

Tracer for Java

Programação Avançada 2013/2014

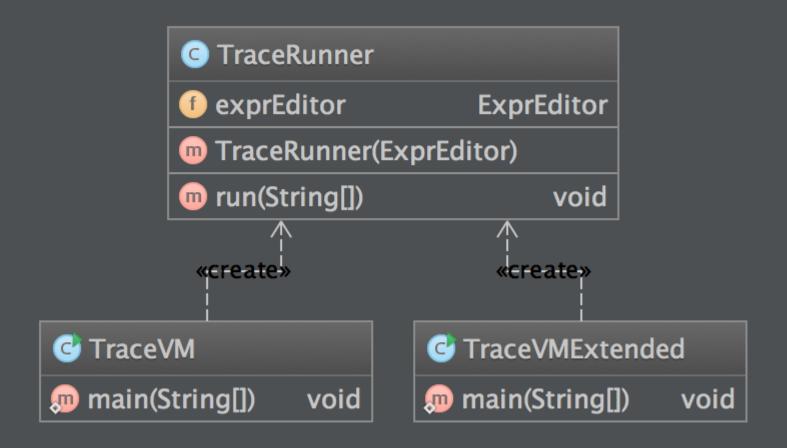
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Basic features

- Constructor Call
- Method Call

Extensions

- Field Access
- Exception Handler
- Cast
- InstanceOf
- NewArray



VM Architecture

```
© TraceTranslator

f exprEditor ExprEditor

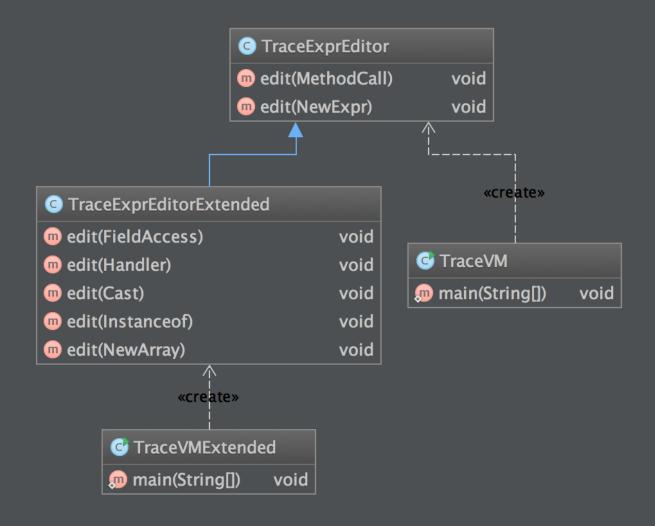
m TraceTranslator(ExprEditor)

m start(ClassPool) void

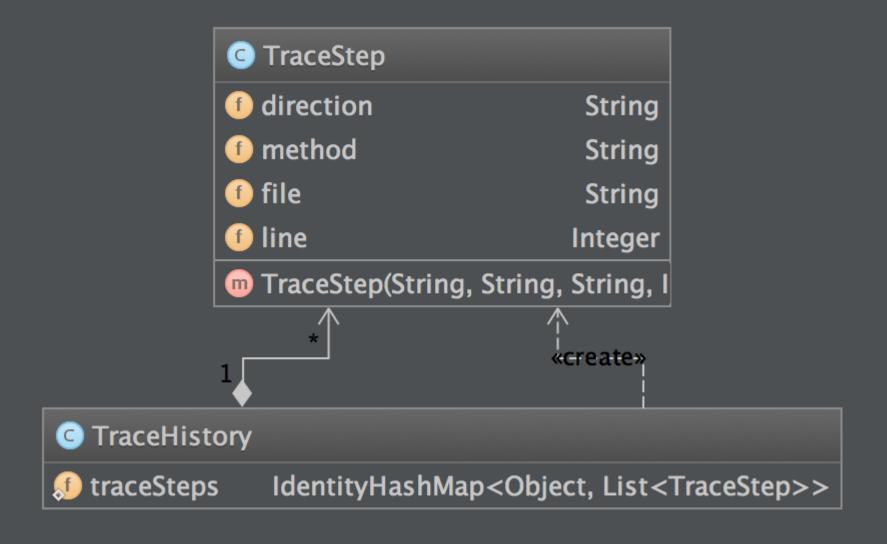
m onLoad(ClassPool, String) void
```

```
public void onLoad(ClassPool pool, String classname) throws {
   CtClass clazz = pool.get(classname);
   clazz.instrument(exprEditor);
}
```

Javassist Translator



Expression Editors



Tracing Storage

Memory overflow

Questions?