

# JRebel

**STOP REDEPLOYING**  
VIEW CODE CHANGES INSTANTLY



# DEVELOP WITH JREBEL

35,000 + Devs

The software development life cycle is an iterative process, meaning that the development of a single software component may often result in several code change/deploy/test cycles. Deployments/restarts to distributed application servers can be very time consuming.

JRebel helps more than 35,000 Java developers instantly see the impact of their code changes, without restarting their applications or losing state. With JRebel, developers can:

- Instantly load 95% of typical code changes, including complex Java EE updates <sup>1</sup>
- Write code 17% faster by eliminating application or server restarts <sup>1</sup>
- Increase predictability of releases by +8% <sup>2</sup>
- Avoid distractions and stay focused on writing high quality code

<sup>1</sup> "Java EE Productivity Report 2011"  
RebelLabs, November 2011

<sup>2</sup> "DevOps / ITOps Productivity Report 2013"  
RebelLabs, April 2013

With JRebel, development is a two step process- write your code changes and see them instantly



## WHY IS THIS IMPORTANT?

Every time developers change code, they restart their applications in order to see the impact of their changes. Depending on application size, server, build tools, frameworks and hardware, this could mean a 30 second to 30 minute wait! As a result, developers:

- Are interrupted with each restart and lose their train of thought
- Are plagued with slow feedback cycles and are forced to batch changes
- Lose an average of 10.5 minutes per coding hour (5 weeks a year) to restarts

# HOW DOES JREBEL WORK?

←  
*integrates!*

JRebel integrates with three aspects of Java and the JVM to enrich a developer's productivity and coding experience:

**Java Classes:** JRebel, an `-javaagent`, integrates with the JVM and rewrites each class to be updateable. Each class is versioned individually, as opposed to an entire application or module. JRebel does not use classloaders.

**Framework Configuration:** JRebel applies any configuration changes made to classes or resources.

**Workspace Mapping:** JRebel maps a deployed application to the developer's active workspace. Only changed classes are recompiled and instantly applied to the running application.

Changes to classes and annotations are always visible in the Reflection API.

## IDEs



## BUILD TOOLS



## APP SERVERS



## FRAMEWORKS



## WHY IS JREBEL DIFFERENT?

Unlike built-in JVM HotSwap, JRebel does not require debug mode, and supports class schema changes like adding methods or fields. JRebel supports:

- 60+ frameworks and instantly applies any configuration changes you make
- All major IDEs, application servers and containers

For more information, please go to [www.jrebel.com](http://www.jrebel.com)

# ABOUT ZEROTURNAROUND

from 2007

ZeroTurnaround's mission is to help developers and operations teams rapidly develop and continuously deliver high quality software to help businesses grow, stay competitive and keep customers happy.

ZeroTurnaround was founded in 2007 by Jevgeni Kabanov and Toomas Romer in Tartu, Estonia. Today, ZeroTurnaround is the labor of love by a global team of 100+. The company's go-to-market heart beats in Boston, USA, while our development feet are firmly planted (and rapidly growing) in Estonia, at two offices in Tallinn and Tartu. We also have a small but spunky branch in Prague, Czech Republic.

## ZeroTurnaround has added value to:

- 35,000 individual developers
- 3000 companies
- 23% of fortune 100 companies
- 97 countries around the world

Our customer success stories:

[www.zeroturnaround.com/company/case-studies](http://www.zeroturnaround.com/company/case-studies)

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say hi! :) ↑

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