);
    }
}
```

Example 6



From project *android_sdk*, under directory */eclipse/plugins/com.android.ide.eclipse.adt/src/com/android/ide/eclipse/adt/internal/refactorings/extractstring/*, in source file *ReplaceStringsVisitor.java*

```
@SuppressWarnings("unchecked") @Override public boolean visit(StringLiteral node){
    if (node.getLiteralValue().equals(mOldString)) {
        boolean useGetResource=false;
        useGetResource=examineVariableDeclaration(node) || examineMethodInvocation(node);
        Name qualifierName=mAst.newName(mRQualifier + ".string");
        SimpleName idName=mAst.newSimpleName(mXmlId);
        ASTNode newNode=mAst.newQualifiedName(qualifierName,idName);
        String title="Replace string by ID";
        if (useGetResource) {
            Expression context=methodHasContextArgument(node);
            if (context == null && !isClassDerivedFromContext(node)) {
                context=findContextFieldOrMethod(node);
                if (context == null) {
                    context=mAst.newSimpleName("Context");
                }
            }
        }
        MethodInvocation mi2=mAst.newMethodInvocation();
        mi2.setName(mAst.newSimpleName("getString"));
        mi2.setExpression(context);
        mi2.arguments().add(newNode);
        newNode=mi2;
        title="Replace string by Context.getString(R.string...)";
    }
    TextEditGroup editGroup=new TextEditGroup(title);
    mEditGroups.add(editGroup);
    mRewriter.replace(node,newNode,editGroup);
}
```

```

    }
    return super.visit(node);
}

```

Example 7



7

From project *android_sdk*, under directory */eclipse/plugins/com.android.ide.eclipse.adt/src/com/android/ide/eclipse/adt/internal/refactorings/extractstring/*, in source file *ReplaceStringsVisitor.java*

```

/**
 * Examines if the StringLiteral is part of of an assignment to a string, e.g. String foo = id. The parent fragment is of syntax "var = expr" or "var[
 */
private boolean examineVariableDeclaration(StringLiteral node){
    VariableDeclarationFragment fragment=findParentClass(node,VariableDeclarationFragment.class);
    if (fragment != null) {
        ASTNode parent=fragment.getParent();
        Type type=null;
        if (parent instanceof VariableDeclarationStatement) {
            type=((VariableDeclarationStatement)parent).getType();
        }
        else if (parent instanceof VariableDeclarationExpression) {
            type=((VariableDeclarationExpression)parent).getType();
        }
        if (type instanceof SimpleType) {
            return isJavaString(type.resolveBinding());
        }
    }
    return false;
}

```

Example 8



7

From project *CIDE*, under directory */CIDE_Export_JDTBase/src/de/ovgu/cide/export/*, in source file *CopiedNaiveASTFlattener.java*

```

public boolean visit(TagElement node){
    if (node.isNested()) {
        this.buffer.append("{");
    }
    else {
        this.buffer.append("\n * ");
    }
    boolean previousRequiresWhiteSpace=false;
    if (node.getTagName() != null) {
        this.buffer.append(node.getTagName());
        previousRequiresWhiteSpace=true;
    }
    boolean previousRequiresNewLine=false;
    for (Iterator it=node.fragments().iterator(); it.hasNext(); ) {
        ASTNode e=(ASTNode)it.next();
        boolean currentIncludesWhiteSpace=(e instanceof TextElement);
        if (previousRequiresNewLine && currentIncludesWhiteSpace) {
            this.buffer.append("\n * ");
        }
        previousRequiresNewLine=currentIncludesWhiteSpace;
        if (previousRequiresWhiteSpace && !currentIncludesWhiteSpace) {
            this.buffer.append(" ");
        }
        e.accept(this);
        previousRequiresWhiteSpace=!currentIncludesWhiteSpace && !(e instanceof TagElement);
    }
    if (node.isNested()) {
        this.buffer.append("}");
    }
    return false;
}

```

Example 9



7

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *FieldMethodVisibilityLifter.java*

```

private boolean visitName(Name node){
    IBinding binding=node.resolveBinding();
    if (binding == null) return true;
    ASTNode declaration=compUnit.findDeclaringNode(binding);
    if (declaration instanceof MethodDeclaration) {
        makeProtected((MethodDeclaration)declaration);
    }
    else if (declaration instanceof VariableDeclarationFragment) {

```

```

VariableDeclarationFragment variableFragment=(VariableDeclarationFragment)declaration;
if (variableFragment.getParent() instanceof FieldDeclaration) {
    FieldDeclaration fieldDecl=(FieldDeclaration)variableFragment.getParent();
    makeProtected(fieldDecl);
}
}
return false;
}

```

Example 10



7

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakHookMethodHelper.java*

```

private List<Name> calcThrownExceptions(MethodDeclaration method,List<Statement> statements2){
    ArrayList<Name> result=new ArrayList<Name>();
    result.addAll(method.thrownExceptions());
    ASTNode node=statements2.get(0);
    while (node != null && node != method) {
        if (node.getLocationInParent() == TryStatement.BODY_PROPERTY) {
            TryStatement tryStmt=(TryStatement)node.getParent();
            for (CatchClause cc : (List<CatchClause>)tryStmt.catchClauses()) {
                Type exceptionType=cc.getException().getType();
                if (!containsException(result,exceptionType.toString())) if (!exceptionType.toString().startsWith("Return")) result.add(method
            )
        }
        node=node.getParent();
    }
    return result;
}

```

Example 11



5

From project *android_sdk*, under directory */eclipse/plugins/com.android.ide.eclipse.adt/src/com/android/ide/eclipse/adt/internal/refactorings/extractstring/*, in source file *ReplaceStringsVisitor.java*

```

/**
 * Walks up the node hierarchy and returns the first ASTNode of the requested class. Only look at parents. Implementation note: this is a generic method
 */
@SuppressWarnings("unchecked") private <T extends ASTNode>T findParentClass(ASTNode node,Class<T> clazz){
    for (node=node.getParent(); node != null; node=node.getParent()) {
        if (node.getClass().equals(clazz)) {
            return (T)node;
        }
    }
    return null;
}

```

Example 12



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/ast/*, in source file *JakClassRefinement.java*

```

public void initializeFromType(TypeDeclaration type){
    modifiers.clear();
    modifiers.addAll(ASTNode.copySubtrees(ast,type.modifiers()));
    isInterface=type.isInterface();
    superInterfaceTypes.clear();
    superType=null;
    typeParameters.clear();
    typeParameters.addAll(ASTNode.copySubtrees(ast,type.typeParameters()));
    name=(SimpleName)ASTNode.copySubtree(ast,type.getName());
}

```

Example 13



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/ast/*, in source file *JakClassRefinement.java*

```

JakClassRefinement clone(AST target){
    JakClassRefinement result=new JakClassRefinement(parent,target,options);
    result.javadoc=(this.javadoc);
}

```

```

result.name=ast.newSimpleName(name.getIdentifier());
result.isInterface=isInterface;
result.modifiers.addAll(ASTNode.copySubtrees(target,modifiers));
result.typeParameters().addAll(ASTNode.copySubtrees(target,typeParameters()));
result.superInterfaceTypes().addAll(ASTNode.copySubtrees(target,superInterfaceTypes()));
result.superType=(Type)ASTNode.copySubtree(target,result.superType);
result.refinements.addAll(ASTNode.copySubtrees(target,refinements));
result.introductions.addAll(ASTNode.copySubtrees(target,introductions));
result.fields.addAll(ASTNode.copySubtrees(target,fields));
return result;
}

```

Example 14



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/ast/*, in source file *JakClassRefinement.java*

```

public void accept(ASTVisitor visitor){
    if (visitor instanceof IJakASTVisitor) {
        boolean visitChildren=((IJakASTVisitor)visitor).visit(this);
        if (visitChildren) {
            for (ASTNode n : modifiers) n.accept(visitor);
            name.accept(visitor);
            for (ASTNode n : typeParameters) n.accept(visitor);
            for (ASTNode n : superInterfaceTypes) n.accept(visitor);
            for (ASTNode n : fields) n.accept(visitor);
            for (ASTNode n : introductions) n.accept(visitor);
            for (ASTNode n : refinements) n.accept(visitor);
            if (!options.getMethodObjectsInStaticTopLevelClass()) for (JakClassRefinement n : innerClassRefinements.values()) n.accept(vis
        }
        ((IJakASTVisitor)visitor).endVisit(this);
    }
}

```

Example 15



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *ExportJavaFileJob.java*

```

private void createFilesForInnerClasses(List<BodyDeclaration> bodyDeclarations,PackageDeclaration packageDecl,List<ImportDeclaration> imports,IContain
List<TypeDeclaration> innerClasses=extractInnerClasses(bodyDeclarations);
for (TypeDeclaration innerClass : innerClasses) {
    CompilationUnit container=innerClass.getAST().newCompilationUnit();
    if (packageDecl != null) container.setPackage((PackageDeclaration)ASTNode.copySubtree(innerClass.getAST(),packageDecl));
    container.imports().addAll(ASTNode.copySubtrees(innerClass.getAST(),imports));
    container.types().add(innerClass);
    MethodObjectHelper.stripMethodObjectAnnotation(innerClass);
    MethodObjectHelper.stripStaticModifier(innerClass.modifiers());
    createFileForBase(innerClass,container,targetDirectory,targetLayer);
}
}

```

Example 16



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakColorChecker.java*

```

private UnsupportedColoring isSupportedColoring(ASTNode node){
    if (node instanceof CompilationUnit) return null;
    if (isImportStatement(node)) return null;
    if (isMovableType(node)) return null;
    if (isExtendsOrImplements(node)) return null;
    if (isRefinableMethodOrField(node)) return null;
    if (isSubtreeRuleException(node)) return new UnsupportedColoring(node,"Multiple exceptions from subtree rule in one node");
    if (isAllStatements(node)) return null;
    if (isAroundAdvice(node)) return null;
    UnsupportedColoring r=isStatementExtractableWithHook(node);
    if (r != dummy) return r;
    if (isStatementOutsideBlock(node)) return new UnsupportedColoring(node,"Colored statement must be placed in block");
    return new UnsupportedColoring(node,"Export not supported (too fine granularity?)");
}

```

Example 17



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakColorChecker.java*

```
private boolean isExtendsOrImplements(ASTNode node){
    if (isMovableType(node.getParent())) {
        if (node.getLocationInParent() == TypeDeclaration.SUPER_INTERFACE_TYPES_PROPERTY) {
            return true;
        }
        if (node.getLocationInParent() == TypeDeclaration.SUPERCLASS_TYPE_PROPERTY) {
            return true;
        }
    }
    return false;
}
```

Example 18



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakFeatureRefactorer.java*

```
private boolean refactorAllStatements(MethodDeclaration method){
    if (!RefactoringUtils.canRefactorAllStatements(method,colorManager,derivative)) return false;
    AST ast=method.getAST();
    MethodDeclaration refinement=(MethodDeclaration)ASTNode.copySubtree(ast,method);
    List<Statement> baseBody=method.getBody().statements();
    List<Statement> refinementBody=refinement.getBody().statements();
    Statement exception=RefactoringUtils.findSubtreeRuleException(baseBody,colorManager,derivative);
    if (exception != null) {
        Statement superCall=createSuperCall(method,ast,false,null);
        replaceStatement(exception,superCall);
    }
    List<Statement> baseStatements=new ArrayList<Statement>(baseBody);
    baseBody.clear();
    refinementBody.clear();
    refinementBody.addAll(baseStatements);
    if (exception != null) {
        RefactoringUtils.addStatementOrBlockContent(exception,baseBody);
    }
    else {
        Statement superCall=createSuperCall(method,ast,true,null);
        if (superCall != null) refinementBody.add(superCall);
    }
    targetCompUnit.getRefinement().addRefinementForMethod(method,refinement);
    return true;
}
```

Example 19



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *JakFeatureRefactorer.java*

```
private void extractAroundMethodRefinement(MethodDeclaration method,List<Statement> refactorFirst,List<Statement> refactorLast){
    AST ast=method.getAST();
    MethodDeclaration copiedMethod=(MethodDeclaration)ASTNode.copySubtree(ast,method);
    Statement superCall=createSuperCall(method,ast,refactorLast.isEmpty(),null);
    List<Statement> targetBody=copiedMethod.getBody().statements();
    targetBody.clear();
    targetBody.addAll(refactorFirst);
    if (superCall != null) targetBody.add(superCall);
    targetBody.addAll(refactorLast);
    if (!refactorLast.isEmpty() && !RefactoringUtils.isVoid(method.getReturnType2())) {
        targetBody.add(createReturnStatement(ast));
    }
    targetCompUnit.getRefinement().addRefinementForMethod(method,copiedMethod);
}
```

Example 20



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *MethodObjectHelper.java*

```
/**
 * creates a constructor with the parameter of the methods arguments. all parameters are assigned to fields with the same name that are created as well
 * @param methodObjectClass
 * @param method
 * @param isStatic
 */
private static void createConstructor(TypeDeclaration moClass,MethodDeclaration method,boolean isStatic){
    if (method.parameters().isEmpty() && !isStatic) return;
    AST ast=moClass.getAST();
```

```

MethodDeclaration constructorDecl=ast.newMethodDeclaration();
constructorDecl.setConstructor(true);
constructorDecl.setName(ast.newSimpleName(moClass.getName().getIdentifier()));
constructorDecl.setBody(ast.newBlock());
List<SingleVariableDeclaration> parameterList=new ArrayList<SingleVariableDeclaration>(method.parameters());
if (isStatic) {
    SingleVariableDeclaration _thisVar=ast.newSingleVariableDeclaration();
    _thisVar.setName(ast.newSimpleName("_this"));
    TypeDeclaration mainClass=RefactoringUtils.getContainingType(method);
    _thisVar.setType(ast.newSimpleType(ast.newSimpleName(mainClass.getName().getIdentifier())));
    parameterList.add(0,_thisVar);
}
for ( SingleVariableDeclaration p : parameterList) {
    String varName=p.getName().getIdentifier();
    constructorDecl.parameters().add(ASTNode.copySubtree(ast,p));
    addField(moClass,p.getType(),varName,null);
    FieldAccess fieldAccess=ast.newFieldAccess();
    fieldAccess.setExpression(ast.newThisExpression());
    fieldAccess.setName(ast.newSimpleName(varName));
    Assignment assignment=ast.newAssignment();
    assignment.setLeftHandSide(fieldAccess);
    assignment.setRightHandSide(ast.newSimpleName(varName));
    constructorDecl.getBody().statements().add(ast.newExpressionStatement(assignment));
}
moClass.bodyDeclarations().add(0,constructorDecl);
}

```

Example 21



5

From project *CIDE*, under directory */CIDE_Export_Physical/src/de/ovgu/cide/export/physical/ahead/*, in source file *MethodObjectHelper.java*

```

/**
 * @param methodObjectClass
 * @param type original ASTNode is sufficient (is copied internally)
 * @param name
 * @param colors null if not used
 */
private static void addField(TypeDeclaration methodObjectClass,Type type,String name,Set<IFeature> colors){
    AST ast=type.getAST();
    VariableDeclarationFragment fragment=ast.newVariableDeclarationFragment();
    fragment.setName(ast.newSimpleName(name));
    FieldDeclaration field=ast.newFieldDeclaration(fragment);
    field.setType((Type)ASTNode.copySubtree(ast,type));
    Modifier modifier=ast.newModifier(Modifier.ModifierKeyword.PROTECTED_KEYWORD);
    field.modifiers().add(modifier);
    methodObjectClass.bodyDeclarations().add(field);
}

```

The examples above are mined from open source projects. Each example has a reference to its resource, but the http link may not be provided due to the evolution of the project.