

# Upsource IDE



# What we have

- Code-browser backed by IntelliJ IDEA
- Code-review in it
- Inspections
- Analytics



# Upsource

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- 
master warn if base commit was found too far away e9346a1  
 Eugene Petrenko authored an hour ago
- 
 do not wake INDEX cluster up on dummy event 4a0a621  
 Eugene Petrenko authored an hour ago
- 
 Merge remote-tracking branch 'origin/master' 26eff0a  
 Eugene Petrenko authored an hour ago
- 
 select base revision as min effective time delta in case search failed + test 753ea6a  
 Eugene Petrenko authored an hour ago
- 
 add logging 7194f35  
 Eugene Petrenko authored an hour ago
- 
 support enforceOrder mode for Commits Cluster + tests 30b7578  
 Eugene Petrenko authored 2 hours ago
- 
new-spam Merge branch 'master' into new-spam e548539  
 Andrey Zaytsev authored 3 hours ago
- 
 on **UP-CR-146**  ed3e5a4  
 Andrey Zaytsev authored 3 hours ago
- 
 revisions list wd tests fixed. 11dee72

**ReviewsTable.java**, revision 6936443 in **upsource**:  

 **Evgeny Pasyukov** 2 months ago  
@Maxim Podkolzine IMHO тут нужен message bus

 **Andrey Zaytsev** 3 hours ago  
+1 причем не тут, а выше, в ReviewManager

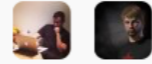
 **Maxim Podkolzine** an hour ago  
Я тоже согласен. Только после того, как я перешел на message bus в ReviewManager, выяснилось, что event'ы невозможно тестировать, они создаются в другом потоке. В нашем проекте я не нашел ни одного использования message bus в тестах. Собственно, поэтому и отложил.

Review **UP-CR-146**: do not overwrite existing review if review id counter is broken in **upsource**:  

 **Leonid Sheluyev** 4 days ago



## BaseRevisionCalculator.java



Code

Annotate

History

```
19  /**
20   * Created 05.12.13 19:02
21   *
22   * @author Eugene Petrenko (eugene.petrenko@jetbrains.com)
23   */
24  public abstract class BaseRevisionCalculator extends ImportBase {
25      private static final Logger Log = LoggerFactory.getLogger(BaseRevisionCalculator.class);
26
27      private final VcsClient myVcsClient;
28
29      public BaseRevisionCalculator(@NotNull final UpsourceApplicationEnvironment ae,
30                                  @NotNull final VcsClient vcsClient) {
31          super(ae);
32          myVcsClient = vcsClient;
33      }
34
35      @Nullable
36      protected abstract Integer threshold(@NotNull RevisionId id,
37                                           @NotNull ImportProjectDriver driver);
38
39
```

Usages of **BaseRevisionCalculator(UpsourceApplicationEnvironment, VcsClient)** (in com.jetbrains.upsource.backend.cli.stages.driver.BaseRevisionCalculator) in revision **e9346a1**



— done, found 2 usages

▼ /backend/.../impl/VcsContentsBaseRevisionCalculator.java

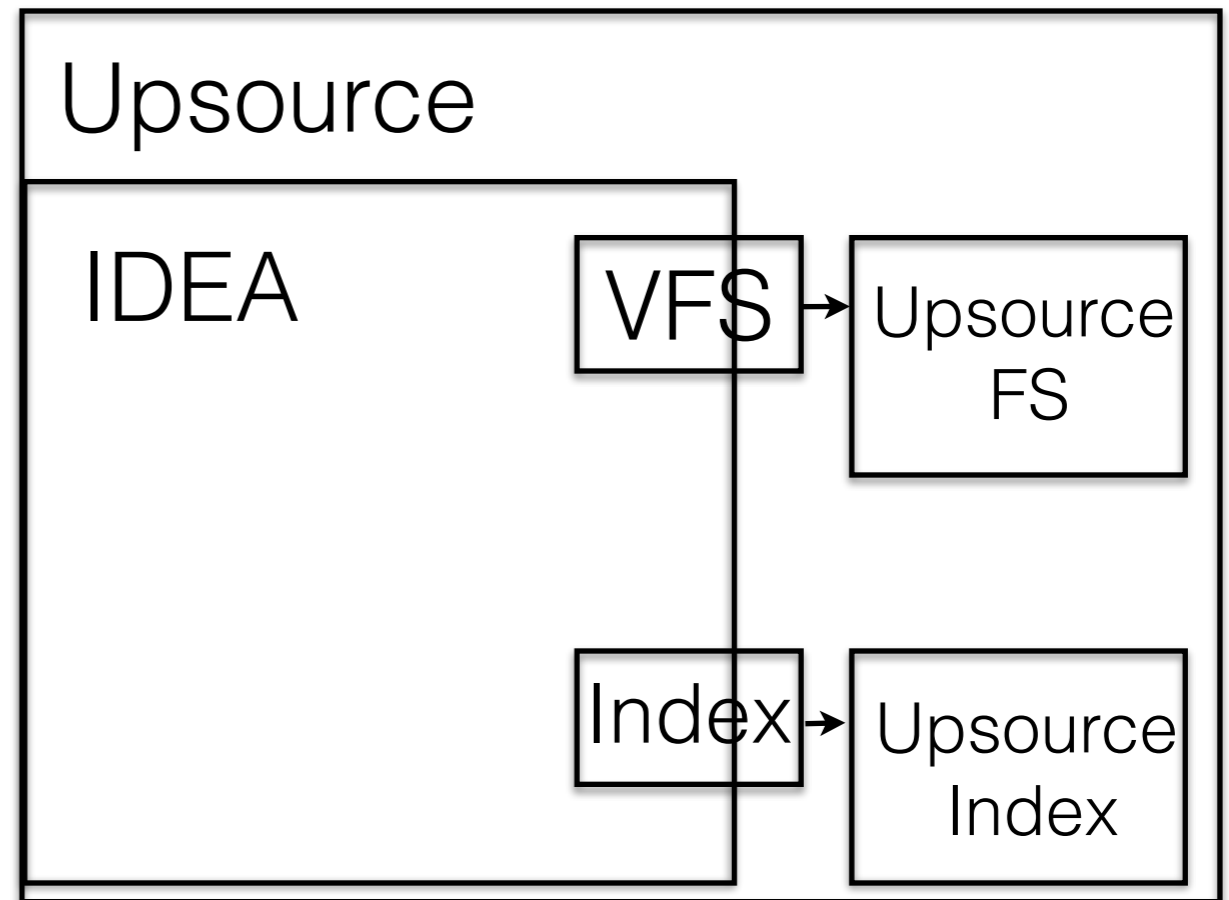
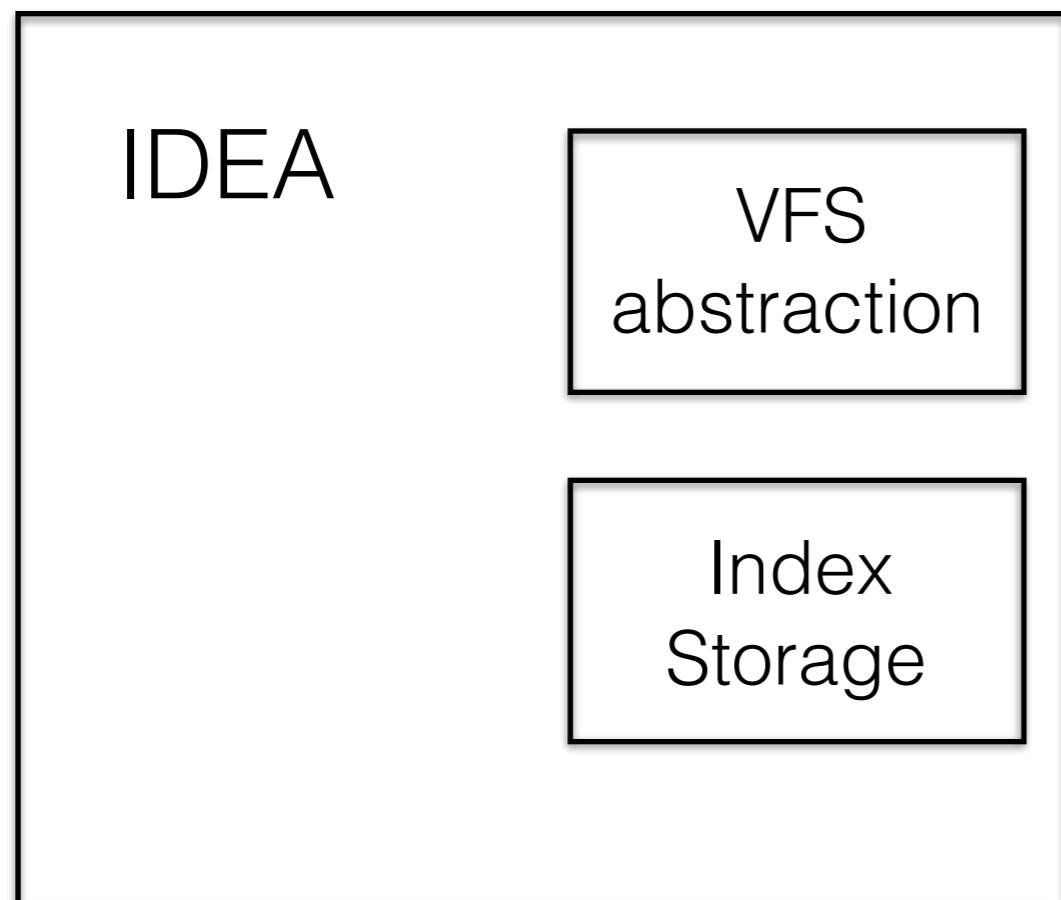
27: **super**(ae, vcsClient);

▼ /databaseTests/.../importProject/ImportProjectBaseRevisionCalculatorTest.java

141: final BaseRevisionCalculator calc = new **BaseRevisionCalculator**(getApplicationEnvironment(), MOCK\_VCS\_CLIENT) {

# Under the hood

- Distributed incremental filesystem
- IDEA indexes storage



- Upsource FS and Upsource Index are backed by distributed no-sql storage (Cassandra, Hypertable)
- Upsource itself is distributed (as many db and backend instances as we want)

# What IDE is

- Code Editing

We have working prototype of web-based editor which uses IntelliJ IDE-features (inspections, completion, intentions, refactorings, etc)

- Build-system
- Run/Debug/Test subsystem

# Tasks

1. Mount Upsource FS as local filesystem
2. Run Compiler on it
3. Run and Debug IDEA Run-Configurations
4. Pack it all in docker-container
5. Run on distributed agents cloud (we have TeamCity CI for that)



# Requirements

- Strong Java experience
- A kilotons of code in IDEA to understand and patch
- Linux hacking

# Contacts

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- JetBrains Universe office