

History of Changes

Table of contents

1	Version 0.8-dev (not yet released).....	3
1.1	Changes to Documentation.....	3
2	Version 0.7 (2005-06-23).....	3
2.1	Changes to Project Administration.....	3
2.2	Changes to Build.....	3
2.3	Changes to the Code Base.....	3
2.4	Changes to Design.....	5
2.5	Changes to Documentation.....	5
3	Version 0.6 (2004-10-15).....	5
3.1	Changes to Project Administration.....	6
3.2	Changes to Build.....	6
3.3	Changes to the Code Base.....	6
3.4	Changes to Documentation.....	11
4	Version 0.5.1 (2003-10-06).....	11
4.1	Changes to Build.....	11
4.2	Changes to the Code Base.....	12
5	Version 0.5 (2003-09-13).....	12
5.1	Changes to the Code Base.....	12
5.2	Changes to Documentation.....	14
6	Version 0.4 (2003-02-12).....	14
6.1	Changes to the Code Base.....	15
6.2	Changes to Documentation.....	15
7	Version 0.3 (2003-01-30).....	15
7.1	Changes to Build.....	15
7.2	Changes to the Code Base.....	15
7.3	Changes to Documentation.....	17
8	Version 0.2 (2002-11-16).....	17
8.1	Changes to the Code Base.....	17
9	Version 0.2rc1 (2002-11-13).....	17
9.1	Changes to Project Administration.....	17
9.2	Changes to Build.....	18

9.3 Changes to the Code Base.....	18
9.4 Changes to Design.....	19
9.5 Changes to Documentation.....	19

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1. Version 0.8-dev (not yet released)

1.1. Changes to Documentation

- Added document to facilitate [upgrading to v0.8](#) (DC)

2. Version 0.7 (2005-06-23)

2.1. Changes to Project Administration

- Added testing facilities to plugins to facilitate integration testing. (RDG)

2.2. Changes to Build

- Changed Ant build property name "version" to "forrest.version" to prevent collisions with other build systems when using the Ant "import" task. (DC)

2.3. Changes to the Code Base

- Plugins are now version controlled. (RDG) Fixes [FOR-528](#).
- Added importance attribute to actions on status.dtd (JJP) Fixes [FOR-487](#).
- Added org.apache.forrest.plugin.input.listLocations plugin. Use lists of locations maintained in a simple xml format and transform them to documents. (DC)
- Added org.apache.forrest.plugin.input.dtdx plugin by moving functionality out of the core. Generates DTD documentation using a custom Cocoon Generator. (DC) Fixes [FOR-389](#).
- Changed plugin template location to {forrest.plugins.dir}/pluginTemplate in the build.xml of plugins/ and whiteboard/plugins/. That allows to create new plugins in the whiteboard/plugin/ directory. (TS)
- Activated multiple output formats to be configured via a View. (TS)
- Added viewHelper plugin and removed experimental leather plugin. Enhanced the documentation of view/viewHelper. (TS)
- Added contracts and nuggets to the "view" plugins. (TS)
- Created a new plugin org.apache.forrest.plugin.internal.view from the fbits core and removed the fbits plugin. (TS)
- Added proxy.host and proxy.port to allow plugin downloads from behind a proxy. (RDG) Thanks to Cyriaque Dupoirieux. Fixes [FOR-445](#).
- Added a plugin to handle input documents from Microsoft Excel. (RDG) Thanks to Johannes Schaefer. Fixes [FOR-373](#).
- Enabled XInclude in site.xml and tabs.xml (RDG) Thanks to Sjur N. Moshagen. Fixes [FOR-417](#).
- Added external plugin POD-input to allow Plain Old Documentation (POD) files to be included in a Forrest site. (RDG) Thanks to Ron Blaschke.
- Moved POD output from the common skin to its own plugin. (RFT)
- Added a text-output plugin. (RFT) Fixes [FOR-125](#).
- Added WYSIWYG editor as a plugin (only works in dynamic webapps). (RDG)
- Added photoGallery plugin. (RDG) Thanks to Jörg Werner. Fixes [FOR-387](#).
- Added capability to deploy directly to site in SVN using "ant deploy" from within plugin directory.

(RDG)

- Added to the document-v20 DTD to support "usemap" attribute in img tag. Also added demonstration of client-side imagemap to the "seed site". (DC) Thanks to Tamara Harpster. Fixes [FOR-322](#).
- Enable sitemap plugins. Plugins allow Forrest to have functionality added through the addition of small code blocks (plugins). Plugins are downloaded automatically when a site that requires them is built. See [Extending Forrest with Plugins](#). (RDG)
- The brokenlinks file now contains referer information. Upgraded lib/core/cocoon.jar and added attribute "show-referrers" to the Cocoon cli.xconf (DC) Thanks to Upayavira. Fixes [FOR-204](#).
- The "extra-css" from skinconf.xml is now inserted at the very end of the CSS. That enables it to properly override other elements. (DC)
- Fixed a bug with individual "credit image" placement in the pelt skin. If one credit was specified to be in the alternative location, then all credits were placed there. Also added a second alternative location. (DC)
- Generate html/head/meta elements from document-v2. (DC) Thanks to Mark Eggers. Fixes [FOR-482](#), [FOR-457](#).
- Fix broken links in Table of Contents when titles contain accented characters. (RDG) Thanks to Cyriaque Dupoirieux. Fixes [FOR-345](#).
- I18n uses org.apache.cocoon.matching.LocaleMatcher instead of i18n transformer. This requires that your source must now be foo.lang.xml instead of foo_lang.xml (JJP) Fixes [FOR-18](#).
- Fix various bugs with Lucene search. (DC) Thanks to Florian G. Haas. Fixes [FOR-246](#), [FOR-431](#).
- Fixed quotes in forrest.bat so forrest can be in a directory with spaces. (DB) Thanks to Gary Feldman. Fixes [FOR-330](#).
- LocaleAction changed its API. The "lang" value is "language" now. (JJP) Fixes [FOR-18](#).
- Ignore directory links for aggregations. (JJP) Fixes [FOR-370](#).
- Fixed some public identifiers (for DTD-v2.0) which were still pointing to old versions of DTDs. (DC)
- Stopped doing deletion of the cache-dir, so consecutive "forrest site" actions can be cached. (JJP)
- Merge xdocs and raw files in the same directory src/document/content/xdocs (JJP)
- Config check for the i18n attribute for i18n transformer so it is used only when necessary. (JJP) Fixes [FOR-18](#).
- Enhanced the Message of the Day (MOTD) facility. See skinconf.xml from a "seed" site for configuration details. Append a small text string after html title. Add text to a panel on the page. Select different messages depending on the URI string pattern. To use it, declare skinconfig-v07-1.dtd in your skinconf.xml file. (DC)
- Enable skinconf to specify optional page number format for PDF. (DC) Thanks to Cyriaque Dupoirieux. Fixes [FOR-355](#).
- Do not limit status.xml contexts in projectInfo plugin. (JJP) Thanks to Cyriaque Dupoirieux. Fixes [FOR-514](#).
- Split plugins.xml between plugins.xml in main plugins dir and whiteboard-plugins.xml in whiteboard/plugins and added relevant docs to plugins index page. (RDG)
- Added ability to add page breaks to output. See [Page Breaks FAQ](#) (RDG)
- * Uses skinconf.xml to determine background and border color for notes, warnings, and fixmes; * Uses skinconf.xml to determine background and border color for table cells (headers and data); * Honors headings type set in skinconf.xml (clean|underlined|boxed) and colors headings accordingly; * Uses skinconf.xml to determine font color for links. In addition, this patch extends the "link" template to also apply to the "fork", "jump", and "a" elements. (RDG) Thanks to Florian G. Haas. Fixes [FOR-430](#).
- Reinstate error reporting for broken "site:" and "ext:" links which are due to missing entries in site.xml or typos in site: links. The text "error:" is also prepended. This is a workaround for bug FOR-284 "link rewriting broken when linking to xml source views which contain site: links". This

latter issue is handled by the core. However, if your project uses a Cocoon [cli.xconf](#) then you will need add the same "exclude" entries. (DC) Fixes [FOR-284](#).

- Handle FAQs sections and faqs with both howto-v1.* and howto-v2.* docs. Apply proper section numbering. (DC) Thanks to Mark Eggers. Fixes [FOR-479](#).
- Added FAQ about "pageBreakBefore" and "pageBreakAfter" class int PDF documents and describe how to enable the page break behaviour in HTML documents. (RDG)
- Use "pageBreakBefore" and "pageBreakAfter" class to sections to force a page break in PDF output. (RDG)
- Moved status "changes" and "todo" page generation to the org.apache.forrest.plugin.input.projectInfo plugin. (RDG)
- Updated nekodtd to 0.1.11 (AG)
- Update fop-0.20.5 just with optional jimi support. This fixes the issue building the Apache FOP site. Replace libraries to use the cocoon-2.2.0-dev version. (JJP)
- [Java 1.4 is required](#) starting with Forrest-0.7-dev (DC)

2.4. Changes to Design

- Images group.svg and project.svg were rendered with the shadow effect slightly clipped. Needed to add width and height to filter element. (TS) Thanks to Kevin. Fixes [FOR-477](#).

2.5. Changes to Documentation

- Added document to facilitate [upgrading to v0.7](#) (DC)
- Removed the leather-dev docs and added the begining of the View plugin docs. (TS)
- Added [How to customize processing of html source](#) (DC) Thanks to Ferdinand Soethe. Fixes [FOR-446](#).
- Added [How-To Run Forrest from Maven](#). (RDG) Thanks to Ian P. Springer. Fixes [FOR-369](#).
- Added [How-To Build a plugin](#). (RDG)
- Split plugin documentation between [user](#) and [developer](#) topics. (RDG)
- Added HowTo about [editing CSS](#) in a WYSIWYG fashion using Mozilla Firefox and its Edit-CSS plugin. (RDG) Thanks to Ferdinand Soethe.
- Added custom xml sample and project sitemap to the 'forrest seed site'. (JJP)
- Added [How to modify the color of generated corner images](#). (DC) Thanks to Stephan E. Schlierf. Fixes [FOR-351](#).
- Added links to example websites to demonstrate each available [default skin](#). (DC)
- Rewrote example of raw content in fresh-site to correctly document the behaviour in 0.7. (RDG) Fixes [FOR-470](#).
- Removed ihtml example from fresh-site and replaced with an example of embedded HTML. The use of ihtml is now deprecated in favour of embedded HTML. (RDG)
- Allow the serving of raw SVG files to allow clients to render locally. (RDG) Fixes [FOR-185](#).
- Plugin docs are now upated automatically when a plugin is deployed. Alternatively you can update the docs independantly by running the deploy-docs target in the plugin directory. (RDG)
- Removed old versions of pre-release plugins following renaming to the convention defined in [Plugin Infrastructure](#). (DC)
- Added FAQ to explain character encoding for certain languages. (JJP) Thanks to Joao Ferreira. Fixes [FOR-305](#).
- Updated How-To: [How to create a PDF document for each tab](#) to create subject-specific aggregated documents. (TS)

3. Version 0.6 (2004-10-15)

3.1. Changes to Project Administration

- Moved forrestbot2 from scratchpad into main. Uses ant 1.6's 'import' task instead of XSLT/ant. Webapp completely rewritten to use JSTL, Struts, Java utility classes, and OpenSymphony's OSUser for flexible authentication. (DB)

3.2. Changes to Build

- New 'clean-dist' target for build.xml, which is now the default target. (DB) Fixes [FOR-108](#).
- The 'validate-site' build target will validate the intermediate xdocs. (JJP)
- Support running Forrest on Win9x. (DB) Thanks to Pierrick Brihaye. Fixes [FOR-113](#).
- Don't copy unneeded project files in 'war' and 'webapp' targets. (DB) Fixes [FOR-207](#).
- Add more descriptions to forrest targets. Highlight the most common ones. (DB) Fixes [FOR-216](#).

3.3. Changes to the Code Base

- getMenu.js - fixes a path issue and the double click behaviour of pelt. (TS)
- Explained the usage of the extra-css element in skinconf.xml of the fresh site. (TS)
- Initial Chaperon grammar for minimal MoinMoin Wiki to Forrest xdocs transformation. Source documents use the *.moinwiki filename extension. (DC) Thanks to Fabio Rinaldi. Fixes [FOR-268](#).
- Requesting linkmap.html Forrest now renders the site.xml file as a table of contents. (NKB)
- Now the *.ihtml and *.cwiki extensions are deprecated. To get the same functionality it is recommended to switch to *.html and *.jspwiki. With this it's now possible to have a site in simple html, edited with any html editor. The *.jspwiki extension was put to make it clear what the format is about. (NKB)
- New project sitemap extension mechanism. Now it is possible to add a project sitemap that plugs into the processing at the beginning. If the requested url is resolved by it, it will serve the file directly. If the requested url with the extension changed to xml is matched, then Forrest will use that result as the intermediate format and render it. This will enable project-specific sitemaps to not collide with future Forrest updates. (NKB)
- Added configuration for XMLMind XML Editor to scratchpad. Originally from splike.com (DB)
- Automatically add some meta elements to head of html (Generator name, Forrest version, skin name) (DC)
- Optional feedback link for the footer of all skins. (DC)
- New output format for POD (the Perl community's Plain Old Documentation) triggered using the .pod filename extension. Initial work, needs enhancement. See [forrest-dev discussion](#) (DC) Thanks to Rick Tessner.
- Eclipse plugin code added to scratchpad (donated by [Burrokeet](#)). Initial work, needs enhancement. (RDG)
- Added forrestbot deploy.svn implementation. (DB) Fixes [FOR-219](#).
- The new "pelt" skin (uses CSS and div). See notes about [Default skins](#). (TS) Fixes [FOR-182](#).
- In skinconfig, add box-location attribute to search element. (DB) Fixes [FOR-142](#).
- Locationmap modules added. Not in use yet. (NKB) Thanks to Unico Hommes.
- Forrestdoc code added to scratchpad; previously was [Jakarta Alexandria](#) (NKB)
- Add <copyright-link> element to skinconf (DB) Fixes [FOR-120](#).
- New stylesheet to import the original cocoon.xconf file (JJP)
- Move context targets from forrest.build.xml to targets/context Use skinconf DTD. Use xmlvalidate for skinconf. Create upgradeskinconf.xsl for old skinconf.xml files (JJP)
- The language alternative div displays language in your own language. (JJP)

- Docbook support for refentry element and it's children. Generally used for man pages. (DB)
- Do not create ToC unless it has been defined on the skinconf. Change level attribute to max-depth attribute. Add a min-sections attribute to define a minimum number of sections before create a toc. (JJP)
- Add Language alternatives div. To test it: i18n-foo.html (JJP)
- Page size and orientation for pdf. (JJP) Thanks to Florian G. Haas. Fixes [FOR-112](#).
- Added SkinconfTransformer, that augments the skinconf.xml by adding these attributes to colors if not present: @highlight, @lowlight, @font, @link, @vlink, @hlink. (NKB)
- Now skins can get a stab at enhancing skinconf.xml, by placing a skinconf.xsl file in the skin directory. By default some values are added by the common skin, like default Forrest colors. (NKB)
- Add support for Openoffice Writer 1.1 files. (RP)
- Fixes to the krysalis skin to bring it up to snuff. Added lateral search bar. Added credits section. Use automatically skinnable borders Fix code font size. Other small enhancements. (NKB)
- New "extra-css" tag in skinconf can contain css that is injected in forrest.css, added in the skins by default. (NKB)
- New section in skinconf about colors used by the site. Enabled for krysalis-site and tigris-style. If a needed color is not specified, the default one is used. (NKB)
- Now skin resources can be generated from skinconf.xml from xslt. For example '/myskin/css/my.css.xslt' is used by forrest on 'skinconf.xml' to get 'my.css' (NKB)
- It is now possible to have two levels of tabs. (NKB) Thanks to [Ross Gardler](#). Fixes [FOR-98](#).
- External links are now identified by a small trailing icon. The icon can be overridden by the skin and the behaviour can be disabled in skinconf.xml. (NKB)
- Added new 'tigris' skin, by using exactly the same skin version 1.1. from the project Style at <http://style.tigris.org/>. This will completely replace the avalon-tigris skin in subsequent versions. The avalon-tigris skin is to be considered deprecated and no longer developed. (NKB)
- Properties from \${user.home}/forrest.properties are loaded, after the project's forrest.properties and before the default-forrest.properties are. (DB)
- New file format: '.aart'. These are text files that are converted automatically be Cocoon in SVG, if requested with a '.png' extension. (NKB)
- Now images are generated from the xdocs content dir as if they were in the resources/images dir. The latter will be phased out. (NKB)
- Added a new property to forrest.properties (project.raw-content-dir=\${project.content-dir}/content) to define where raw files are to be served from. Also removed the internal property real-content.dir that was used internally for this and replaced it with a raw-content.dir property. (NKB)
- Patch facility to be used by any contributor (From Ant's project). To use it run "build.[sh|bat] patch". (JJP) Thanks to [Jan Materne](#).
- Skins can now be packaged, downloaded and automatically installed. See [documentation](#). (NKB)
- First I18n integration for menus in forrest. (JJP) Fixes [FOR-9](#).
- Integrate Lucene on Forrest. Check the bug report for more info. (JJP) Thanks to [Ramón Prades](#). Fixes [FOR-9](#).
- Added XSP support. For old sitemap.xmap add this tag: <map:generator name="serverpages" src="org.apache.cocoon.generation.ServerPagesGenerator"/> (JJP) Fixes [FOR-56](#).
- docbook2document.xsl: remove unnecessary / from template matches. (JJP) Thanks to Sean Wheller. Fixes [FOR-317](#).
- docbook2document.xsl: docinfo element. never in OASIS Docbook XML DTD (JJP) Thanks to Sean Wheller. Fixes [FOR-316](#).
- docbook2document.xsl: handle the xref and xreflabel. (DC) Thanks to Sean Wheller. Fixes [FOR-308](#).
- Proper positioning of icon/links for PDF, XML, POD, Print content options on pelt skin. (DC)

Thanks to Arturo Vazquez.

- Allow forrest to run in a project directory with a space in the name. (DB) Fixes [FOR-267](#).
- Openoffice2forrest: add support for merged cells in tables. (JJP) Fixes [FOR-262](#).
- Fixed the domain bug of the searchbox in pelt. (TS)
- Fixed the menu in pelt by adding getMenu.js and changing the site2xhtml.xsl. Now the chapter image will get expand again. (TS)
- Relative URIs with absolute paths were broken in the site.xml linking mechanism. (DC) Fixes [FOR-268](#).
- Re-write the Chaperon grammar for JSPWiki to address ambiguity with paragraphs and sub-sections. (DC) Thanks to Fabio Rinaldi.
- JCS log messages go through cocoon instead of to stdout. (DB) Fixes [FOR-214](#).
- Generate proper html for figures in simplified docbook. (DB) Thanks to Johannes Schaefer. Fixes [FOR-226](#).
- PDF pages receive skinconf properly (through the skinconf pipeline). (DB) Fixes [FOR-138](#).
- FAQ page does not need to provide it's own extra index. (DB) Fixes [FOR-154](#).
- Brokenlinks file is now generated in project.home rather than forrest.home (JJP) Fixes [FOR-165](#).
- Add missing xdocs from the validate.exclude property. Allowing to exclude files. (JJP) Fixes [FOR-130](#).
- Improved resolving image references in PDFs. (DB) Fixes [FOR-114](#).
- Now CSS files are parsed internally, so that the urls are included in the static site generation. (NKB)
- Lucene-index target works. If search@provider="lucene" is set create a search index. Build site and run targets as per project directory instead of forrest.home. (JJP)
- Moved all references to //skinconfig out of the document2html.xsl into the site2xhtml.xsl file. * Rationalized the Table of Contents stuff by creating a "toc" mode in the common/xslt/html/document2html.xsl. That is then used to generate the per-page ToC and the ToC attached to the menu. * Removed extraneous default xsl matchers on the non-common document2html and site2xhtml XSLs. This allows matches defined in the imported transformation sheets to match (imported sheets have lower precedence). * Defined a couple of <div id=" . . . "> place holder tags used by the document2html. Those are then skinned by the site2xhtml sheets. * Note: If you have your own skins that were referencing "\$config" or "//skinconfig" in the document2html.xsl then you need to make similar changes. * For more information see the FOR-146 issue report. (DC) Thanks to Rick Tessner. Fixes [FOR-146](#).
- Remove misleading error message. Reported a cocoon bug #28939 (JJP)
- skinconf was being ignored for the svg and fo formats. (JJP) Fixes [FOR-139](#).
- "Warning" was mistakenly labeled as "Note" in PDF. (JJP) Thanks to Nick Chalko. Fixes [FOR-136](#).
- site2book.xsl handle all menu-item and menu attributes (JJP) Fixes [FOR-69](#).
- Proper table around 'graphic' in simplified docbook. (DB) Thanks to Rob Exley. Fixes [FOR-115](#).
- Replace document() function to get skinconf values and use "//skinconfig". Fix order so it can validate skinconf. Use <search/> instead of <disable-search/> <disable-lucene/> <searchsite-domain/> <searchsite-name/>. Fix skinconf.xsl so it produces a proper skinconf (JJP)
- Updated jetty to 4.2.19 (AG)
- Update scripts and config files to allow upgrade to cocoon 2.1.5-dev (JJP)
- Stop overwriting skinconf and cocoon.xconf on webapp target. Libs were not copied on the webapp target. (JJP)
- ToC element is optional on skinconf. (JJP)
- Allow a full url image to be included on a pdf file. Use only tmp as the temporary directory. (JJP)
- Split build file in various parts (webapp,war,validate,site) (JJP)
- Move ant + Jetty under tools on the build target (JJP)

- Wrong directory being used for wiki grammars. (JJP)
- Now skins that are edited in place have their non-traversable resources also copied for static rendering. (NKB) Thanks to [Ross Gardler](#). Fixes [FOR-87](#), [FOR-88](#).
- DHTML menus in Krysalis skin now work on all levels. (NKB) Thanks to [Ross Gardler](#). Fixes [FOR-86](#).
- Wrong default value for translations directory. (JJP)
- Fixed the handling of images and resources in the resources.xmap pipeline, to cater for the new system that does not copy docs prior to rendering. (NKB)
- Fixed bug in the autodownload support for skins that was preventing custom skins in the project source dir from working. (NKB) Thanks to [Sebastian Bergmann](#).
- Added default translation for menu on fresh-site so it is used when the user locale can not be found. Synchronized some I18n labels after a modification on fresh-site. (JJP)
- Patched directory2book.xsl to be able to serve raw documents from the side menu (e.g. pdf); previously it always generated .html links. (NKB) Thanks to [Eric BURGHARD](#).
- Skins "forrest-css" and "avalon-tigris" are deleted. The "tigris-style" is renamed to "tigris". Aliases set in place for backward-compatibility. The old "forrest-site" and "krysalis-site" skins are retained for a little while longer, but are deprecated, so please move to one of the other skins. See notes about [Default skins](#). (DB) Fixes [FOR-181](#).
- Remove 'template' skin; better to base a new skin on an existing one. (DB)
- Clean up first Lucene search implementation in Forrest. (JJP)
- The .html files have been deprecated. Use .ihtml instead. Future html input support will be based on [this discussion](#). (DB) Fixes [FOR-131](#).
- Revert the changes to access skinconf using "skinconf/" done on r10259 (JJP)
- Forrest-targets with ant proxy is obsolete; use forrestbot now. (DB) Fixes [FOR-140](#).
- Updated commons-collections to 3.1, commons-logging to 1.0.4, jcs to 1.1-dev.20040811, lucene to 1.4.1 (AG)
- Enable email address obfuscation to be configurable using the obfuscate-mail-value option in skinconf.xml (DC) Fixes [FOR-122](#).
- Enhance the document2pod functionality to handle many other elements and enable the link to this format to be configured via skinconf. See the issue report for some notes. (DC) Thanks to Rick Tessner. Fixes [FOR-240](#).
- Updated Ant 1.6.2. (AG)
- Have @class attribute in DTD for every element, which enables the "extra-css" section in the skinconf to be put to good use. Updated all v1.2 DTDs to become v1.3 DTDs (forward compatibility: v1.2 docs will work fine as V1.3). Updated the v2.0a DTDs to become v2.0 DTDs (forward incompatibility: v1.2/1.3 docs are not forward-compatible as V2.0). Added demo of extra-css to the seed site and updated some sample docs to use new v1.3 DTDs. See the [samples and reference docs](#). See the issue report for full list of changes. (DC) Thanks to Rick Tessner. Fixes [FOR-174](#).
- Projects can use a local CatalogManager.properties to declare additional Catalogs for DTDs and other entities. (DC)
- Improve look of PDF pages. (DB)
- Fix relative links and image references in aggregate pages. (DB) Fixes [FOR-148](#).
- Worked search functionality into all skins. Fixed query parameters for Google site search. Lateral search box was incompatible with new skinconf.xml format. (JJP) Thanks to Florian G. Haas. Fixes [FOR-9](#).
- Upgrade to cocoon 2.1.5 (JJP)
- Removed author and cvs-id tags from code and xdocs. (DB) Fixes [FOR-123](#).
- Repack Jetty without JSP support. Now we can remove org.apache.jasper.jar (JJP)
- Forrest does not copy anything around anymore. The only step to make it work is to have java compile the forrest jar; all other resources are used in their original location. (NKB)

- Jetty jar was mistakenly compiled for jdk 1.4 - now re-compiled for jdk 1.3 (JJP)
- 'build patch' command updated for SVN. (DB) Fixes [FOR-137](#).
- Completely rewritten Lucene-based index and search functionality. (JJP) Thanks to Florian G. Haas. Fixes [FOR-9](#).
- Converted repository from CVS to SVN. (DB) Thanks to Apache Infrastructure.
- Upgrade to batik 1.5.1 (JJP)
- Add i18n to single file content. (JJP)
- Updated Ant 1.6.1 (AG)
- Add i18n to tabs. (JJP)
- Putting a jettyconf.xml file in your document directory will override the one supplied in the default Forrest context. Also no longer copies jettyconf.xml to build dir (one more file closer to no copying ;-)) (RDG)
- Support multiple skin descriptor files via the forrest.skins.descriptors property (DB)
- Libraries are not copied anymore in the servlet context of the dist and of the project being built; they are added instead to the classpath of jetty for the 'run' target and of the Cocoon CLI for the default 'site' target. (NKB)
- Upgrade to Jing 20030619. (JJP)
- Validation is now "dynamic", by setting the parser feature "http://apache.org/xml/features/validation/dynamic". This means that documents with DTD are fully validated, while documents without DTD are just checked for well-formedness. (NKB)
- Removed xml2xhtml.xsl import in profile2page.xsl that was not used (file not present). (RDG) Thanks to [Juan Jose Pablos](#). Fixes [FOR-59](#).
- New build target to build a webapp that can be distributed. "war" target depends on "code" which will produce an deployable webapp, "run" target depends on "webapp-local" which leaves many files in the project directory to ease editing (e.g. src, resources and skins) (RDG) Fixes [FOR-98](#).
- Upgrade to cocoon 2.1.3 nekohtml 0.1.9 remove excalibur-concurrent-20020820.jar remove excalibur-cli-1.0.jar remove excalibur-datasource-vm12-20021121.jar remove jakarta-oro-2.0.6.jar (JJP)
- Instead of forrest-targets.ent with Ant 1.6 Forrest can now also be used with the new import facility: `<import file="forrest-targets.xml"/>` (NKB)
- Automatic generation of borders from skin colors and naming convention. Rounded and straight 45 degrees corners supplied. For example, to generate a 'rounded corner for 'top left the size of '5' pixels of background 'header', foreground 'tab-selected' and border of 'tab-unselected' I can just ask for: /skin/images/rc-t-l-5-1header-2tab-selected-3-tab-unselected.png (NKB)
- Removed all validation includes and excludes from the fresh site, except the most basic one. This means that the feature is to be considered deprecated. (NKB)
- Updated Ant 1.6.0 (AG)
- Refactored forrestbot to organize workstages and their implementations. Properties named by workstage and implementation for clarity and to prevent conflicts. (DB)
- The 'clean-site' target appears in 'forrest -projecthelp'. Deletes temp, webapp, and brokenlinks files too. (DB)
- Updated and separated in their directory all the resources needed by Chaperon, and make the pipeline generate the xml grammar versions if unavailable. This fixes some wiki rendering bugs and makes sections follow the correct level nesting. (NKB)
- Now also all forrest /resources are editable in forrest.home and translations in their source space. (NKB)
- Skins are now editable directly in FORREST_HOME. (NKB) Thanks to [Ross Gardler](#). Fixes [FOR-85](#).
- Updated Entity Resolver from pre-release to official xml-commons-resolver-1.1 release. (DC)
- Updated Jetty to 4.2.14 (JJP)
- Removed the deprecated Ant @tag@ substitution method for skins to reduce copying further.

(NKB)

- All resources in skins/common/images/scripts are used if the corresponding resource is not found in the skin being used. Moved under these dirs the images and the scripts that were placed by default under resources/images or copied in each skin, and added a temporary sitemap rule to route the request of the images to the new location. (NKB)
- Moved the images of fresh-site to the src/content/xdocs directory, for the new layout that has been decided on forrest-dev. (NKB)
- Major update to inner working of the krysalis-site skin: - removed all use of the spacer.gif image - replaced all visual enhancement icons with css icons - fixed CSS and html validation - reduced final output size, - removed all font tag usage in favor of css - added aural (speech) style in css - reduced usage of nested tables - refactored main xhtml stylesheet to be more clear and maintainable - refactored css to have a single small place where to define the skin colors - changed icons to original icons (made by me and not gotten from elsewhere) - removed unused icons. - made location of minitoc configurable as "page", "menu", or "both" (NKB)
- Removed duplicated copying of files during the creation of the distro. Now the command-line context dir is like the webapp context dir. This reduces Forrest build time from 53 to 19 seconds on my system. (NKB)
- Added support for docbook version 4.1.2. Allows importing files from various editors (Open office, Abiword). (JJP)
- Added German Translation for menu in fresh-site example seed. (JJP) Thanks to [Jan Materne](#).
- Added creation of TOC support on PDF files. Improved so it uses value from skinconfig.xml. Improve algorithm to define font size for section/subsection/... (JJP) Thanks to [Eric Burghard](#).
- In the generated "changes" document, add "version_" to section@id as required by document-v12. Sort action types order to "add", "remove", "update", "fix". (JJP)

3.4. Changes to Documentation

- Added a How-To: [Generate an ASF mirrors page using interactive web form](#) using ihtml to include additional html form elements. (DC)
- Added a How-To: [How to create a PDF document for each tab](#) to create subject-specific aggregated documents. (TS) Thanks to Stephan E. Schlierf. Fixes [FOR-218](#).
- Created the [How-To](#) section of the documentation. Continue Dianna Shannon's good work with designing the DTDs, concepts, and documentation effort at Cocoon. (DC)
- Added a mechanism to enable impoverished XML tools that do not use the Catalog Entity Resolver to fetch the DTDs direct from the website. See [upgrading to v0.6](#) Please help to upgrade our /dtd/.htaccess file (see issue FOR-107) and please help to address the SVN Issue [1233](#). (DC) Fixes [FOR-107](#).
- Added new documentation about [Searching Forrest-built documentation](#) which describes both Lucene and Google search. (JJP) Thanks to Florian G. Haas. Fixes [FOR-9](#).
- Information about the new [forrest-user](#) mail list. (JJP)
- Began documentation for new forrestbot; moved stable forrestbot docs (DB)
- Replace URLs in all docs to be <http://forrest.apache.org/> (JJP)
- Forrest is now a top-level Apache project. The new website is at <http://forrest.apache.org/> (DC)

4. Version 0.5.1 (2003-10-06)

4.1. Changes to Build

- forrest.antproxy.xml script now properly fails when Cocoon fails (JT)

4.2. Changes to the Code Base

- Added obfuscate-mail-links skinconf.xml option, on by default. (JT) Fixes [FOR-67](#).
- Upgrade to Cocoon 2.1.2, which fixes a bug that caused some pages in a site not to be rendered from the command-line, and has some cosmetic improvements. (JT) Fixes [FOR-66](#), [FOR-62](#).
- In skinconf.xml, made project-description optional to keep compatibility with 0.4. (JT)
- Fix forrest-site tables bug that broke Opera (JT) Fixes [FOR-65](#).
- Fixed URLs for comma-separated bug keys in status.xml (JT)
- Fix bugs in forrest.bat|sh scripts encountered when used in odd environments (perl and Win9x). (JT) Fixes [FOR-47](#), [FOR-48](#).
- The 'forrest' command no longer sources /etc/antrc and ~/.antrc, which solves problems on some *nix distributions. (JT)

5. Version 0.5 (2003-09-13)

5.1. Changes to the Code Base

- Added @label support for note and warning elements. (SN)
- Added ability to have version-specific overridden sitemaps. For example, src/documentation/sitemap-0.5.xmap will be used by Forrest 0.5 in preference to any others present in the same directory. This means a site with overridden sitemaps can build with Cocoon versions expecting different sitemap formats. (JT)
- Comma separated bugs have a link to bugzilla systems. (JJP) Thanks to [Joerg Heinicke](#).
- Now the Krysalis skin has javascript-collapsible menus. (NKB)
- Added a text2document.xsl stylesheet. Convert to unix format so it stop EOL character. Simplify so it does not use chaperon format. format. (JJP) Thanks to [Dave Brondsema](#).
- Added alternative menu/tab selection algorithm, that uses tab attributes in site.xml instead of relying on physical site structure (directories). (JT)
- Added a `forrest.maxmemory` property specifying the maximum amount of memory allocated to the JVM. Useful for rendering large PDFs. Added `forrest.jvmargs` property for other JVM options. (JT)
- On krysalis skin: users can select font size, reworked left-bar inclusion of page section titles, made them only one level deep, moved buttons after the left navbar, added publish date on top right navbar. For both Forrest and krysalis skins, added single background pixel line below unselected tabs and made selected tab more prominent. (NKB)
- Added XInclude capability to the documents. Remember to disable validations for files with xincludes as the xinclude is not performed during validation. (NKB)
- Added DocBook 4.2 and simplified DocBook 1.0 to the schemas and to the validation catalogue. Added Docbook and simplified Docbook rendering capability for documents. (NKB)
- Fixed java.lang.reflect.InvocationTargetException caused by catalog DTD HTTP lookup. The build had an extra and older resolver.jar (DC)
- Fix character return on line feed for fresh-site on the zip distribution (JJP) Fixes [FOR-31](#).
- New property "bugtracking-url" to allow a bug tracking systems other than bugzilla. (JJP)
- Added a "forrest clean" task that removes the project build directory. (JJP) Thanks to [Eirik Bjørnsnøs](#).
- Support for version, type and notice on html format. (JJP) Thanks to [Eirik Bjørnsnøs](#).
- Style information on the common skin. (JJP) Fixes [FOR-34](#).
- build directory created in wrong directories. (JJP) Thanks to [Ross Gardler](#). Fixes [FOR-46](#).
- On fresh-site: Synchronize size for group and project logo. Added description on site.xml elements

- so it displays tooltip. (JJP)
- Remove errors for fopx:bookmarks element. (JJP) Fixes [FOR-43](#).
- Allow images to scale on pdf output. (JJP) Thanks to [J.Pietschmann](#).
- Docbook table header is shifted one column. (JJP) Thanks to [Ringo de Smet](#).
- ihtml now works again. Had to add a jtidy configuration that prevented it to output tidies html to the pipeline, thus making the stylesheet unusable. Also had to fix the sitemap schema. (NKB)
- Cleanup maps:components definitions on sub-maps. Remove indent attr from the xsl:output as it is define on serializer. Move xsl:output for *2document.xsl to "xml-document" serializer. (JJP)
- abstract element was ignored for html output. (JJP) Thanks to [Eirik Bjørnsnøs](#). Fixes [FOR-51](#).
- Unescape strings, so they display properly on the trail for all skins. (JJP) Thanks to [Ramón Prades](#).
- Use sync task to clean the tmp directory for xdocs. (JJP) Thanks to [Dave Brondsema](#). Fixes [FOR-49](#).
- Stopped the rewriting of extensions. (JT)
- Fixed bug that showed the krysalis-site skin in IE browsers from a remote site to start with a font size of 100. Also made the font size script kick in at the start of the page rendering, as before it resized only after all the page was loaded, which was not nice to say the least. (NKB)
- In PDFs, section titles are no longer numbered/reduced in size indefinitely. (JT)
- Make FAQ 'Questions' section more legible, and avoid duplicate numbering in FAQ PDF. (JT)
- Links to subdirectories no longer blow up the command-line rendering. (JT)
- Enable link rewriting for *.ehhtml files. (JT)
- Enable link rewriting for images and figures (@src attribute). (JT)
- Get breadcrumbs working in Mac IE 5, and don't capitalize the first letter of each link in the forrest-site skin. (JT) Thanks to [Stefan Bodewig](#).
- Fixed bug where absolute paths to images were created in the build/site directory. (JT)
- Get the Wiki syntax support working again. (JT)
- Fixed rendering of images in PDF for images not located in the resources/images dir. (SN)
- Add automatic (doctype-triggered) handling of todo and changes XML files, regardless of file name or location in the directory tree. The root changes.html and todo.html files are still generated from status.xml. (JT)
- In skins/common/xslt/html/tab2menu.xsl, renamed template 'unselected-tab-href' to 'calculate-tab-href', potentially breaking 3rd party skins. (JT)
- Fix menu bug where links with #fragment identifiers wouldn't display. (JT)
- Get images in PDFs working with FOP 0.20.x. This requires the user to download jimi.jar from [Sun](#) and place it in the lib/core (src distro) or WEB-INF/lib (binary distro) directory. (JT)
- On krysalis skin: fixed print css, also using text instead of logos and adding the footer, and changed link colors to blues and red for active links. (NKB)
- Fixed java.lang.NoClassDefFoundError: javax/servlet/ServletInputStream error. (JT) Thanks to [Juan Jose Pablos](#).
- Allow users to determine which URLs Forrest should ignore, by overriding stylesheets/filterlinks.xsl (and other stylesheets in that directory). (JT)
- Docbook stylesheet improvements. (JT)
- Fix a bug with forrest.antproxy.xml introduced in 0.4, which caused unresolved '\${project.home}' variables. (JT)
- In the forrest-site skin and derivatives, display the author and version at the bottom of the page, as krysalis-site does. Also added parsing for CVS Revision tags, so <version>\$Revision: 1.288 \$</version> can be used. (JT)
- Added email template for html content in common skin. (JJP) Thanks to [Dave Brondsema](#).
- Add description to {group, project} logo. (JJP) Fixes [FOR-23](#).
- Switched off skinconf.rnc validation to promote better forwards-compat. (JT)
- Upgraded to Cocoon 30/08/2003, now with ability to exclude URLs from being processed, in cli.xconf. (JT)

- Add "title" attribute to menu item links using the "description" attribute from entries in site.xml or book.xml (DC) Thanks to [Ralf Hauser](#). Fixes [FOR-20](#).
- The generated Tables of Contents can be configured to show a certain number of section levels. Default is two levels. Level 0 means show no ToC at all. See the fresh-site skinconf.xml for example usage. (DC) Thanks to [Ramón Prades](#).
- New 'expand-dtd' target for generating monolithic DTDs suitable for use in catalog-ignorant XML editors such as IDEA. (JT)
- site.xml changes now picked up without requiring a reload of the webapp. (JT)
- Updated to Cocoon 20/7/03, and use the new command-line (cli.xconf), which makes Forrest static rendering more than twice as fast as before. (JT)
- New Icons. (NKB) Thanks to [Frederic Robesyn](#).
- Updated Cocoon to -D "2003/06/22 12:00". This fixes a bug where files with unknown extensions were written with 'null' appended to their filename. (JT)
- Allow any sort of content inside resources/, which will be made available to the sitemap but not automatically copied to the generated site output. (JT)
- Add a flag for email obfuscation, and turn it off by default. (JT)
- Upgraded FOP from 0.20.4 to 0.20.5. (JT)
- Upgraded Cocoon to M2. (JT)
- The 'backcopy' command will now copy all types of custom content (*.xmap, skinconf.xml, xdocs, images, stylesheets, DTDs). (JT)
- Add a @indexfile attribute to tabs.xml, so that the user can specify which file the tab links to. (JT)
- Add <elaborate> to the FAQ <question> element, which lets one provide some background (elaboration) in the FAQ body without cluttering the FAQ list. (JT)
- Allow plain text (instead of just block-level elements) in the FAQ's <answer> element. (JT)
- Created new document-v12 DTD module, containing all DTD improvements made since 0.4 was released, and use it to define new v12 versions of all DTDs (document, howto, faq, etc). The doc-v12 DTD removes many restrictions in the DTD that were found to be unnecessary, and is closer to the HTML content model. A list of changes can be found in [the doc-v12 sample page](#). (JT)
- On the forrestbar, added a community menu, made 'AskSam' a resources submenu, moved the search part to the right. (NKB)
- On krysalis skin: fixed left navigation bar icons and sizing using divs instead of list elements, made all links underlined, added space to the bottom of the page text, and changed font increase-decrease links to buttons. (NKB)
- Enabled multiple output links on each page (print - pdf - xml) They can be enabled by adding the relative disable-*-link elements and setting them to false. (NKB)
- Upgraded to 2003-03-11 version of Cocoon (JT)
- Forrestbar is now [Phoenix](#) compatible. (NKB)
- Added links for both possible local forrests (port 8080 and 8888), and make them configurable in properties.xml. Thanks to Mark Vovsi for pointing it out. (NKB)
- Refactored the "transform-to-document" sitemap resource to do the the xinclude, linkrewriter, and idgen steps. (NKB)

5.2. Changes to Documentation

- Added new document to facilitate upgrading to v0.5 (JT)

6. Version 0.4 (2003-02-12)

6.1. Changes to the Code Base

- Added a minimal template skin. (JT)
- Use meaningful fragment identifiers in krysalis-skin. (JT)
- Correctly ignore @role='pdf' credits in HTML (JT)
- krysalis-site skin now works better with multi-level menus. (NKB)
- Normalize space in acronym titles. (JT)
- Make the forrestbot shell script work under Cygwin. (MP)
- Got skins working in the forrestbot. (JT)
- The problem with starting a new forked JVM is that all properties get lost. This makes it able to use one forrest.properties for all multiple projects, and just create the docs from there. (NKB) Thanks to [Berin Loritsch](#).
- The menu is now limited to only pages in the current subdirectory and below. (JT) Thanks to [Bernhard Brandmair](#).
- Added the cwiki stylesheets that were missing and an example in the fresh site seed. (NKB) Thanks to [Cathy Zura](#).
- Correctly serve swf files. (JT)
- Fix site: and ext: rewriting in book.xml, ihtml, ehtml and cwiki files in subdirectories. (JT)
- Added the CSS validation logo, fixed all skins' CSS to validate, minor fixes due to the switch to full HTML-loose DTD. (NKB)
- Make the forrest-site and krysalis-site skins more printer friendly by using CSS media type to hide navigations. the avalon-tigris skin already works well, the forrest-site one still needs tweaking. (NKB)
- Use full loose DTD specification for html pages. This also makes the avalon-tigris skin show the same in Mozilla and IE. (NKB)
- Switched all loglevels to ERROR. (NKB)

6.2. Changes to Documentation

- Added page for ForrestBar on the site with a simple link and an autoinstall link to the forrestbar.xpi generated by Gump every day. (NKB)

7. Version 0.3 (2003-01-30)

7.1. Changes to Build

- Allow configuration of a project local-catalog and the entity resolver verbosity level, via forrest.properties configuration. This replaces tokens in the default cocoon.xconf (DC)
- Make the seed project use the correct 'built with Apache Forrest' logo instead of Cocoon + Centipede logos. (JT)

7.2. Changes to the Code Base

- Added <acronym> tag. (JT)
- Added a means to override the check for existing content: `forrest seed -Dskip.contentcheck=yes` Thanks to Tom Klaasen. (JT)
- Added the possibility to use svg files instead png images. That is, if an image is found in the images dir that is svg and the browsers requests a png with the same name, the png is created from

- the svg automatically with batik. (NKB)
- Added the possibility to use wiki files in xdocs instead of xml files. They must have a .cwiki extension, and follow the chaperon wiki format ATM. (NKB)
- Added "Edit Page" button to edit the current page in Composer. Still needs an icon. (NKB)
- Added the possibility to use html files in xdocs instead of xml files. They must have an .html extension. (NKB)
- Added copyright statement to PDF footer (10pt, light-grey text). if a skinconf.xml 'credit' element has a role='pdf' attribute, this text will be used instead. Thanks to Keiron Liddle. (JT)
- New site.xml file in content/xdocs. This is used to implement <link href="site:internalURI"> 'semantic' links, <link href="ext:externalURI"> aliases to external links, and renders book.xml files obsolete. See [Menus and Linking](#) for more info. (JT)
- If build/webapp/content/xdocs/* is more recent than src/* equivalent, forrest webapp won't clobber it. A new forrest backcopy command will copy build/webapp/content/xdocs content back to src/documentation/content/xdocs. (JT)
- forrest-site skin is now HTML 4.0.1 compliant. The compliance validator logo can be switched off with a skinconf.xml element. (JT)
- Indirectly referenced files in skins (e.g. images in CSSurl() 's) are now copied across to the rendered site. Previously, we relied on spidering to cover the URI space, which has proved insufficient. (JT)
- HTML fragment identifiers for sections are now meaningfully named, based on the section title, rather than document-id()-generated characters. (JT)
- Fixed site regeneration bugs where changing the skin in forrest.properties had no effect after the first build. (JT)
- Now all files in src/documentation/content (except xdocs) and src/documentation/resources/images are copied across when Forrest generates a static site. This fixes the problem when an unparseable file links to another, and Cocoon can't crawl (and hence copy) the linked-to file. An example of this are CSS url('foo.png') image refs (so krysalis-site will now work properly). Also, large batches of pregenerated files like Javadocs will now be copied across instead of individually traversed. (JT)
- Now files present in the content dir are correctly linked and copied verbatim by the CLI. The wellknown files are given with the correct mime-type, and links in html and xml are followed. (NKB)
- Fixed a bug in the search form where there was no space between search term and 'site:' term. Search form also no longer requires Javascript. (JT) Thanks to [Nick Chalko](#).
- Fixed a bug where the no menu entry is 'selected' when in subdirectories. (JT)
- Now error reporting in CLI runs should work and show the cause of the error; before it was just reporting [broken link]. (NKB)
- Fixed a bug where multiple menu entries are highlighted if the filenames share a common prefix. (JT)
- Fixed a bug in forrest.bat, which would fail if run from a different drive to that Forrest was installed in. (JT) Thanks to [Omar Belhaj](#).
- Fix bug where the webapp would break due to missing XML jars under JDK 1.2/1.3. (JT)
- Moved credit and host logos to bottom left corner on forrest-site skin. (JT)
- Removed the 'basic' skin, to be shortly replaced with something much more maintainable. (JT)
- Removed some images (built-with-cocoon.gif, centipede-logo-small.gif) from the skins, and moved them to src/documentation/resources/images, as they are Forrest-specific. (JT)
- Lots of FAQ improvements: -Improved URI space by using @id attributes as the #fragment-identifier for <faq> and <part> elements. -Number FAQ entries and categories -Added back-links from FAQ entries to the menu -Process tags in <question> in menu entries -Indent FAQ

text -FAQ sample added to seed project Thanks to Joerg Pietschmann and Ralf Hauser for the suggestions. (JT)

- On avalon-tigris skin it's now possible to add a mysite.css file to customize the style. An example that can be used is from chaperon.sf.net. Also added a rounded corner to paragraphs, and many minor fixes. (NKB) Thanks to [Stefan Michels](#).
- Fixed the annoying link highlighting on the krysalis skin due to the border. Removed the border, now it highlights fine. (NKB)
- Updated part of the editor so that it now can save files in wiki format. Still needs more work. (NKB)
- Updated Batik Block so that now PNGs can be created correctly from SVG. (NKB)
- Updated some documentation, especially Forrestbot Introduction (DC)
- Update to 2002-12-26 Cocoon. (JT)
- Tweaked forrestbar, added a sub-project menu for Jakarta, fixed download link and added submenu for tools and gump. (NKB)
- Added rss capability to changes generation. (NKB)
- Added latest krysalis-site skin, using common templates where possible. There is a changes2rss stylesheet that still needs sitemap changes to run. (NKB)
- Now even the selected tab retains a link, to be able to easily select the main page of that tab even if it is "current". (NKB)
- Allow special handling of tab hrefs with #anchor references in them. By default, such menu links are always clickable. (JT)
- Updated avalon-tigris skin by merging what was in CVS here and what was used in Avalon with its Cocoon-generated site. The visual effect is the same to the current framework and Exalibur Avalon sites. (NKB)
- Updated latest Cocoon jars: chain metamodule name set to "forrest", and it is used instead of the default one. (NKB)
- Rewrite skins to share a common block of XSLT, which is used via `<xsl:import>`. This should make skin maintenance much easier. (JT)
- Added buttons for nightly Gump runs and local forrest. Corrected and completed existing interface, and made buttons flat (the bar is slimmer too). We need icons for the new buttons. (NKB)

7.3. Changes to Documentation

- Added enhancements to status.xml to comply with the needs for a complete status file, like other "STATUS" text files at Apache. Stylesheets not yet done. (NKB)

8. Version 0.2 (2002-11-16)

8.1. Changes to the Code Base

- Fixed bug where validation of xdocs was not descending into sub-directories. (DC)
- Fixed bug where changes to the breadcrumb links in skinconf.xml were ignored until the Forrest binary was rebuilt, or the project build/tmp/ deleted. (JT)
- Webapp now works under JDK 1.3 (parsers weren't being copied) (JT)

9. Version 0.2rc1 (2002-11-13)

9.1. Changes to Project Administration

-
- Initial Import (SM)

9.2. Changes to Build

- Validate project sitemaps and choice of skin (JT)
- Included Jetty in the distro. type "forrest run" to have the ./build/webapp dir contents be run in a local web server, starting from http://localhost:8888/index.html (NKB)
- Added Jing "RELAX NG validator in Java" and initial grammar for skinconf.xml files. These config files now get validated during the build. (DC)
- User projects can now add custom classes and jars to Forrest doc builds. Useful for custom sitemap components, or overriding Forrest-provided jars. (JT)
- Added the forrestbot - infrastructure and configuration for remote project building. (SN) Thanks to [Marc Portier](#).
- Added a draft DTD for the Gump Descriptor forrest.xgump (SN)
- Forrest website is being automatically built and published to krysalis.org (NKB)
- Added simple xsl stylesheet for forrest.xgump. In IE6 and Mozilla 6 it renders using this, in older ones it uses the more simplifies CSS version. (NKB)
- Added Forrest to Gump runs. (NKB)
- Added simple css stylesheet for forrest.xgump. In IE and Mozilla 6 it renders. (NKB)
- Merged forrest needed info in forrest.xgump. (NKB)
- Imported Centipede as a build system. (SN)
- Building Forrest no longer requires a network connection (for downloading Centipede). It is buildable by typing 'ant' or with the provided build scripts. (JT)
- "Change History" images (update.jpg, add.jpg etc) are now provided by default by Forrest (in images/), and need not be supplied by user projects. (JT)
- The locations where Forrest expects doc files to be is now configurable via properties, that can be set in forrest.properties. (JT)
- User projects may now specify their own sitemap, overriding the Forrest-provided one. (JT)
- Updated Cocoon to 2.1-dev to use xsltc and new CLI status messages. Logs are in the build/work/WEB-INF/logs directory and the list of broken links is in the build directory. (NKB)
- Updated Centipede stuff to latest changes: - added lib/endorsed dir for endorsed jars that are put in global calsspath - changed the build scripts to not make direct reference to jar files - added "examples" dir in src and creation of examples jar in buils - added "testmodule" target to be run before committing stuff - added "gump" build to be run by Gump (NKB)
- Updated project descriptor: now it should be usable by Gump. Added basic Forrest descriptor. (NKB)

9.3. Changes to the Code Base

- [SourceAction](#) or the so-called 'content aware pipelines' enables conditional processing of XML documents based on their grammar, being indicated by their DTD, XML Schema PI, root element, or a processing instruction (PI) in the prolog of the document. (SN) Thanks to Bruno Dumon.
- Validation of important core configuration files at build-time using RELAX NG. (DC)
- Now an id attribute on any XML element below <body> will be rendered as an anchor which can be linked to. (JT)
- Added alpha system for editing content in the webapp. To try it do "forrest run" and point the browser to http://localhost:8888/edit/ . (NKB)
- Added avalon-tigris skin. (JT) Thanks to [Peter Donald](#).
- Added a docbook2document.xsl stylesheet to library/xslt. (JT) Thanks to [Kevin Ross](#).

- XML validation is now fully configurable through a hierarchical set of `forrest.validation.*{includes,excludes,failonerror}` properties. (JT)
- Validate XSLTs in user skins and `resources/stylesheets` directories. (JT)
- Enhanced forrest-site skin's tabs. Any URL (not just directories) can now be tabbed with a new 'href' attribute. There is an improved 'longest match' algorithm for deciding which tab is on which is more robust than the old one. (JT)
- Added a subdirectory to the template site and fixed all broken links. (JT)
- XML doc files are now validated before rendering with the 'validate' target. Uses OASIS catalogs provided by Forrest, optionally augmented by user project catalogs. (JT)
- User projects can now override the default `cocoon.xconf` and `logkit.xconf` files, by placing these files in `src/documentation/conf` (JT)
- added NekoDTD-based DTD documentation using a custom Cocoon Generator (SN)
- [draft forrest toolbar for Mozilla](#) (NKB)
- Initial import of [Libre](#) facility - replacement for `*/book.xml` (SN) Thanks to [Marc Portier](#).
- Refactored site generation stuff to use skins; still need to integrate with xforrest descriptor. Added jakarta-site, xml-apache-site, cocoon-printer skins. (NKB)
- Fixed selected menu link (meant to be inactive and yellow) (JT)
- Fixed webapp redirect problems under Tomcat and (sometimes) under Jetty. (JT)
- Now site builds do not delete files in `build/site` that are included in the Ant list of default excludes, like CVS info. (NKB)
- Fixed a bug where having a `tabs.xml` link to a file not otherwise mentioned in `book.xml` caused a broken link. See [forrest-dev discussion](#) (JT)
- The distribution no longer requires Ant to be preinstalled. Now, nothing but a Java installation is needed. (JT)
- Fixed `ClassNotFoundException` when running on JDK1.4.x (JT)
- Allow `xml:space='preserve'` attribute on `<p>` element, which preserves space without the changed font and block display that `<code>` uses. (JT)
- Fixed a bug where the log files weren't being created. Thanks to Vladimir Bossicard for reporting. (JT)
- Removed unmaintained skins: `avalon-site`, `jakarta-site`, `xml-apache-site`, (JT)
- Added a `convert dir` in the resources with stylesheets and buildfile to help convert Anakia and Maven-based sites. (NKB)
- Removed the dependency that the default "site" target had on `clean-site`. It means that running "forrest" will not delete the current files in `./build/site/**`. (NKB)
- Now Cocoon serves a file directly if the filename matches the one in `./src/documentation/contents/**`. (NKB)
- Put the internal matches in a separate pipeline with `internal-only="true"`. (NKB)

9.4. Changes to Design

- Designed a new skin for the Forrest documents. Particular attention to cross-browser issues. (BK)

9.5. Changes to Documentation

- Added new document [Standards Compliance](#) Thanks to Robert Koberg. (DC)
- Allow user to specify what XML files to validate via `forrest.validate.{includes,excludes}` properties. (JT)
- Added new document [Your Project - getting started with using Forrest](#) (DC)
- Added to the "forrest-site" skin the ability to split source code larger than 80 chars in two or more lines. (NKB)

- Replace the "forrest-site" skin with the new "bert" skin. (DC) Thanks to Bert Van Kets.
- Added breadcrumb trail script from the Avalon site skin. (NKB) Thanks to Leo Simons.
- Added initial "Dream List" by harvesting statements from the forrest-dev mail list. (DC)
- Added preliminary version of a scarab-like skin. (NKB)
- Fixed links in Forrest home page and added: contributing, mailing list, list archives, who we are. (NKB)
- Fixed all broken links in the Forrest site. (JT)
- Simplified the sitemap-stylesheet contract. Instead of 'dir' and 'resource' parameters with varying meaning, there is just one 'path' parameter. (JT)
- Fixed broken PDFs in most subdirectories. (JT)
- PDFs for faq, changes and todo now work. (JT)
- Made forrest-site skin fully generic, usable with any project. Skins are configured through an external 'skinconf.xml' file, specified by the project. (JT)
- Fixed bug where multiple copies of the same image were generated, one for each directory. Now all image links are page-relative, leading to a single copy. (JT)
- Fixed tab links, which were previously hardcoded and forrest-specific. They are now page-relative. tabs.xml file entries no longer have to end in '/'. (JT)
- Ensure that initial DTDs are valid and that the initial XML instances can be validated using these DTDs and OASIS Catalogs. (DC) Thanks to [Steven Noels](#).