



APACHE SLING & FRIENDS TECH MEETUP
10-12 SEPTEMBER 2018

What's new in the Sling developer tooling?
Robert Munteanu – Adobe Systems Inc



@rombert

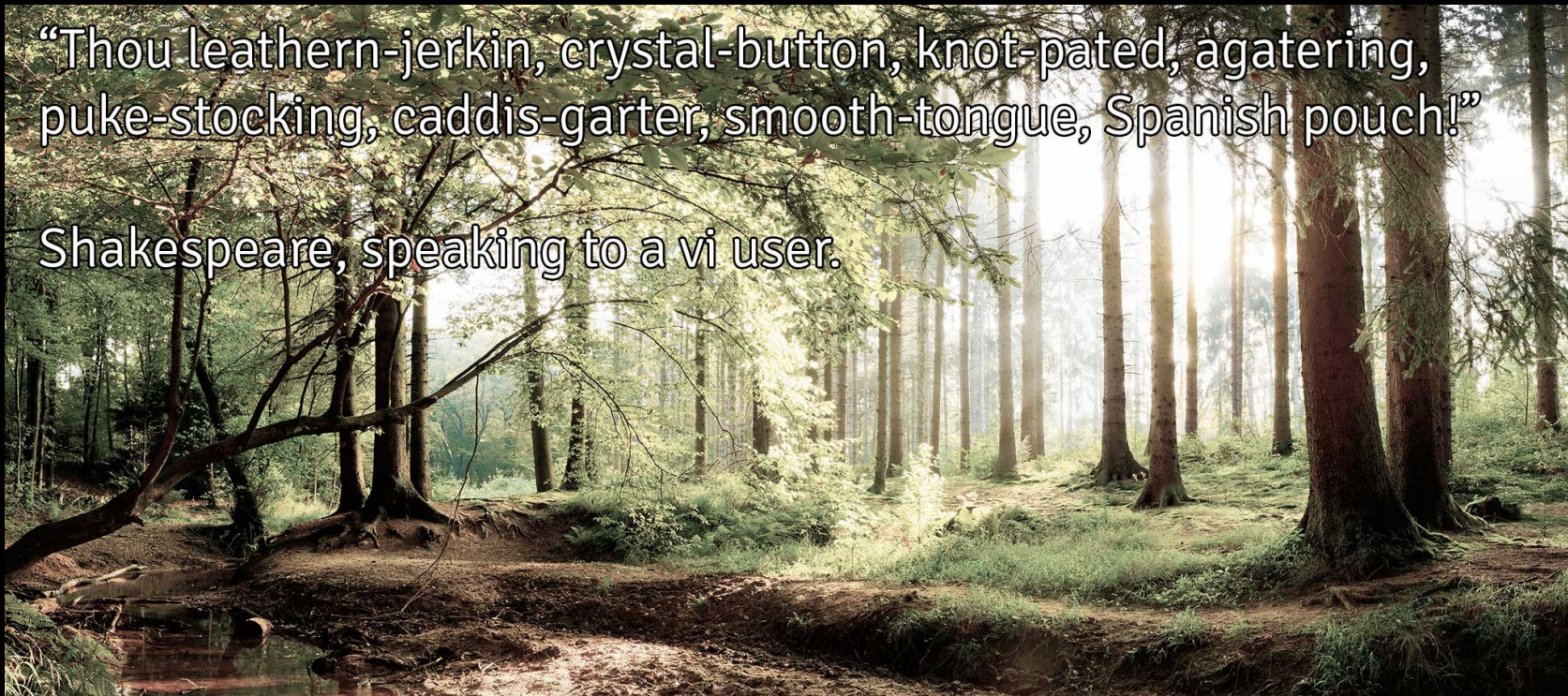
- Motivation
- Challenges
- Work done so far
- Future plans

Motivation

Why can't we be friends?

“Thou leathern-jerkin, crystal-button, knot-pated, agatering,
puke-stocking, caddis-garter, smooth-tongue, Spanish pouch!”

Shakespeare, speaking to a vi user.



SLING-2978 - Create tooling top-level directory and move maven and id...

...e under it

Moved the current IDE tooling from whiteboard/asanso to trunk/tooling/ide.

git-svn-id: <https://svn.apache.org/repos/asf/sling/trunk@1506951> 13f79535-47bb-0310

 master  sling-ide-tooling-1.2.2 sling-ide-tooling-1.2.0



rombert committed on Jul 25, 2013

0 parents

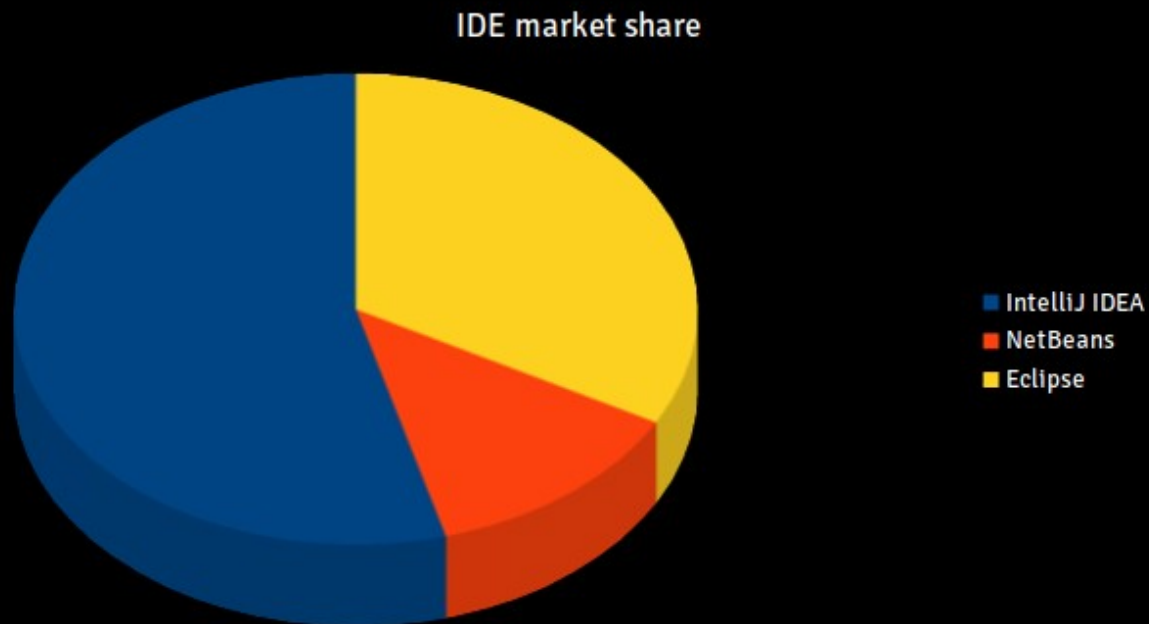
commi



Showing **90 changed files** with **4,990 additions** and **0 deletions**.

- Sling IDE Tooling *for Eclipse* 1.0.0 released - 01/Jul/2014
- Sling IDE Tooling *for Eclipse* 1.1.0 released - 14/Mar/2016
- Sling IDE Tooling *for Eclipse* 1.2.0 released - 21/Jan/2018

IDE market share statistics

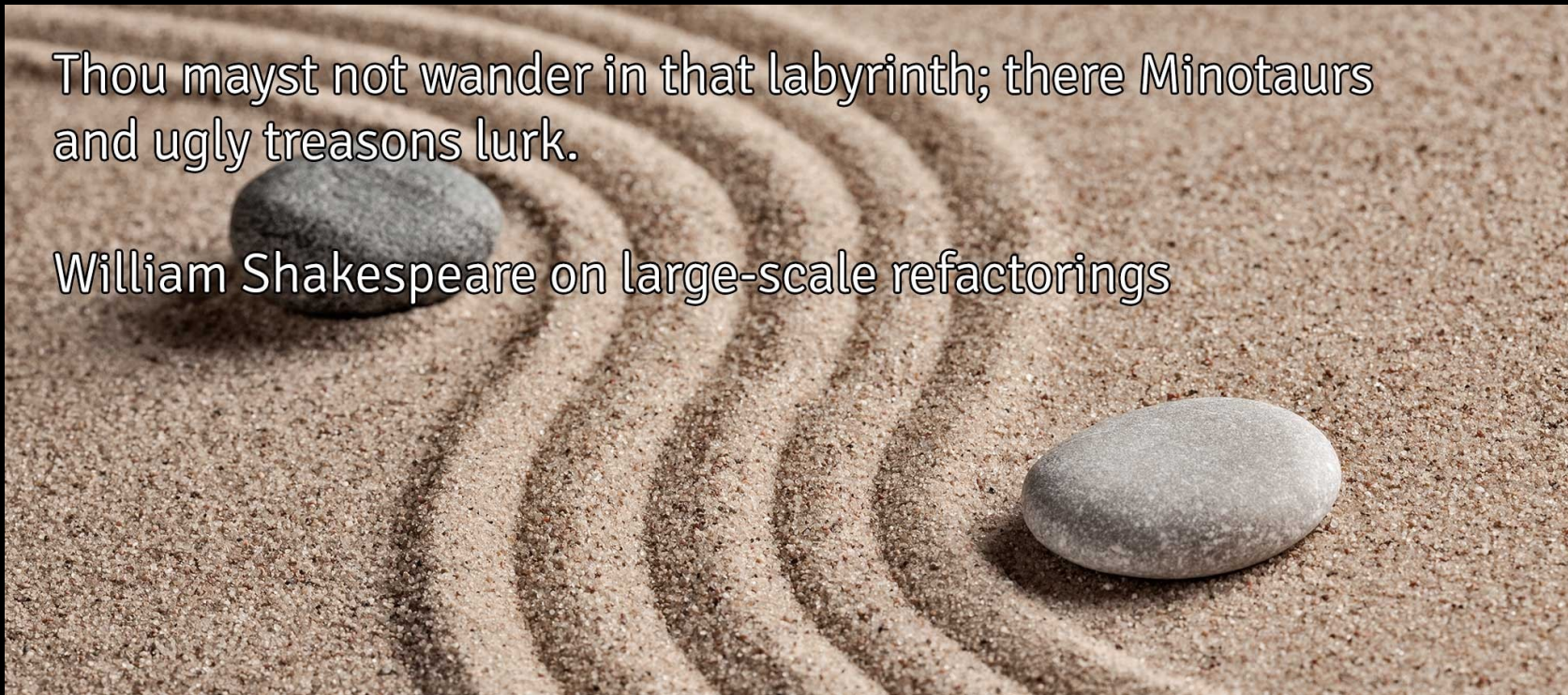


Source: <https://zeroturnaround.com/rebellabs/developer-productivity-report-2017-why-do-you-use-java-tools-you-use/>

Challenges

Thou mayst not wander in that labyrinth; there Minotaurs
and ugly treasons lurk.

William Shakespeare on large-scale refactorings





IDE-specific extensions

```
<extension
  point="org.eclipse.core.expressions.propertyTesters">
  <propertyTester

id="org.apache.sling.ide.eclipse.internal.ExportableResourceTester"
  type="org.eclipse.core.resources.IResource"
  namespace="org.apache.sling.ide.eclipse"
  properties="canBeExported,canBeImported"

class="org.apache.sling.ide.eclipse.core.internal.ContentResourceTes
ter">
    </propertyTester>
  </extension>
```

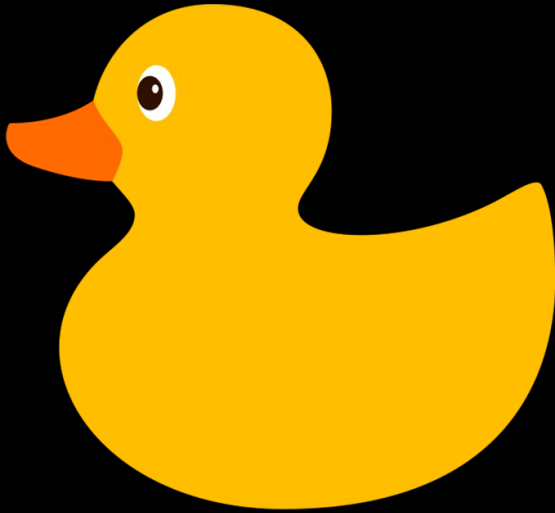
▼  **Andreas Schaefer** added a comment - 03/Mar/16 23:44

I finally you get Eclipse going and I think the issue is that Eclipse works on changes. The IntelliJ plugin does something similar but it also has a feature to force the push to the server and there is where I see the issue cropping up.



“Lying, the telling of beautiful untrue things, is the proper aim of Art.”

Oscar Wilde, on building Eclipse plug-ins with Maven

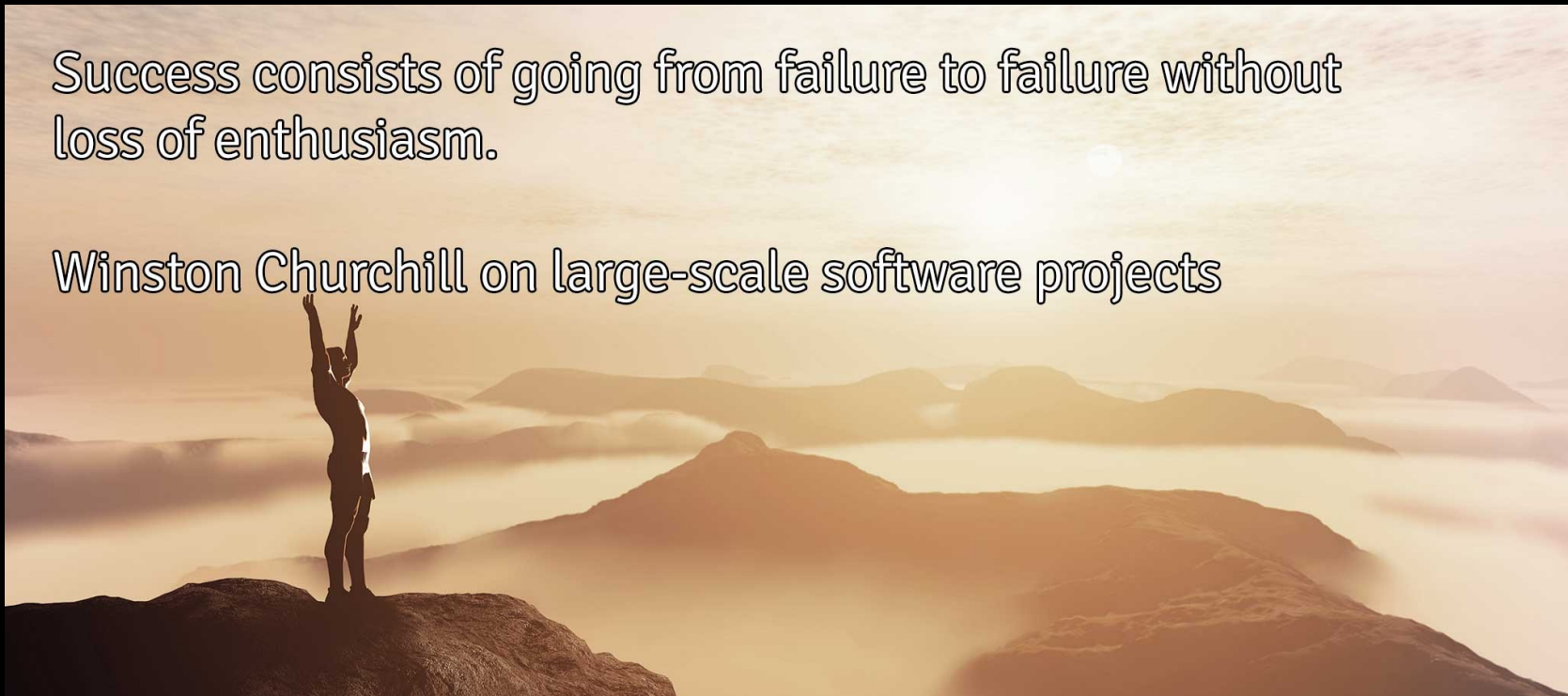


- Eclipse plug-ins require a p2 repository to get dependencies
- Tycho only supports http p2 repositories
- Can't easily mix Tycho and non-Tycho projects in the same reactor build
- We need plain Maven dependencies to use them outside of Eclipse

Approach

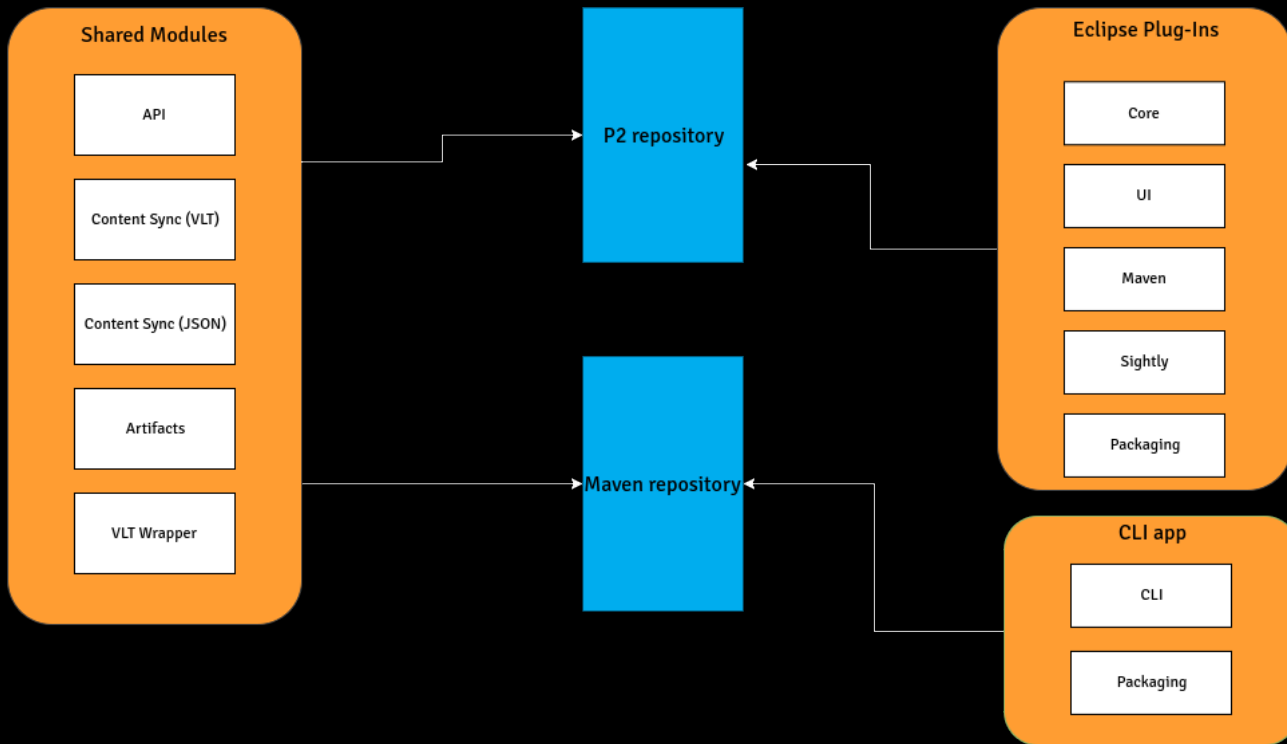
Success consists of going from failure to failure without loss of enthusiasm.

Winston Churchill on large-scale software projects



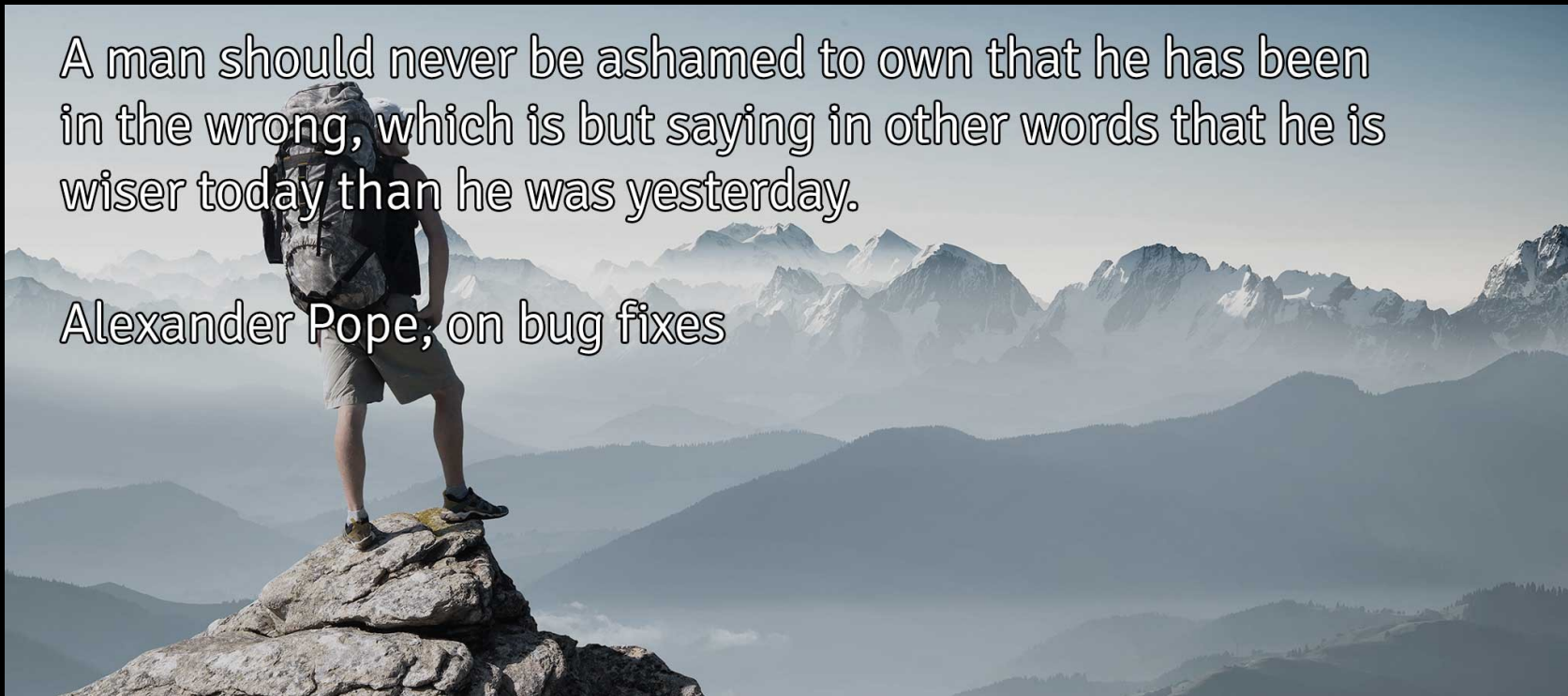
- Extract Eclipse-free and OSGi-free interfaces
- Many times implementations are one-liner delegates to the Eclipse APIs
- Rethink component lifecycle to make them easier to reuse in other environments

Build refactoring

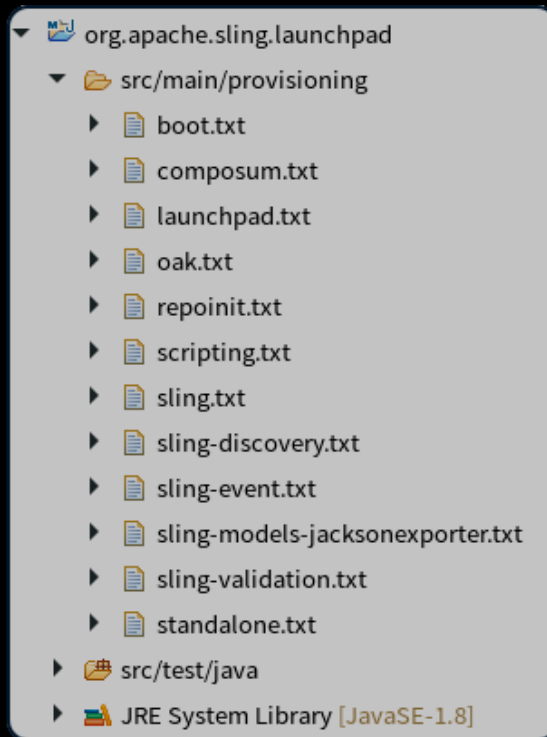


A man should never be ashamed to own that he has been in the wrong, which is but saying in other words that he is wiser today than he was yesterday.

Alexander Pope, on bug fixes





Better support for the provisioning model





Enhanced validation


▼  src/main/content/jcr_root [nt:folder]


▼  apps [nt:folder]


▼  workshop [sling:Folder]


▼  article [sling:Folder]


 VersionHelper.java [nt:file]


▼  welcome [sling:Folder]


 helper.js [nt:file]


 listing.html [nt:file]

 welcome.html [nt:file]


▼  src/main/content/jcr_root [nt:folder]

▼  content [nt:folder]

▼  workshop [nt:folder]

▶  ide-tooling [nt:unstructured]

▶  intro [nt:unstructured]

▶  sling-basics [nt:unstructured]

- Additional preferences for Maven project configurators
 - *Sling IDE → Maven Project Configurator*
- Support for the bnd-maven-plugin
- Support for the filevault-package-maven-plugin

Après moi, le déluge

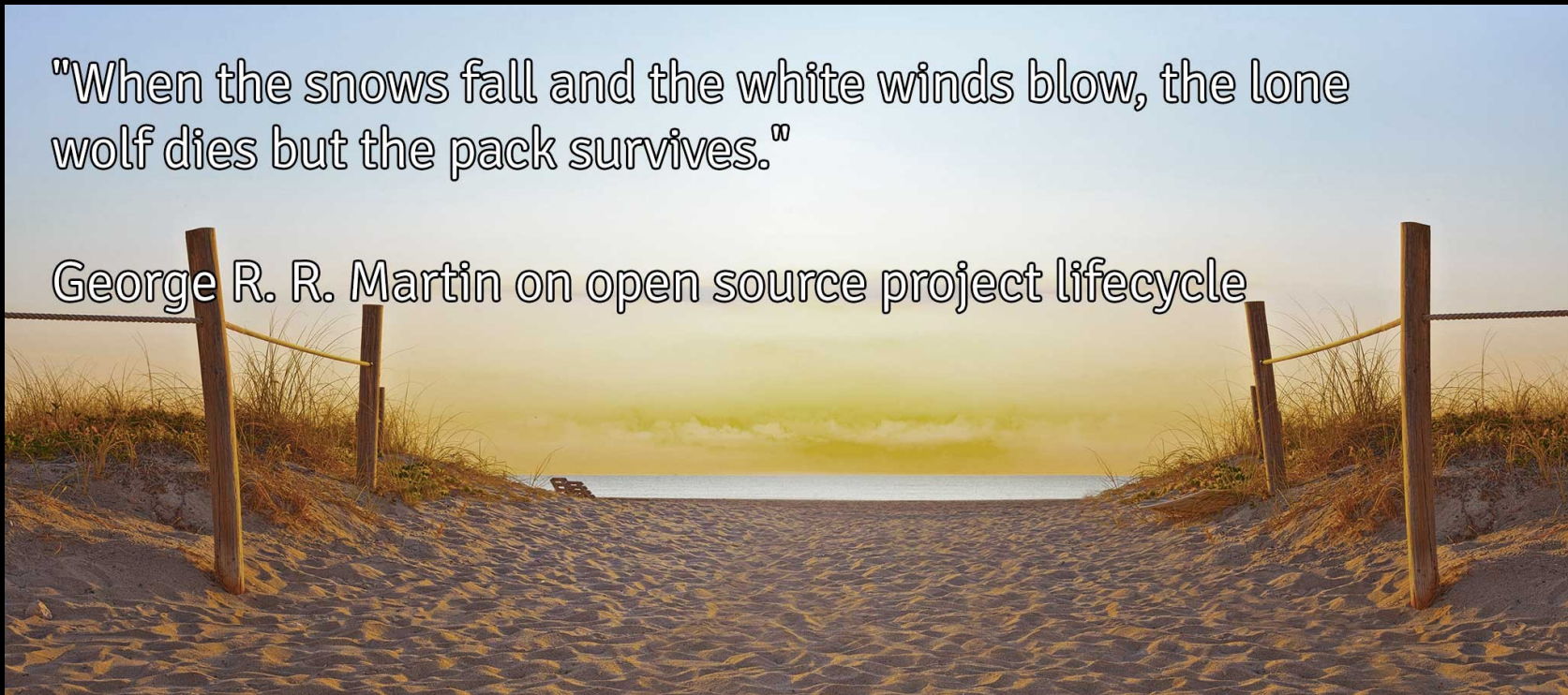
Louis XIV, after a failed on-stage demo



Future plans

"When the snows fall and the white winds blow, the lone wolf dies but the pack survives."

George R. R. Martin on open source project lifecycle



- Simplified code contributions - don't need to code in Eclipse
- Simpler API reuse - can be picked in on other IDEs

- IntelliJ
- Netbeans



Wrap-up

- <https://sling.apache.org/documentation/development/ide-tooling.html>
- <https://github.com/apache/sling-ide-tooling>