

# History of Changes

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## 1. Version 0.6-dev (unreleased)

- Added new document to facilitate [upgrading to v0.6](http://forrest.apache.org/docs/upgrading_06.html) ([http://forrest.apache.org/docs/upgrading\\_06.html](http://forrest.apache.org/docs/upgrading_06.html)) (DC)
- Added a How-To: [Generate an ASF mirrors page using interactive web form](http://forrest.apache.org/howto/howto-asf-mirror.html) (<http://forrest.apache.org/howto/howto-asf-mirror.html>) using ihtml to include additional html form elements. (DC)
- Added forrestbot deploy.svn implmentation. (DB) Fixes [FOR-219](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-219>) .
- Added a How-To: [How to create a PDF document for each tab](http://forrest.apache.org/howto/howto-pdf-tab.html) (<http://forrest.apache.org/howto/howto-pdf-tab.html>) to create subject-specific aggregated documents. (TS) Thanks to Stephan E. Schlierf. Fixes [FOR-218](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-218>) .
- Created the [How-To](http://forrest.apache.org/howto/) (<http://forrest.apache.org/howto/>) section of the documentation. Continue Dianna Shannon's good work with designing the DTDs, concepts, and documentation effort at Cocoon. (DC)
- css-style-dev skin - all div based skin as dev version added. (TS) Fixes [FOR-182](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-182>) .
- 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](http://forrest.apache.org/docs/upgrading_06.html) ([http://forrest.apache.org/docs/upgrading\\_06.html](http://forrest.apache.org/docs/upgrading_06.html)) Please help to upgrade our /dtd/.htaccess file (see issue [FOR-107](#)) and please help to address the SVN Issue [1233](#) ([http://subversion.tigris.org/issues/show\\_bug.cgi?id=1233](http://subversion.tigris.org/issues/show_bug.cgi?id=1233)) . (DC) Fixes [FOR-107](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-107>) .
- In skinconfig, add box-location attribute to search element. (DB) Fixes [FOR-142](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-142>) .
- Added new documentation about [Searching Forrest-built documentation](http://forrest.apache.org/docs/searching.html) (<http://forrest.apache.org/docs/searching.html>) which describes both Lucene and Google search. (JJP) Thanks to Florian G. Haas. Fixes [FOR-9](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-9>) .
- Locationmap modules added. Not in use yet. (NKB) Thanks to Unico Hommes.
- Forrestdoc code added to scratchpad; previously was [Jakarta Alexandria](http://jakarta.apache.org/alexandria/) (<http://jakarta.apache.org/alexandria/>) (NKB)
- Add <copyright-link> element to skinconf (DB) Fixes [FOR-120](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-120>) .
- Information about the new [forrest-user](http://forrest.apache.org/mail-lists.html#forrest-user) (<http://forrest.apache.org/mail-lists.html#forrest-user>) mail list (JJP)

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- 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 a 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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-112) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-112>) .
- New 'clean-dist' target for build.xml, which is now the default target. (DB) Fixes [FOR-108](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-108) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-108>) .
- 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's now possible to have two levels of tabs. (NKB) Thanks to [Ross Gardler](mailto:ross@saafe.org) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-98>) . Fixes [FOR-98](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-98) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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-style' 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)

- Began documentation for new forrestbot; moved stable forrestbot docs (DB)
- New file format: '.aart'. These are text files that are converted automatically by 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](mailto:Jan.Materne@rzf.fin-nrw.de) (mailto:Jan.Materne@rzf.fin-nrw.de)
- Skins can now be packaged, downloaded and automatically installed. See [documentation](http://forrest.apache.org/docs/skin-package.html) (http://forrest.apache.org/docs/skin-package.html) . (NKB)
- First I18n integration for menus in forrest. (JJP) Fixes [FOR-9](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-9) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-9) .
- Integrate Lucene on Forrest. Check the bug report for more info. (JJP) Thanks to [Ramón Prades](mailto:rprades@porcelanosa.com) (mailto:rprades@porcelanosa.com) . Fixes [FOR-9](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-9) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-56) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-56) .
- 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](http://issues.apache.org/eyebrowse/BrowseList?listId=65&by=thread&from=748321) (http://issues.apache.org/eyebrowse/BrowseList?listId=65&by=thread&from=748321) (DB) Fixes [FOR-131](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-131) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-140) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-140) .
- 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 issue report for full list of changes. (DC) Thanks to Rick Tessner. Fixes [FOR-174](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-174)

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- (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-174>) .
- Support running Forrest on Win9x. (DB) Thanks to Pierrick Brihaye. Fixes [FOR-113](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-113>) .
- Don't copy unneeded project files in 'war' and 'webapp' targets. (DB) Fixes [FOR-207](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-207>) .
- Add more descriptions to forrest targets. Highlight the most common ones. (DB) Fixes [FOR-216](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-216>) .
- Projects can use a local CatalogManager.properties to declare additional Catalogs for DTDs and other entities. (DC)
- Improve look of PDF pages. (DB)
- Forrest is now a top-level Apache project. The new website is at <http://forrest.apache.org/> (DC)
- Fix relative links and image references in aggregate pages. (DB) Fixes [FOR-148](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=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](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-9>) .
- Upgrade to cocoon 2.1.5 (JJP)
- Removed author and cvs-id tags from code and xdocs. (DB) Fixes [FOR-123](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-123>) .
- Repack Jetty without JSP support. Now we can remove org.apache.jasper.jar (JJP)
- 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)
- 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](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=FOR-137>) .
- Completely rewritten Lucene-based index and search functionality (JJP) Thanks to Florian G. Haas. Fixes [FOR-9](#) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jsps?key=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](mailto:cheche@apache.org) (mailto:cheche@apache.org) . Fixes [FOR-59](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-59) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-59>) .
  - New build target to build a webapp that can be distributed. "war" target depends on "webapp" 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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-98) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-98>) .
  - Upgrade to cocoon 2.1.3 nekodtd 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)

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- Skins are now editable directly in FORREST\_HOME. (NKB) Thanks to [Ross Gardler](mailto:ross@saafe.org) (mailto:ross@saafe.org) . Fixes [FOR-85](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-85) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](mailto:Jan.Materne@rzf.fin-nrw.de) (mailto:Jan.Materne@rzf.fin-nrw.de) .
- 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](mailto:eburghar@free.fr) (mailto:eburghar@free.fr) .
- 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)
- JCS log messages go through cocoon instead of to stdout. (DB) Fixes [FOR-214](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-214) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-214) .
- Generate proper html for figures in simplified docbook. (DB) Thanks to Johannes Schaefer. Fixes [FOR-226](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-226) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-226) .
- PDF pages receive skinconf properly (through the skinconf pipeline). (DB) Fixes



- [FOR-138](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-138) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-138>) .
- FAQ page does not need to provide it's own extra index. (DB) Fixes [FOR-154](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-154) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-154>) .
- Brokenlinks file is now generated in project.home rather than forrest.home (JJP) Fixes [FOR-165](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-165) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-165>) .
- Replace URLs in all docs to be <http://forrest.apache.org/> (JJP)
- Add missing xdocs from the validate.exclude property. Allowing to exclude files. (JJP) Fixes [FOR-130](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-130) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-130>) .
- Improved resolving image references in PDFs. (DB) Fixes [FOR-114](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-114) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-146) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-139) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-139>) .
- "Warning" was mistakenly labeled as "Note" in PDF (JJP) Thanks to Nick Chalko. Fixes [FOR-136](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-136) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-136>) .
- site2book.xsl handle all menu-item and menu attributes (JJP) Fixes [FOR-69](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-69) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-69>) .
- Proper table around 'graphic' in simplified docbook. (DPB) Thanks to Rob Exley. Fixes [FOR-115](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-115) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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)



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- 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](mailto:ross@saafe.org) (mailto:ross@saafe.org) . Fixes [FOR-87](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-87) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-87>) , [FOR-88](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-88) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-88>) .
- DHTML menus in Krysalis skin now work on all levels. (NKB) Thanks to [Ross Gardler](mailto:ross@saafe.org) (mailto:ross@saafe.org) . Fixes [FOR-86](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-86) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](mailto:sb@sebastian-bergmann.de) (mailto:sb@sebastian-bergmann.de) .
- 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](mailto:eburghar@free.fr) (mailto:eburghar@free.fr) .
- Validate-site target verifies that a site has disable-xml-link to validate, otherwise fails. (JJP)

## 2. Version 0.5.1 (2003-10-06)

- Added obfuscate-mail-links skinconf.xml option, on by default. (JT) Fixes [FOR-67](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-67) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-66) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-66>) , [FOR-62](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-62) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-65) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-65>) .

- forrest.antproxy.xml script now properly fails when Cocoon fails (JT)
- 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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-47) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-47>) , [FOR-48](http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-48) (<http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-48>) .
- The 'forrest' command no longer sources /etc/antrc and ~/.antrc, which solves problems on some \*nix distributions. (JT)

### 3. Version 0.5 (2003-09-13)

- Added new document to facilitate [upgrading to v0.5](http://forrest.apache.org/docs/upgrading_05.html) ([http://forrest.apache.org/docs/upgrading\\_05.html](http://forrest.apache.org/docs/upgrading_05.html)) (JT)
- 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](mailto:joerg.heinicke@gmx.de) (<mailto:joerg.heinicke@gmx.de>) .
- 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](mailto:dave@brondsema.net) (<mailto:dave@brondsema.net>) .
- 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)
- 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)

## History of Changes

- Added email template for html content in common skin. (JJP) Thanks to [Dave Brondsema](mailto:dave@brondsema.net) (mailto:dave@brondsema.net) .
- Add description to {group, project} logo. (JJP) Fixes [FOR-23](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-23) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](mailto:hauser@acm.org) (mailto:hauser@acm.org) . Fixes [FOR-20](http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=FOR-20) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspx?key=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](mailto:rprades@porcelanosa.com) (mailto:rprades@porcelanosa.com) .
- 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](mailto:rofre@swing.be) (mailto:rofre@swing.be) .
- 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](http://forrest.apache.org/docs/document-v12.html) (http://forrest.apache.org/docs/document-v12.html) . (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](http://www.mozilla.org/projects/phoenix/) (http://www.mozilla.org/projects/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)
- 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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=FOR-31) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=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 Bjørnsnø](mailto:bjorsnos@stud.ntnu.no) (mailto:bjorsnos@stud.ntnu.no) .
- Support for version, type and notice on html format. (JJP) Thanks to [Eirik Bjørnsnø](mailto:bjorsnos@stud.ntnu.no) (mailto:bjorsnos@stud.ntnu.no) .
- Style information on the common skin. (JJP) Fixes [FOR-34](http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=FOR-34) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=FOR-34) .
- build directory created in wrong directories. (JJP) Thanks to [Ross Gardler](mailto:ross@saafe.org) (mailto:ross@saafe.org) . Fixes [FOR-46](http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=FOR-46) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=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](http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=FOR-43) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspsa?key=FOR-43) .
- Allow images to scale on pdf output. (JJP) Thanks to [J.Pietschmann](mailto:pietsch@apache.org) (mailto:pietsch@apache.org) .
- Docbook table header is shifted one column. (JJP) Thanks to [Ringo de Smet](mailto:DeSmet_Ringo@emc.com) (mailto:DeSmet\_Ringo@emc.com) .
- 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

## History of Changes

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 Bjørnsnø](mailto:bjorsnos@stud.ntnu.no) (mailto:bjorsnos@stud.ntnu.no) . Fixes [FOR-51](http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-51) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-51) .
- Unescape strings, so they display properly on the trail for all skins. (JJP) Thanks to [Ramón Prades](mailto:rprades@porcelanosa.com) (mailto:rprades@porcelanosa.com) .
- Use sync task to clean the tmp directory for xdocs. (JJP) Thanks to [Dave Brondsema](mailto:dave@brondsema.net) (mailto:dave@brondsema.net) . Fixes [FOR-49](http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=FOR-49) (http://issues.cocoondev.org/jira/secure/ViewIssue.jspa?key=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 \*.ehtml 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](mailto:bodewig@apache.org) (mailto:bodewig@apache.org) .
- Fixed bug where absolute paths to images were created in the build/site directory. (JT)
- Get the Wiki syntax support working again. (JT)
- 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](http://java.sun.com/products/jimi/) (http://java.sun.com/products/jimi/) 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](mailto:cheche@che-che.com) (mailto:cheche@che-che.com) .

- Allow users to determine which URLs Forrest should ignore, by overriding `stylesheets/filterlinks.xml` (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)
- Fixed rendering of images in PDF for images not located in the `resources/images` dir. (SN)

#### **4. Version 0.4 (2003-02-12)**

- Added a minimal template skin. (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)
- 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)
- 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](mailto:bloritsch@apache.org) (mailto:bloritsch@apache.org) .
- The menu is now limited to only pages in the current subdirectory and below. (JT) Thanks to [Bernhard Brandmair](mailto:Bernhard.Brandmair@integral.com) (mailto:Bernhard.Brandmair@integral.com) .
- Added the cwiki stylesheets that were missing and an example in the fresh site seed. (NKB) Thanks to [Cathy Zura](mailto:czura@optonline.net) (mailto:czura@optonline.net) .
- Correctly serve swf files. (JT)
- Fix `site:` and `ext:` rewriting in `book.xml`, `ihtml`, `ehhtml` and `cwiki` files in subdirectories. (JT)

#### **5. Version 0.3 (2003-01-30)**

- Added `<acronym>` tag. (JT)
- Added a means to override the check for existing content:



## History of Changes

```
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](http://forrest.apache.org/docs/linking.html) (<http://forrest.apache.org/docs/linking.html>) for more info. (JT)
  - 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)
  - 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](mailto:stephan@apache.org) (<mailto:stephan@apache.org>) .
  - 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 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)
- 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)
- 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 compliancy 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

## History of Changes

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](mailto:nick@chalko.com) (mailto:nick@chalko.com) .
- 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](mailto:belhaj@online.no) (mailto:belhaj@online.no) .
- 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)
- Make the seed project use the correct 'built with Apache Forrest' logo instead of Cocoon + Centipede logos. (JT)

### 6. Version 0.2 (2002-11-16)

- 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)

### 7. Version 0.2rc1 (2002-11-13)

- [SourceAction](http://forrest.apache.org/docs/cap.html) (http://forrest.apache.org/docs/cap.html) 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.
- Validate project sitemaps and choice of skin (JT)
- 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](mailto:peter@apache.org) (mailto:peter@apache.org) .
- 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 a docbook2document.xsl stylesheet to library/xslt. (JT) Thanks to [Kevin Ross](mailto:Kevin.Ross@iVerticalLeap.com) (mailto:Kevin.Ross@iVerticalLeap.com) .
- 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/stylesheet` directories. (JT)
- Added new document [Standards Compliance](http://forrest.apache.org/docs/compliance.html) (http://forrest.apache.org/docs/compliance.html) Thanks to Robert Koberg. (DC)
- Added Jing "RELAX NG validator in Java" and initial grammar for skinconf.xml files. These config files now get validated during the build. (DC)
- 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)
- Allow user to specify what XML files to validate via `forrest.validate.{includes,excludes}` properties. (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)
- 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 new document [Your Project - getting started with using Forrest](http://forrest.apache.org/docs/your-project.html) (http://forrest.apache.org/docs/your-project.html) (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 the forrestbot - infrastructure and configuration for remote project building. (SN) Thanks to [Marc Portier](mailto:mpo@outerthought.org) (mailto:mpo@outerthought.org) .
- Added breadcrumb trail script from the Avalon site skin. (NKB) Thanks to Leo Simons.
- added NekoDTD-based DTD documentation using a custom Cocoon Generator (SN)
- [draft forrest toolbar for Mozilla](http://marc.theaimsgroup.com/?l=forrest-dev&m=102471820523388) (http://marc.theaimsgroup.com/?l=forrest-dev&m=102471820523388) (NKB)
- Initial import of [Libre](http://forrest.apache.org/docs/libre-intro.html) (http://forrest.apache.org/docs/libre-intro.html) facility - replacement for `*/book.xml` (SN) Thanks to [Marc Portier](mailto:mpo@outerthought.org) (mailto:mpo@outerthought.org) .
- Added a draft DTD for the Gump Descriptor `forrest.xgump` (SN)

## History of Changes

- Forrest website is being automatically built and published to krysalis.org (NKB)
- Designed a new skin for the Forrest documents. Particular attention to cross-browser issues. (BK)
- Added initial "Dream List" by harvesting statements from the forrest-dev mail list. (DC)
- 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 preliminary version of a scarab-like skin. (NKB)
- Added simple css stylesheet for forrest.xgump. In IE and Mozilla 6 it renders. (NKB)
- Fixed links in Forrest home page and added: contributing, mailing list, list archives, who we are. (NKB)
- Merged forrest needed info in forrest.xgump. (NKB)
- Refactored site generation stuff to use skins; still need to integrate with xforrest descriptor. Added jakarta-site, xml-apache-site, cocoon-printer skins. (NKB)
- Imported Centipede as a build system. (SN)
- Initial Import (SM)
- 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)
- 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 builds - 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)
- 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](#)

- (mailto:stevonn@outerthought.org) .
- 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](http://marc.theaimsgroup.com/?t=103607092100004&r=1&w=2) (http://marc.theaimsgroup.com/?t=103607092100004&r=1&w=2) (JT)
  - 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)
  - The distribution no longer requires Ant to be preinstalled. Now, nothing but a Java installation is needed. (JT)
  - Building Forrest no longer requires a network connection (for downloading Centipede). It is buildable by typing 'ant' or with the provided build scripts. (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)
  - PDFs for faq, changes and todo now work. (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)
  - 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)