TESLA

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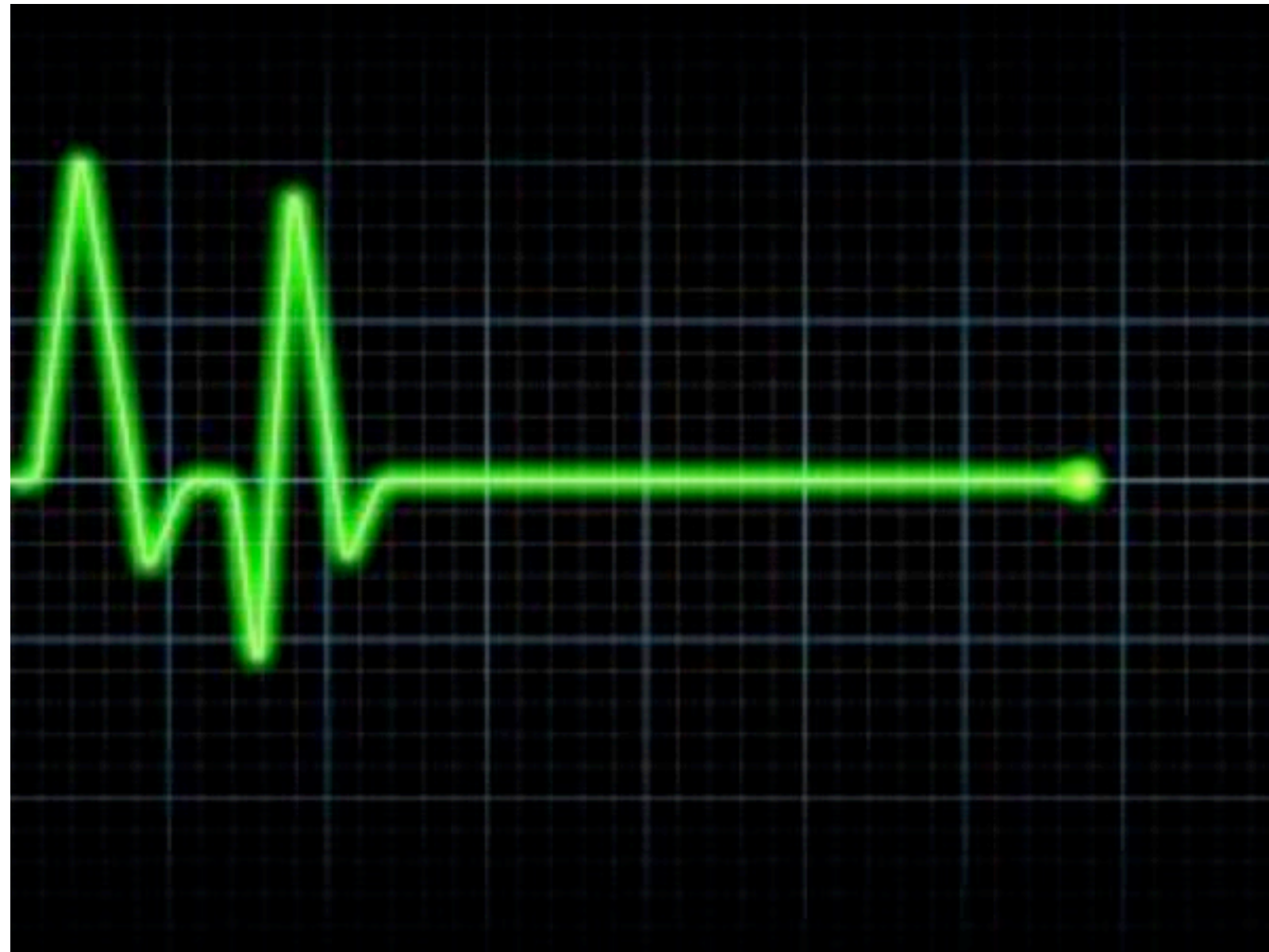
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"It's not a fork!"

- Jason van Zyl

Why Tesla?

Why Tesla?

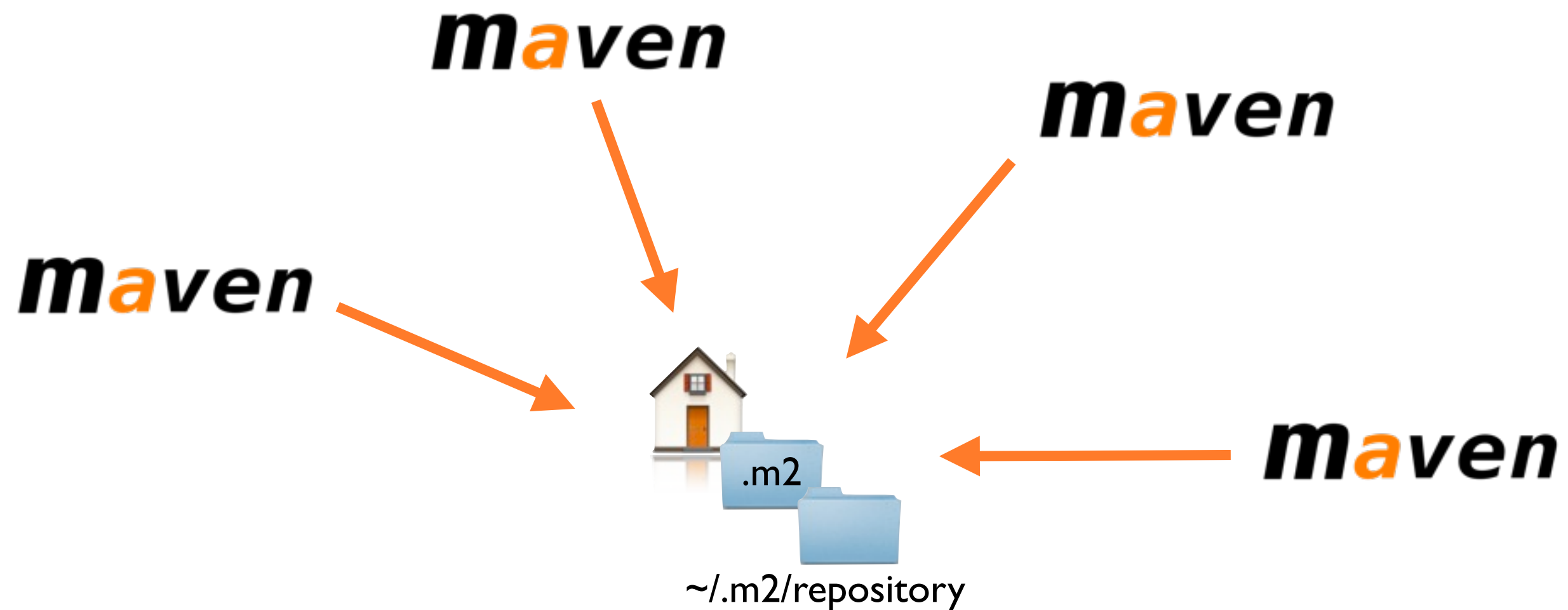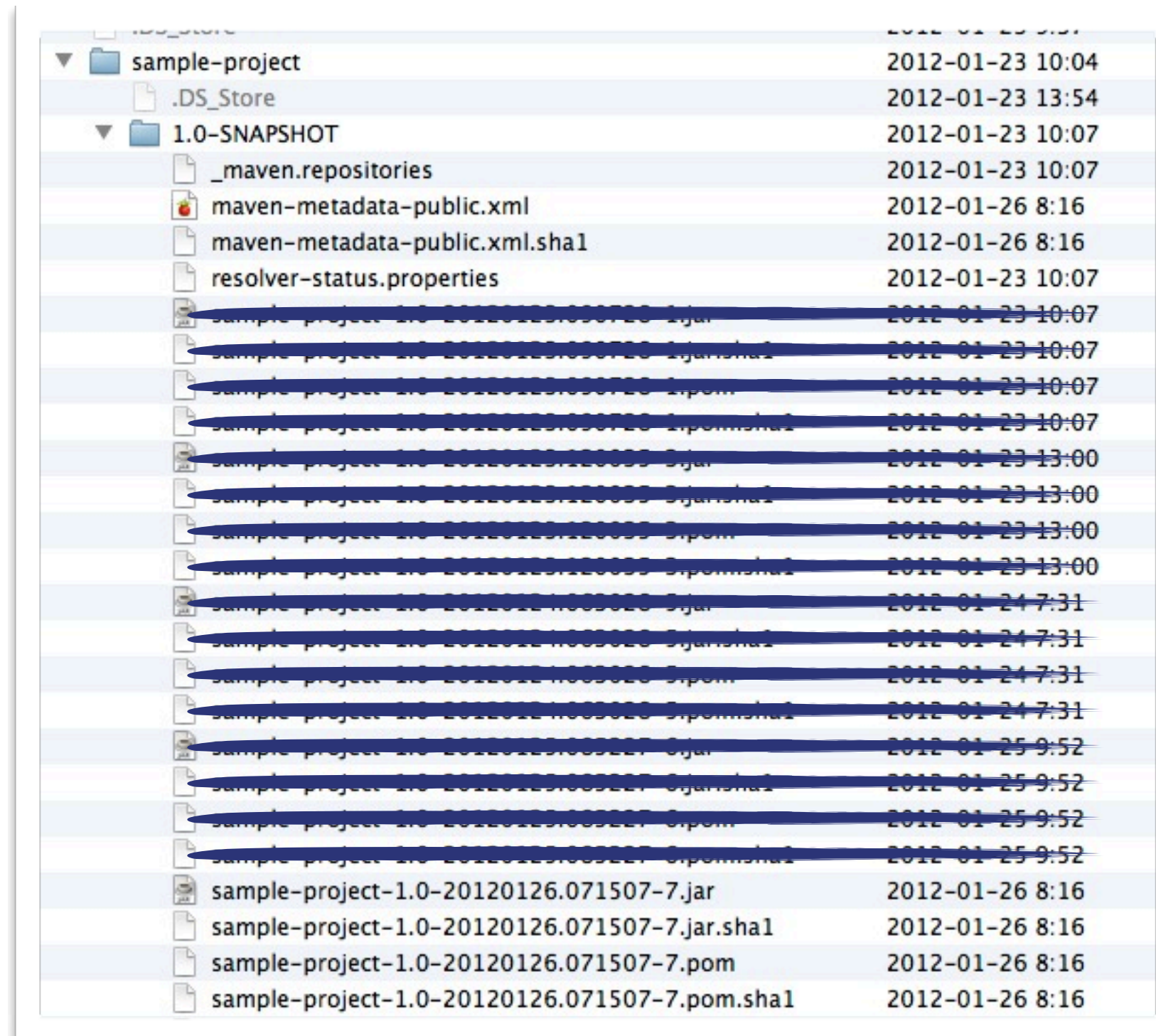# Why Tesla?

Features

- Local repository:

  - Concurrent Local Repository

  - Automatic Local Snapshot Purging

  - Split Local Repository

- Polyglot Support

- Plugin development:

  - Java 5 Annotation-based Plugin API

  - JSR-330 (DI) Components in Plugins

- Build Avoidance API

- Several New Extension Points

- TeslaShell

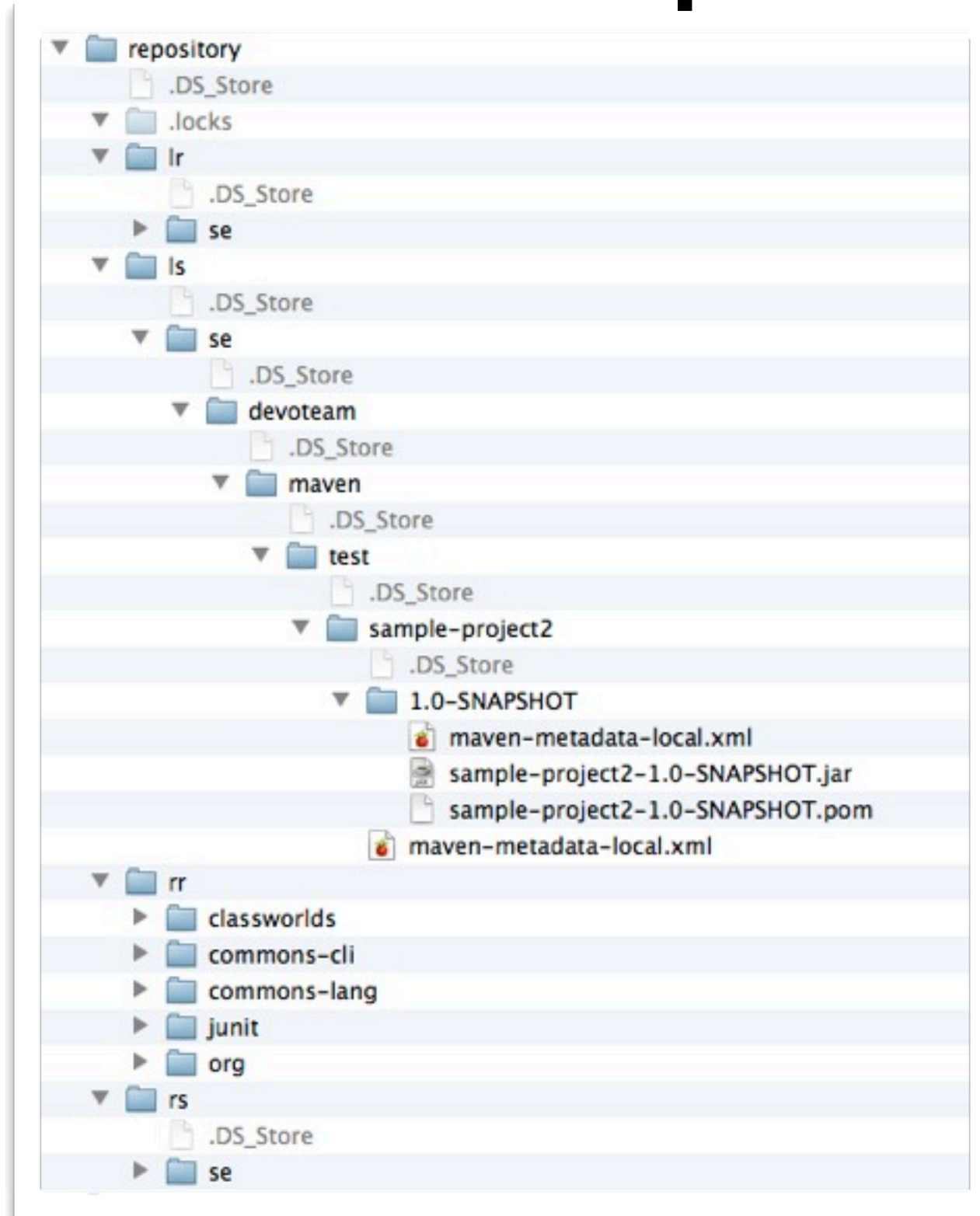- More to come!

Concurrent Local Repository

~/.m2/repository

Automatic Local Snapshot Purging

Split Local Repository

Polyglot Support

sitebricks / pom.atom

100644 | 67 lines (60 sloc) | 3.139 kb

```
1    repositories << "http://scala-tools.org/repo-releases/"
2
3    project "Sitebricks :: Parent" @ "https://github.com/dhanji/sitebricks"
4      id: com.google.sitebricks:sitebricks-parent:0.8.6-SNAPSHOT
5      inherit: org.sonatype.oss:oss-parent:6
6      packaging: pom
7
8      properties: [ org.testng.version: 5.8
9                    org.mortbay.jetty.version: 6.1.9
10                   guice.version: 3.0
11                   ch.qos.logback.version: 0.9.9
12                   org.seleniumhq.webdriver.version: 0.9.7376
13                   org.codehaus.jackson.version: 1.8.0 ]
14
15     overrides: [ com.google.sitebricks:sitebricks-converter:${project.version}
16                  com.google.sitebricks:sitebricks:${project.version}
17                  com.google.sitebricks:stat:${project.version}
18                  com.google.sitebricks:sitebricks-client:${project.version}
19                  org.mvel:mvel2:2.0.18
20                  com.google.guava:guava:r09
21                  com.google.code.gson:gson:1.6
22                  com.google.inject:guice:${guice.version}
23                  com.google.inject.extensions:guice-servlet:${guice.version}
24                  com.google.inject.extensions:guice-multibindings:${guice.version}
25                  net.jcip:jcip-annotations:1.0
26                  com.intellij:annotations:7.0.3
27                  org.freemarker:freemarker:2.3.10
28                  commons-io:commons-io:1.4
29                  commons-collections:commons-collections:20040616
```

Plugins: Annotations & JSR-330 DI

```
15   @Goal( "hello" )
16   @DefaultPhase( LifecyclePhase.VALIDATE )
17   @DefaultGoal
18   @ThreadSafe
19   @GeneratedResourceRoot( directory = "${outputDirectory}", includes = "**/*.properties,**/*.xml", filtering = "true" )
20   public class HelloWorldMojo
21       extends SisuMavenMojo
22   {
23
24       @Inject
25       private Hello hello;
26
27       @Configuration
28       @DefaultsTo( "${project}" )
29       @NonEditable
30       private MavenProject project;
31
32       /**
33        * The output directory.
34        */
35       @Configuration
36       @Property( "hello.outputDirectory" )
37       @DefaultsTo( "${project.build.directory}/hello" )
38       @Alias( "destinationDirectory" )
39       private File outputDirectory;
40
41       public void execute()
42           throws MojoExecutionException
43       {
44           try
```

Build Avoidance API

```
ahammarMBP-3:~ anders$ tsh

 |‾‾|      |‾|         |‾|
 |__|‾‾|   |_| |‾‾|  |_|
 |  | /‾‾| |  |  /  |  |
 |  | \__| |  | /   |  |
 |__|\__||_/\|_,_(_)   THE FUTURE BUILDS WITH TESLA!

Tesla Shell (4.0)


Type 'help' for more information.
-------------------------------------------------------------------------------
tsh(/):~> help
Available pages:
  alias            Define an alias or list defined aliases.
  cd               Changes the current directory.
  cp               Copy command.
  echo             Print arguments to standard output.
  encrypt-password Encrypt passwords.
  exit             Exit the current shell.
  help             Display help pages.
  history          Display history.
  hostname         Displays the name of the current host.
  info             Display information about the shell and environment.
  logging          Command group: logging
  ls               List the contents of a file or directory.
  mkdir            Create a directory.
  mvn              Execute Maven.
  pom              Command group: pom
  pref             Command group: pref
  pwd              Displays the current directory.
  recall           Recall an item from history.
  rm               Remove a file.
  rmdir            Remove a directory.
  set              Set a variable or property.
  shell-env        Shell environment variables overview.
  shell-files      Shell configuration files overview.
  shell-navigation Shell navigation overview.
  shell-syntax     Shell syntax overview.
  source           Execute commands from a source into the current shell.
  unalias          Undefine an alias.
  unset            Unset a variable or property.
  wget             Fetch a file from a URL.
tsh(/):~> █
```

Building Maven 3 Core

	Maven/Tesla (CLI)	TeslaShell
mvn clean		
mvn test	~54,2s	~53,3
mvn test	~48,2s	~43,8s
mvn test	~48,6s	~44,2s
mvn test	~47,7s	~44,8s
mvn test	~48,4s	~43,8s
mvn test	~49,1s	~43,7s

More Info

- Homepage: http://tesla.io/

- Source: http://github.com/etesla

- Download: http://us3.maven.org:8080/job/tesla-bootstrap/

THANKS

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