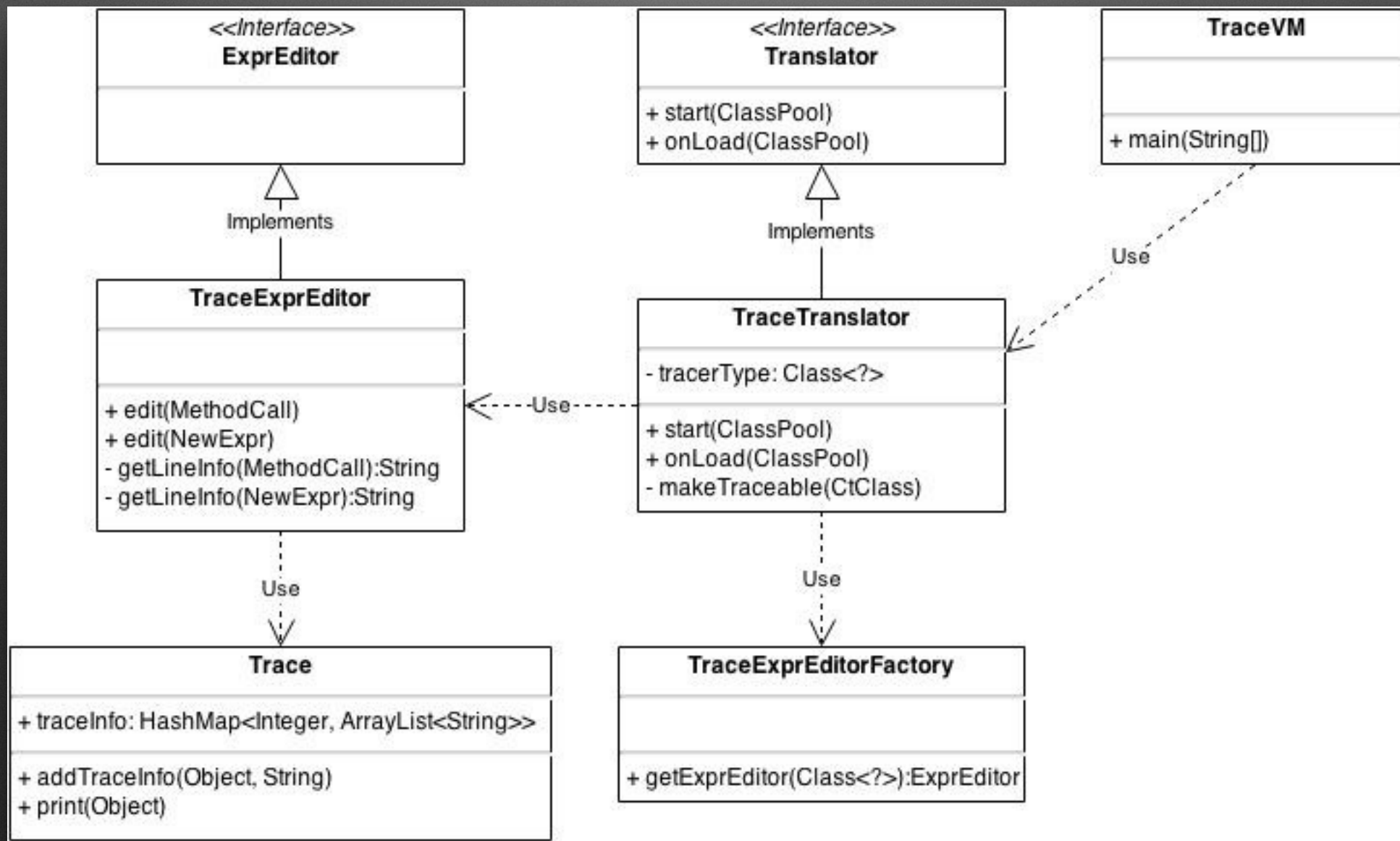


Tracer for Java

Miguel Abreu Belo
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Tracer for Java



Tracing Method Calls

- Tracer doesn't trace calls inside *ist.meic.pa.Trace*
- Before calling the method, Tracer iterates over the arguments and adds trace info for them if they aren't a primitive type
- After calling the method, Tracer adds trace info for the return value, if it isn't a primitive type or if it isn't void

Tracing New Expr.

- Tracer doesn't trace new expressions inside *ist.meic.pa.Trace*
- After calling the constructor, Tracer adds trace info for the value constructed by the expression

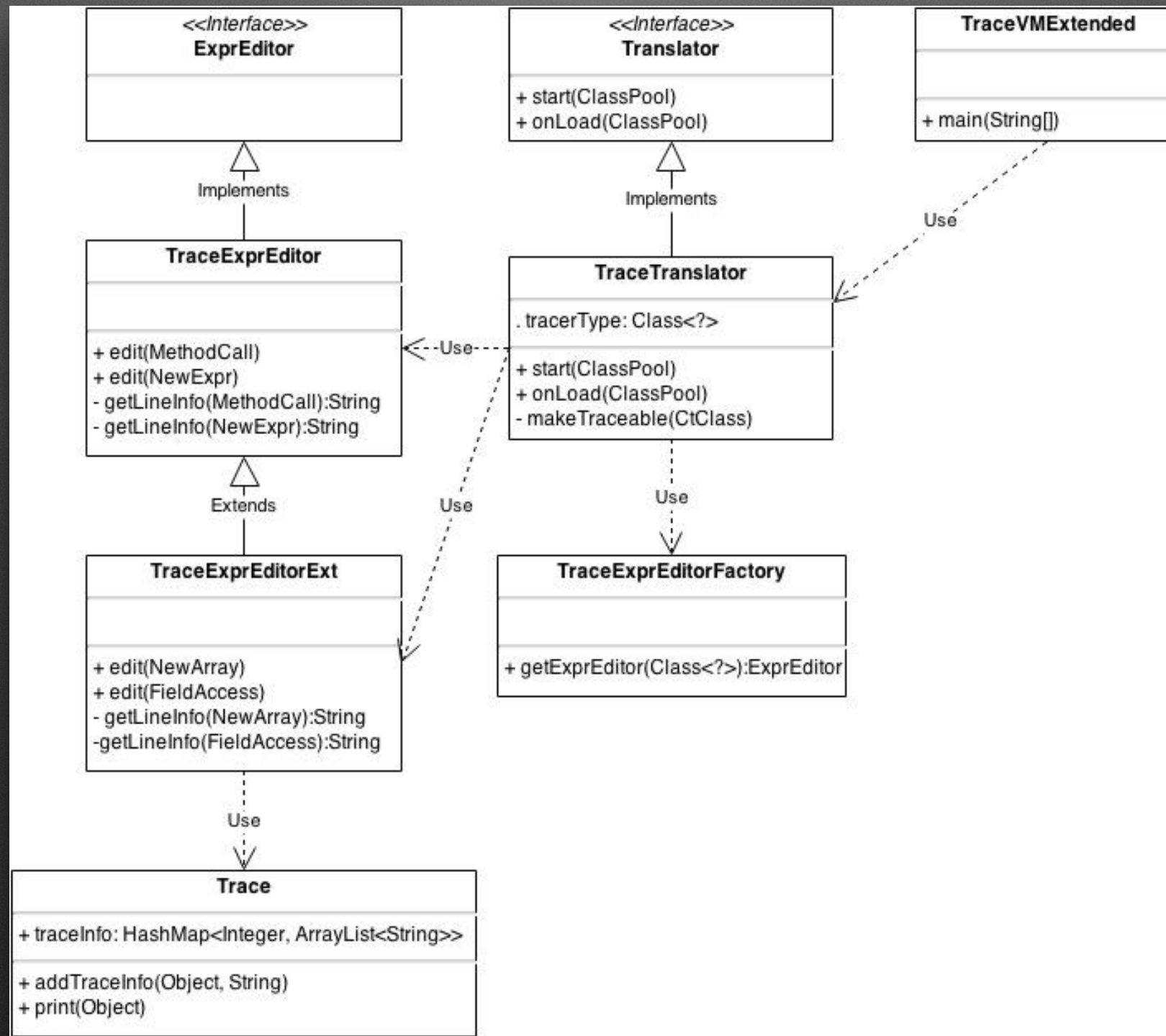
Other Details

- Traced objects: native arrays and Objects
- Traces everywhere inside a class

Extended Tracer



TÉCNICO
LISBOA



Array Print

- Displays the content of the array in the format `[o ...]`
- Iterates over the array in order to convert it to a string

Tracing New Arrays

- Tracer doesn't trace new expressions inside *ist.meic.pa.Trace*
- After calling the array constructor, Tracer adds trace info for the value constructed by the expression

Tracing Field Access

- Tracer doesn't trace calls inside *ist.meic.pa.Trace*
- When the access is to read from a field, the code to trace the read object is added after reading the field
- When the access is to write to a field, the code to trace the written object is added before writing to the field

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