

# HowToGenerateNiceJavadocs

Java 7 gives a nicer javadocs look and feel (less Geocities-like).

So you can optionally generate these nicer javadocs for the website without screwing anything else up, if you have the urge. The trick is you must use java7, but **also** have the minimal compiler version (e.g. java6 or whatever) so you can set your `bootclasspath` to its `rt.jar` (Apple's Java5 and Java6 JDKs call this file `Classes/classes.jar` instead - substitute in the cmdlines given below). This way the javadocs won't include any bogus java7 interfaces like `AutoCloseable` that don't actually apply.

In order to produce all of the documentation for a release, including a top level index, javadocs, changes, etc., use `ant documentation` under both `lucene/` and `solr/`.

1. When making the actual release, please always use the actual minimum compiler version!!!! E.g. if its java5, put an actually java5 compiler in your `JAVA_HOME` and then put `$JAVA_HOME/bin` in the front of your path. Although it **might** be safe to do otherwise, just do this and you don't need to worry.
2. To make java7 javadocs for the website, first take your checkout of the release tag and clean old docs:  

```
rm -rf solr/build/docs lucene/build/docs
```
3. Next put a java7 compiler in your `JAVA_HOME` and `$JAVA_HOME/bin` in the front of your path.
4. Under `lucene/`: `ant -Dversion=X.Y.Z -Djavadoc.noindex=false -Dbootjdk=/path/to/the/minimum/jdk documentation`
5. Under `solr/`: `ant -Dversion=X.Y.Z -Djavadoc.noindex=false -Dbootjdk=/path/to/the/minimum/jdk documentation`
6. Now you have fancy javadocs under `lucene/build/docs/api` and `solr/build/docs/api`, that otherwise link to the correct java versions and APIs, just look (hopefully) nicer.
7. IMPORTANT: Before deploying, check the correctness of newly generated Javadocs: For Lucene/Solr 4.x, the class `org.apache.lucene.index.IndexReader` has only "Closeable" but not "AutoCloseable" as interface (the latter would point to a 404 error on Oracle's side). In Lucene 5, [AutoCloseable](#) is fine.
8. Deploy these to the website instead of the ones from the RC. (someone could always volunteer to do that after the release really at any time)