SLF4J project

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Jakarta Commons Logging (JCL)

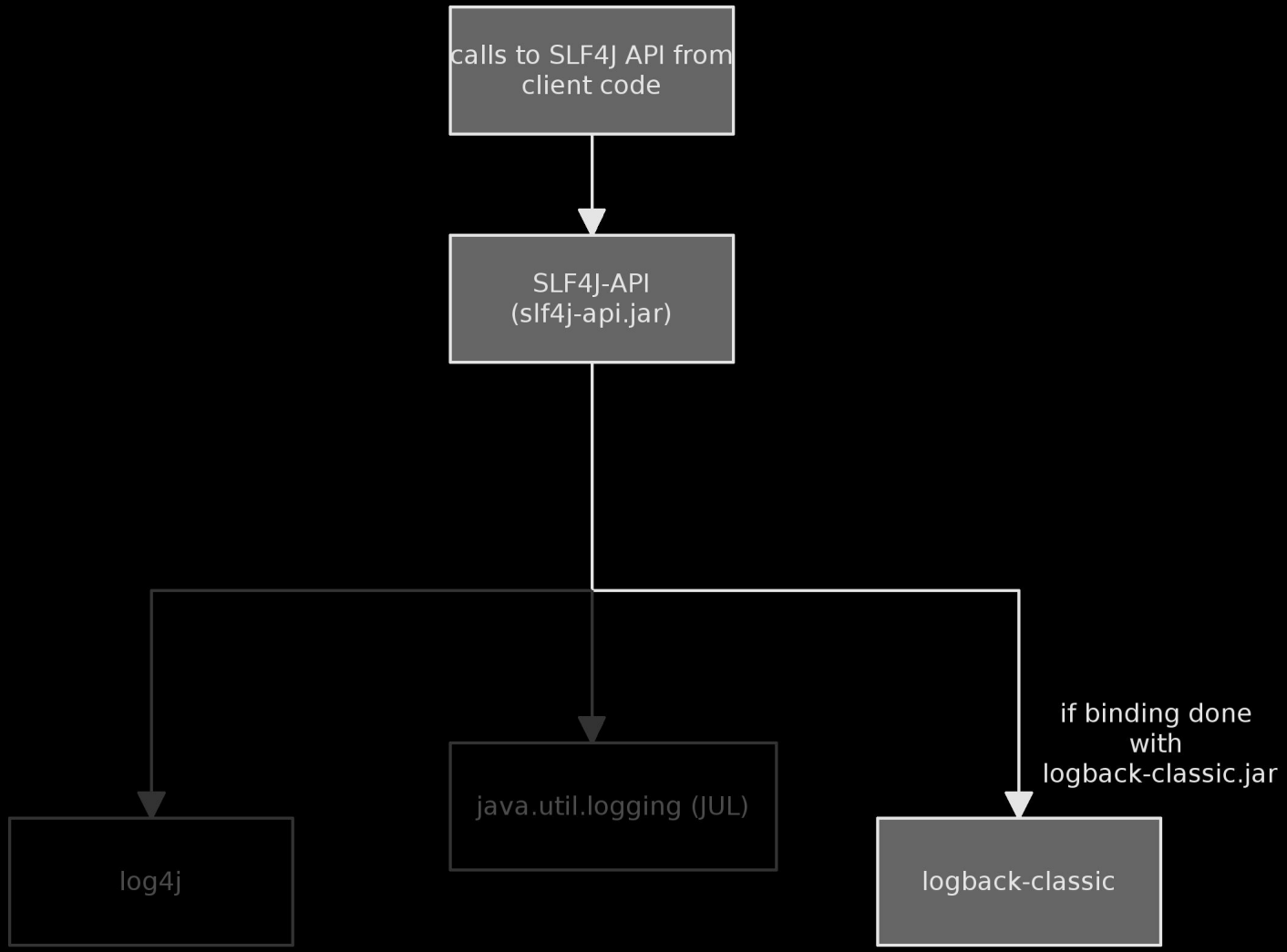
- Same problem domain
- Well-established library

- So why do we re-invent the wheel?

  Because details of implementation matter.

SLF4J

- SLF4J: Simple Logging Façade for Java
- Problem definition:
  1. Abstract logging frameworks
  2. ~~Manually/statically~~ selecting logging framework (in SCE4J)


calls to SLF4J API from client code
SLF4J-API (slf4j-api.jar)
log4j
java.util.logging (JUL)
if binding done with logback-classic.jar
logback-classic

The API

```
 1: import org.slf4j.Logger;
 2: import org.slf4j.LoggerFactory;
 3:
 4: public class Wombat {
 5:
 6:   final Logger logger = LoggerFactory.getLogger(Wombat.class);
 7:   Integer t;
 8:   Integer oldT;
 9:
10:   public void setTemperature(Integer temperature) {
11:
12:     oldT = t;
13:     t = temperature;
14:
15:     logger.debug("Temperature set to {}. Old temperature was {}.", t,
oldT);
16:
17:     if(temperature.intValue() > 50) {
18:       logger.info("Temperature has risen above 50 degrees.");
19:     }
20:   }
21: }
```

Parameterized logging

old style:

```
if(logger.isDebugEnabled()) {
  logger.debug("Hello "+name);
}
```

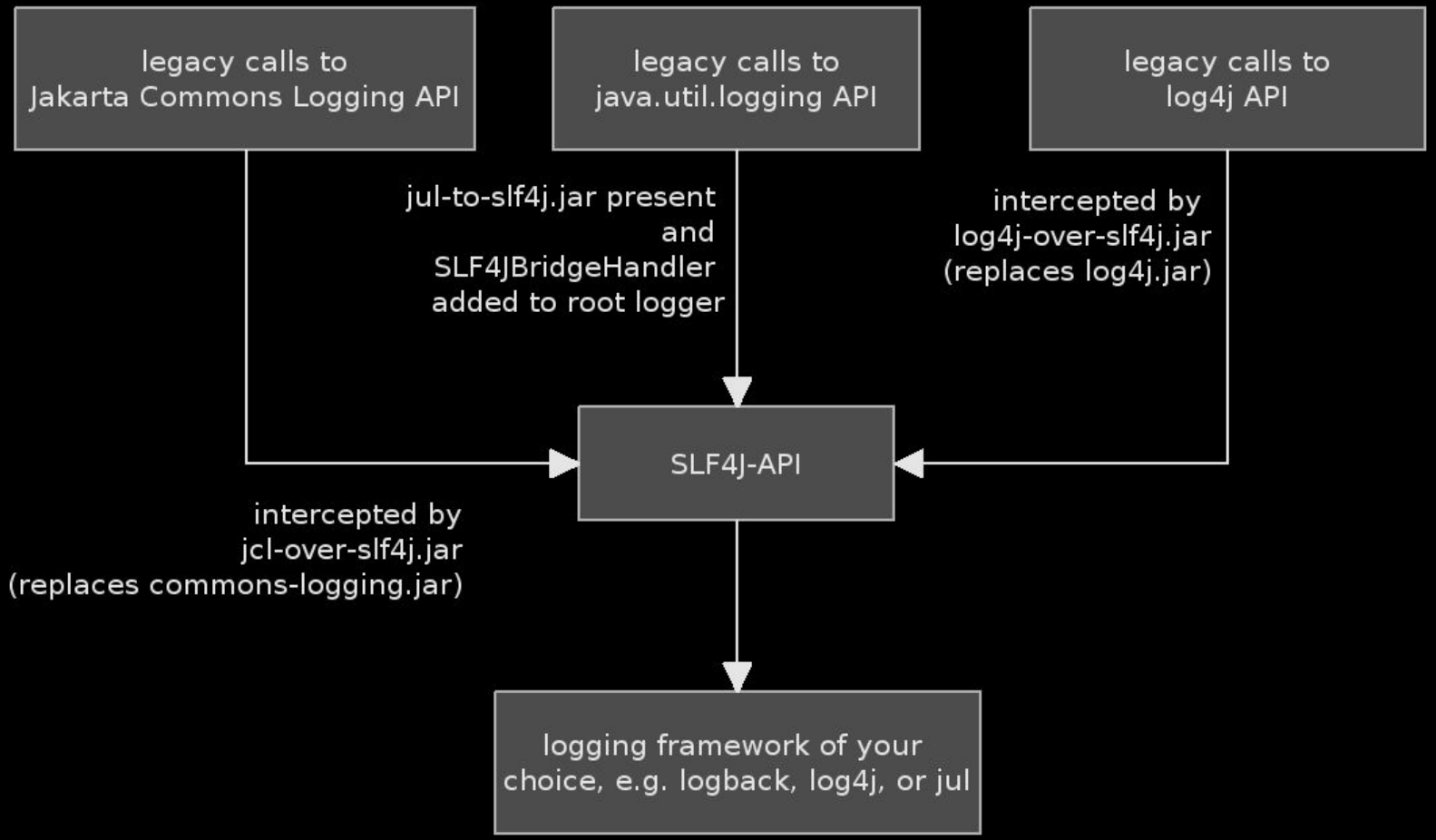
new style:

```
logger.debug("Hello {}", name);
```

Other supported features

- MDC (for log4j, logback and j.u.l)
- Markers

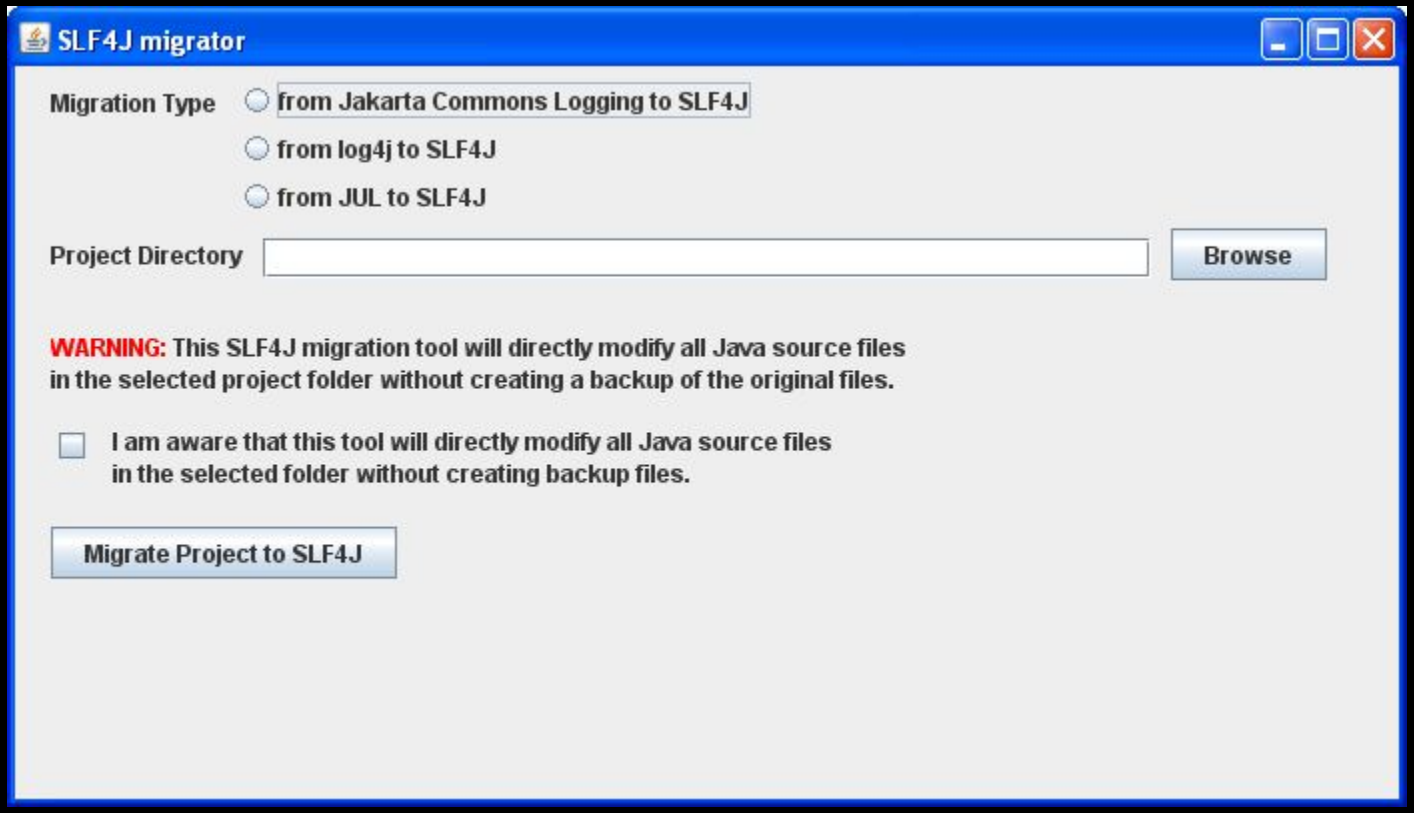
Bridging legacy systems



Using SLF4J:

- Apache Archiva
- Apache Directory
- Apache FTPServer
- Apache Geronimo
- Apache Graffito
- Apache Jetspeed
- Apache Jackrabbit
- Apache Mina
- Apache Qpid
- Apache Sling
- Apache Tapestry
- Apache Wicket
- Aperture
- Apogee
- Artifactory
- Bitronix
- DbUnit
- Display tag
- GMaven
- Gradle
- GreenMail
- GumTree
- H2 Database
- HA-JDBC
- Hibernate
- Igenko
- Jabsorb
- Jetty v6
- jLynx
- JMesa
- JODConverter
- JTrac
- JWebUnit 2.x
- LIFERAY
- log4jdbc
- Magnolia
- MRCP4J
- Mindquarry
- Mugshot
- Mule
- Novocode
- NetCDF
- OpenRDF
- Penrose
- Proximity
- PZFileReader
- QuickFIX/J
- SMSJ
- Spring-OSGi
- StreamBase
- TimeFinder
- WTFIGO
- YASL
- Xooctory

Migrator


SLF4J migrator
Migration Type
from Jakarta Commons Logging to SLF4J
from log4j to SLF4J
from JUL to SLF4J
Project Directory
Browse
WARNING: This SLF4J migration tool will directly modify all Java source files
in the selected project folder without creating a backup of the original files.
I am aware that this tool will directly modify all Java source files
in the selected folder without creating backup files.
Migrate Project to SLF4J

Conclusion

Simplicity is powerful.

-- Evan Williams

Robustness, particularly in the context of logging, is a killer feature and simplicity implies robustness.

Or, come up with *minimal* requirements and write just enough code to satisfy them.