

# Tooling for IntelliJ Platform Plugins

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# IntelliJ Platform

- Published 2009
- Apache 2
- Java, Kotlin, Groovy
- Swing
- *Not* generic application framework
- From Renamer Plugin to Polyglot IDE

# Learn & Contribute

- [github.com/JetBrains/intellij-community](https://github.com/JetBrains/intellij-community)
- [jetbrains.org/intellij/sdk/docs](https://jetbrains.org/intellij/sdk/docs)
- [Forum](#) - monitored by JetBrains developers
- [Gitter](#) - run by community
- [blog.jetbrains.com/platform](https://blog.jetbrains.com/platform) - News & HowTo's
- [@JBPlatform](#)

# Plugins

- >3200 plugins
- [plugins.jetbrains.com](https://plugins.jetbrains.com/)
- Marketplace (EAP)

# IDEs

- 11 by JetBrains
  - Rider: frontend for ReSharper
- Android Studio by Google
- CUBA.studio CUBA.platform

# Tooling for Developers

- Plugin DevKit
- Gradle IntelliJ Plugin
- GrammarKit
- Plugin Verifier

# Plugin Verifier

IU-191.4738.6

Found 105 compatibility problems and 1 warning

105 possible compatibility problems

**Struts 2 0.41** may be binary incompatible with **IU-191.4738.6** due to the following problems

Method not found (*60 problems*)

Class not found (*23 problems*)

Abstract method is not implemented (*13 problems*)

Field not found (*5 problems*)

Incompatible change of interface to class (*2 problems*)

Incompatible change of super interface to class (*1 problem*)

Package not found (*1 problem*)

87 deprecated API usages

**Struts 2 0.41** uses deprecated API, which may be removed in future releases leading to binary and

# IntelliJ API Watcher

JetBrains internal tool

The screenshot displays the 'Find External Usages' window in IntelliJ IDEA. The search criteria is 'External usages of JTextField'. The results are organized into a tree view. Under 'Field declaration (380 usages)', there are several categories: AtlasTool:2.3.2.4 (28640) (2 usages), CUBA:7.1-183 (54625) (13 usages), DeltaUtils:1.6.0 (13752) (3 usages), and MaxCompute Studio:3.0.5 (53924) (6 usages). Under 'Python Community Edition:2019.1.191.4738.6 (54762) (3 usages)', there are three specific field declarations: com.jetbrains.python.debugger.PyDebuggerConfigurable.myAttachProcessFilter : JTextField, org.jetbrains.plugins.ipnb.configuration.IpnbConfigurable.2.val\$field : JTextField, and org.jetbrains.plugins.ipnb.configuration.IpnbConfigurable.myUsernameField : JTextField. Finally, there is a category for 'Python:2019.1.191.4738.6 (54754) (11 usages)'.

Find External Usages: External usages of JTextField ×

- JBTextField
- Found external usages (2258 usages)
  - Field declaration (380 usages)
    - AtlasTool:2.3.2.4 (28640) (2 usages)
    - CUBA:7.1-183 (54625) (13 usages)
    - DeltaUtils:1.6.0 (13752) (3 usages)
    - MaxCompute Studio:3.0.5 (53924) (6 usages)
  - Python Community Edition:2019.1.191.4738.6 (54762) (3 usages)
    - com.jetbrains.python.debugger.PyDebuggerConfigurable.myAttachProcessFilter : JTextField
    - org.jetbrains.plugins.ipnb.configuration.IpnbConfigurable.2.val\$field : JTextField
    - org.jetbrains.plugins.ipnb.configuration.IpnbConfigurable.myUsernameField : JTextField
  - Python:2019.1.191.4738.6 (54754) (11 usages)



# Exception Analyzer

## JetBrains internal tool

Exception Analyzer: My Issues Analyzer Flags +

Shortlist  With fixed (3) IDEA 2018.1

Id	Title	Source	Since	Until	Fixed	Reports	Comments
EA-134...	IAE: NavigationGutterIconBuilder.setTargets	Platform	Dev	Dev		1	
EA-133...	assert: StubParentStrategy\$.getXmlElement	Platform	183.4886	191.4305		5	
EA-123...	SIOOBE: InterceptorRefInStackParamNameCustomConverter.getCu...	Platform	182.2757	182.2757		1	

OS: Mac OS X Java: JB 1.8.0\_152-release Action: EditorBackSpace

```
java.lang.Throwable: can't find tag for interface org.jetbrains.idea.devkit.dom.Action
parent stub: action
parent's children: [id:$Delete]
  at com.intellij.openapi.diagnostic.Logger.error(Logger.java:145)
  at com.intellij.util.xml.stubs.StubParentStrategy$1.getXmlElement(StubParentStrategy
  at com.intellij.util.xml.impl.DomInvocationHandler.getXmlElement(DomInvocationHandle
  at com.intellij.util.xml.impl.InvocationCache$11.invoke(InvocationCache.java:124)
```

commented \$Delete action in xml

**Q & A**

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