

# Open issues for the next release

## Table of contents

|   |   |
|---|---|
| 1 [FOR-713] HTML-to-document.xsl no longer generates an XDoc.....   | 2 |
| 2 [FOR-591] MaxMemory needs increasing.....   | 2 |
| 3 [FOR-762] Default page URL for breadcrumbs and site: links.....   | 2 |
| 4 [FOR-796] Merge all view/dispatcher work into org.apache.forrest.plugin.internal.dispatcher and org.apache.forrest.themes.core..... | 2 |
| 5 [FOR-388] Use plugins in-place if src available.....  | 2 |
| 6 [FOR-533] Auto Generate plugins.xml entry.....  | 3 |
| 7 [FOR-735] Plugins are not correctly deployed in webapp mode.....  | 3 |
| 8 [FOR-711] Cache results from the Locationmap.....   | 3 |
| 9 [FOR-742] trouble accessing unversioned plugin for a released version of Forrest, e.g. projectInfo.....                             | 3 |
| 10 [FOR-707] Document i18n features of Forrest.....   | 4 |
| 11 [FOR-639] define terminology for the various aspects of Dispatcher.....  | 4 |
| 12 [FOR-241] character entities (e.g. ampersand) are expanded again for href or src attributes.....                                   | 4 |
| 13 [FOR-211] whole-site html and pdf: broken ext links.....   | 4 |
| 14 [FOR-210] whole-site html and pdf: broken link faq, broken image links.....  | 5 |
| 15 [FOR-209] First level selected tab is not highlighted when containing 2nd level tabs.....  | 5 |
| 16 [FOR-203] 2nd level tabs are not selected appropriately.....   | 5 |
| 17 [FOR-200] Locationmap for Forrest and Users.....   | 5 |
| 18 [FOR-546] Sitemap reference doc should be updated to reflect plugin architecture.....  | 5 |
| 19 [FOR-560] Remove duplicate jars from eclipse plugins.....  | 6 |
| 20 [FOR-562] Update Plugins howto.....  | 6 |
| 21 [FOR-645] patches for whitespace cleanup.....  | 6 |
| 22 [FOR-644] whitespace cleanup.....  | 6 |
| 23 [FOR-726] use locationmap in all of the plugins.....   | 7 |
| 24 [FOR-721] entries without labels in site.xml are now being crawled and generated.....  | 7 |
| 25 [FOR-677] leading slash in gathered URIs causes double the number of links to be processed....                                     | 7 |

**Note:**

These are the top 25 open issues for the next release that are scheduled in our [issue tracking system](#) (see [all](#) open issues). The listing below is regenerated on each Forrest run.

**1. [FOR-713] HTML-to-document.xsl no longer generates an XDoc**

<http://issues.apache.org/jira/browse/FOR-713>

html-to-document.xsl no longer converts content to an XDoc. Instead it renders converts documents to XDoc, instead it allows H1, H2 etc. elements to pass through.   
 The result is a page that seems to render correctly and in the single test case I have used it still renders correctly in PDF and Text format. However, this is a backward incompatible change that will break sites that use includes with XPath statements such as /section[@id="foo"] (sections are no longer created)

**2. [FOR-591] MaxMemory needs increasing**

<http://issues.apache.org/jira/browse/FOR-591>

Since the docs restructuring for the 0.7 release it has become necessary to increase the maxmemory to be able to build the Forrest site.   
 Does this indicate a memory leak?   
 Does someone have the tools to run some diagnostics?   
 (NB maxmemory has been increased in forrest.properties, if we resolve this issue it should be reduced again)

**3. [FOR-762] Default page URL for breadcrumbs and site: links**

<http://issues.apache.org/jira/browse/FOR-762>

When employing breadcrumbs,   
 example generated links: home > dir > subdir   
 if the user is in node subdir, then clicks dir, cocoon returns "The requested resource "/dir /" could not be found.   
 The link's absolute path during testing is <a href="http://localhost:8888/dir/">http://localhost:8888/dir/</a>   
 Case 1. If you place an index.html file under <a href="http://localhost:8888/dir/">http://localhost:8888/dir/</a> for a redirect or viewable content,   
 clicking on breadcrumbs' dir link throws the error.   
 Case 2. If you manually enter the index.html in the browser path after <a href="http://localhost:8888/dir/">http://localhost:8888/dir/</a> the request is handled.   
 Case 3. If sitemap has match="dir/index.html", cocoon still isn't happy with request dir/   
 Cocoon does not appear to assume the end node directory is index.\* and thus appends no file automatically as tomcat or the http server does so it must be manually done.

**4. [FOR-796] Merge all view/dispatcher work into org.apache.forrest.plugin.internal.dispatcher and org.apache.forrest.themes.core**

<http://issues.apache.org/jira/browse/FOR-796>

This is the global issue to keep track on the merging effort

**5. [FOR-388] Use plugins in-place if src available**

<http://issues.apache.org/jira/browse/FOR-388>

At present Forrest will attempt to download plugins even if they are available in src form in the local filesystem as part of an SVN checkout. <br/> <br/> Have Forrest mount plugins from designated directories in preference to downloading them wherever possible (need more than possible location for src plugins as some people may be developing their own plugins outside of Forrest) <br/> <br/>

## 6. [FOR-533] Auto Generate plugins.xml entry

<http://issues.apache.org/jira/browse/FOR-533>

The information in the plugins.xml file would be better kept in the plugin directory and added to the plugins.xml file when deployed. This would reduce the amount of duplication in the plugins config files. <br/> <br/> All the necessary values are now in the plugin build.xml file. <br/> <br/> This change will require that the plugins.xml file be retrieved from the build directory rather than the plugins directory when building the plugin documentation pages. We will therefore need a fall back to retrieve this file from the network if it is not currently available - this can be done with the locationmap

## 7. [FOR-735] Plugins are not correctly deployed in webapp mode

<http://issues.apache.org/jira/browse/FOR-735>

(At this point I didn't try this scenario step by step any more; basically it is what we did to setup the site, except that we copied our project data from forrest 0.6 before trying the pdf links) <br/> <br/> - run forrest webapp to create an empty webapp <br/> - configure Tomcat to run the webapp (we did it by creating a context descriptor and put it onder Tomcat's config directory) <br/> - the pdf links give an error &quot;Resource Not Found&quot;;

## 8. [FOR-711] Cache results from the Locationmap

<http://issues.apache.org/jira/browse/FOR-711>

Now that we are using the locationmap extensively it is showing up just how inefficient it is. The problem is that for the majority of requests there are multiple requeests to the locationmap. We can make things much faster (especially on the first page request) by caching results in the locationmap. <br/> <br/> I think a simple cache will suffice, lets just provide a static hashmap using the hint as a key and, of course, the location as the value. <br/> <br/> If we test all locationmaps and find no result we should record that tere is no result in this hashmap. This will also be a good place to throw an exception so that Cocoon can better report such errors (see <a href="http://issues.apache.org/jira/browse/FOR-701" title="Missing locationmap entry gives poor error">FOR-701</a>)

## 9. [FOR-742] trouble accessing unversioned plugin for a released version of Forrest, e.g. projectInfo

<http://issues.apache.org/jira/browse/FOR-742>

The plugin retrieval and deployment process are not quite correct. Recently the projectInfo plugin had its version number incremented and the "unversioned" plugin now relates specifically to 0.8-dev version. That prevents 0.7 from accessing the relevant plugin. The solution is discussed here:

<http://marc.theaimsgroup.com/?t=113176328300002>

## 10. [FOR-707] Document i18n features of Forrest

<http://issues.apache.org/jira/browse/FOR-707>

There is next to no documentation about i18n, just a pretty poor FAQ entry that points at an issue that has now been closed.

Cheche wrote a blog entry on his work: <http://casa.che-che.com/blog/2005/05/10/internalization-a-site-using-forrest-07-dev/> We could, at the very least use the locationmap to pull this content into our site [OT: I wonder if this could be a way to generate more documentation?]

## 11. [FOR-639] define terminology for the various aspects of Dispatcher

<http://issues.apache.org/jira/browse/FOR-639>

See the email thread:

<http://marc.theaimsgroup.com/?t=112276643700001>

## 12. [FOR-241] character entities (e.g. ampersand) are expanded again for href or src attributes

<http://issues.apache.org/jira/browse/FOR-241>

If I have a url like this inside the XML source:

[http://sourceforge.net/sflogo.php?group\\_id=comics-grabber&type=1](http://sourceforge.net/sflogo.php?group_id=comics-grabber&type=1) validate-xdocs fails because it wants the literal & to be typed out as &amp;

instead. So I correct it to become:

[http://sourceforge.net/sflogo.php?group\\_id=comics-grabber&type=1](http://sourceforge.net/sflogo.php?group_id=comics-grabber&type=1) However, the generated HTML has the entity resolution UNDONE!:

[http://sourceforge.net/sflogo.php?group\\_id=comics-grabber&type=1](http://sourceforge.net/sflogo.php?group_id=comics-grabber&type=1) This HTML fails validation as 4.01 transitional.

David Crossley adds:

There is a demonstration of the problem in the document

src/documentation/content/xdocs/docs/dreams.xml The ampersand in the link element text is properly handled but the ampersand in the link href attribute is not.

## 13. [FOR-211] whole-site html and pdf: broken ext links

<http://issues.apache.org/jira/browse/FOR-211>

In the the generated site.html all of the external links are broken (i.e. the href attributes are like ... error:#ext:forrest).

## 14. [FOR-210] whole-site html and pdf: broken link faq, broken image links

<http://issues.apache.org/jira/browse/FOR-210>

The "fresh-site" build from 'forrest seed site' reports some failures for faq.html and various missing images. Wonder if sitemap issue?

## 15. [FOR-209] First level selected tab is not highlighted when containing 2nd level tabs

<http://issues.apache.org/jira/browse/FOR-209>

When there are two levels of tabs, the selected first level tab does not get highlighted, nor are there any other visual or structural clues as to which first-level tab is active, and which contains the displayed 2nd level tabs. This is checked with both the default skin, and with tigris-style.

## 16. [FOR-203] 2nd level tabs are not selected appropriately

<http://issues.apache.org/jira/browse/FOR-203>

The 2nd level tabs are not shown for menu entries that caused the issue `<a href="http://issues.apache.org/jira/browse/FOR-111" title="Seem to get all tab menus, not default tab's menus."><del>FOR-111</del></a>`. This happens because the `starts-with()` path comparison fails for menu entries that do not reside the same directory as is specified in the `<dir>` attribute of the 2nd level tabs. See the attached bug-demo.tgz for an example. Select `<code>Samples/Apache document</code>` and notice that the 2nd level tabs are shown. Now select `<code>Samples/BUG DEMO</code>` and notice that the 2nd level tabs are not shown. This is because the document corresponding to `<code>Samples/Apache document</code>` resides in the directory `<code>/samples</code>`, whereas the document corresponding to `<code>Samples/BUG DEMO</code>` resides in the directory `<code>/bug-sample</code>`. Kind regards,  
Lorenz Frohofer.

## 17. [FOR-200] Locationmap for Forrest and Users

<http://issues.apache.org/jira/browse/FOR-200>

The locationmap gives us the ability to specify where sources are, both for Forrest and for the users. Beware that it will not work for raw files that are not linked, as this "feature" currently uses a fixed dir being copied by Ant.

## 18. [FOR-546] Sitemap reference doc should be updated to reflect plugin architecture

<http://issues.apache.org/jira/browse/FOR-546>

The example at `<a href="http://forrest.apache.org/0.7/docs/sitemap-ref.html#pdf">http://forrest.apache.org/0.7/docs/sitemap-ref.html#pdf</a>` uses a fo2pdf serializer. This probably worked in versions < 0.7, because the PDF output feature was

in the core, and the serializer was very likely declared there. <br/> <br/> With version 0.7, PDF output is moved to a plugin, the fo2pdf serializer seems to be no longer there. The serializer should probably be added to the example, for completeness. <br/> <br/> <map:components> <br/> <map:serializers> <br/> <map:serializer name="fo2pdf"> <br/> </map:serializers> <br/> </map:components> <br/> <br/> I found out about this because my sitemap uses the fo2pdf too (docbook to PDF), and had to add the serializer.

## 19. [FOR-560] Remove duplicate jars from eclipse plugins

<http://issues.apache.org/jira/browse/FOR-560>

tools/eclipse/plugins/org.apache.forrest.eclipse.servletEngine/lib contains some duplicate jars to those in the main Forrest trunk. We should find a way of reusing the jars from their existing location.

## 20. [FOR-562] Update Plugins howto

<http://issues.apache.org/jira/browse/FOR-562>

The document at <a href="http://forrest.apache.org/docs\_0\_70/howto/howto-buildPlugin.html">http://forrest.apache.org/docs\_0\_70/ needs to be updated in the following ways: <br/> <br/> - remove warnings about instability <br/> - add details about creating plugins outside of FORREST\_HOME (mkdir PROJECT\_HOME/plugins, copy whiteboard/plugins/build.xml to PROJECT\_HOME/plugins, edit forrest.plugins.dir property) <br/> - update section on seeding a plugin to reflect working outside of FORREST\_HOME <br/> - remove the existing note about copying build.xml <br/> <br/> NB here should be no need to edit the forrest.plugins.dir, simply set it to '.' <br/> In addition the buil file template should really be provided from the plugins directory rather than the whiteboard dir <br/> <br/>

## 21. [FOR-645] patches for whitespace cleanup

<http://issues.apache.org/jira/browse/FOR-645>

Use this issue to provide patches for the whitespace cleanup.

## 22. [FOR-644] whitespace cleanup

<http://issues.apache.org/jira/browse/FOR-644>

We have much inconsistent whitespace in all of our files. This is known to cause trouble in a collaborative environment. See discussion at: <a href="http://marc.theaimsgroup.com/?t=112450901100001">http://marc.theaimsgroup.com/?t=112450901100001 and see the list at trunk/etc/whitespace-cleanup.txt <br/> <br/> This Issue will be used to announce which section of the repository is due to be cleaned next. Please keep discussion on that mail thread.

## 23. [FOR-726] use locationmap in all of the plugins

<http://issues.apache.org/jira/browse/FOR-726>

Each plugin has sitemaps that need to use the locationmap. <br/> <br/> (Perhaps we need Jira sub-tasks for each plugin.)

## 24. [FOR-721] entries without labels in site.xml are now being crawled and generated

<http://issues.apache.org/jira/browse/FOR-721>

In our forrest/site-author/content/xdocs/site.xml there are two entries without &quot;label&quot; attributes. Previously these documents were not being generated. Not sure if this change in behaviour is good or bad. Needs investigation. <br/> <br/> This is most likely a side-effect of the workaround for issue <a href="http://issues.apache.org/jira/browse/FOR-675" title="upgrading to commons-jxpath-1.2.jar causes failures with linkrewriter protocols site: etc.">FOR-675</a>

## 25. [FOR-677] leading slash in gathered URIs causes double the number of links to be processed

<http://issues.apache.org/jira/browse/FOR-677>

Doing 'forrest' starts at the virtual document called linkmap.html where the Cocoon crawler gathers the initial set of links, then starts crawling and generating pages. Any new links are pushed onto the linkmap. However, for some sites, such as our own &quot;seed-sample&quot; and our &quot;site-author&quot;, there is a sudden jump in the number of URIs remaining to be processed. <br/> <br/> This is due to a URI with a leading slash (e.g. /samples/faq.html). When that URI is processed, it gains a whole new set of links all with leading slashes, and so the list of URIs is potentially doubled. <br/> <br/> This issue could be due to a user error, i.e. adding a link that deliberately begins with a slash. Sometimes, that is unavoidable. <br/> <br/> However, we do have a sitemap transformer to &quot;relativize&quot; and &quot;absolutize&quot; the links. Should it always trim the leading slash? Or are there cases where that should not happen, so cannot generalise?