

Java TracerTM

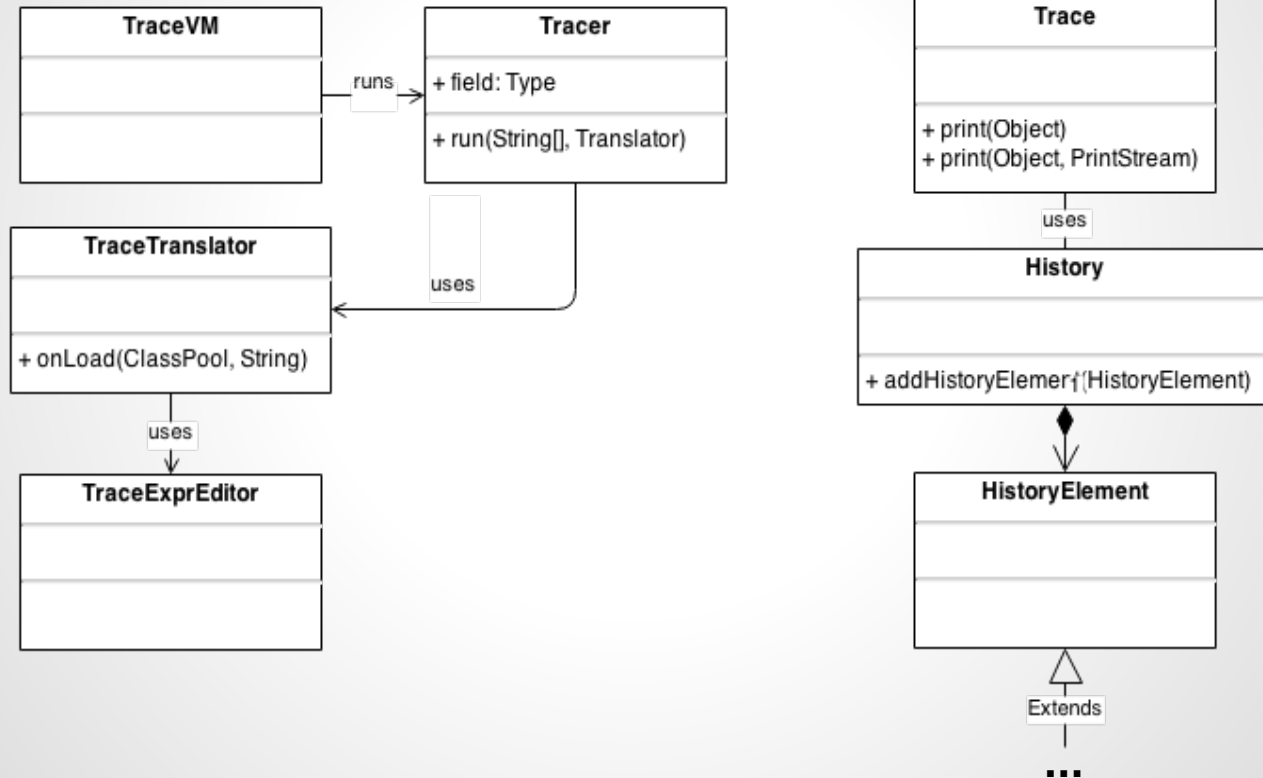
Overview

1. What is Java Tracer™?
2. Architecture
3. Usage
4. Extended Version

What is Java TracerTM

- An API for developers
- Tracks method and constructor calls, among other things
- Uses Javassist to inject the necessary code

Architecture



Usage

- Just use our *AWESOME* API:
 - `Trace.print(Object)`
- Extended only features:
 - `Trace.print(Object, PrintStream)`
 - `Trace.print(Object, Iterable<PrintStream>)`

Extended Version

We decided to add a few extra features to our JavaTracer™:

- Field access tracing
 - -> WRITE
 - <- READ
- Explicit cast tracing [<>]

Example (Code)

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class Foo {  
    String field;  
  
    Foo(String field) {  
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```
public class OurTest {  
  
    public static void main(String[] args) {  
        Foo foo = new Bar("Hello", 0);  
        Bar bar = (Bar) foo;  
        Trace.print(foo);  
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Output:
Tracing for ist.meic.pa.test.Bar@5d7138f4

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-> WRITE field 'field' on OurTest.java:19

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<- ist.meic.pa.test.Bar(java.lang.String,int) on OurTest.java:8

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<> cast to ist.meic.pa.test.Bar on OurTest.java:9

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-> ist.meic.pa.Trace.print(java.lang.Object) on OurTest.java:10

The End