XTF Tutorial
How to install everything

For this workshop we're going to get the following components onto your laptop:

1. Java, version 1.5 or higher (supplied for Windows, pre-installed on most Macs)
2. An XML editor; we recommend EditiX (supplied)
3. Apache Tomcat, version 5.5 or higher (version 6.0.29 supplied)
4. XTF (supplied)
5. Sample document library (supplied)

This guide briefly covers installation, including slightly different procedures depending on whether you're using Windows or Mac OS X. If you're using some other OS (e.g., Linux), ask and we'll help you get XTF installed.

Installing the tutorial package

Most of the components you need are supplied in a pre-configured package on the installation media. Here's how to get this package onto your computer:

Windows:

On the installation media locate:

   `Install_Windows\xtfWorkshop.zip`

1. Drag or copy/paste this file to your machine. We recommend placing it into your `My Documents` folder.
2. Right-click on the file, and select: **Extract all...**
3. Choose a folder to extract the package to. We recommend:
   `My Documents\xtfWorkshop`
4. Double-click the command prompt file, `cmdPrompt.bat`

Mac:

On the installation media locate:

   `Install_Mac\xtfWorkshop.tar.gz`

1. Drag or copy/paste this file to your machine. We recommend placing it into your `Documents` folder.
2. Double-click on the file to extract its contents.
3. The package will be in a directory, e.g. `Documents/xtfWorkshop`
4. Double-click the command prompt file, `cmdPrompt.command`

At the end of this procedure you should be greeted with: "Welcome to the XTF workshop!" and be looking at a command prompt. Great!

Running the EditiX XML editor

Unless you currently have an XML editor that you're fond of, we recommend using EditiX (free) or Oxygen (free trial, reasonable academic pricing). If you already have an editor you prefer to use for XML, skip this section.

We've tried quite a few different editors, and Oxygen comes out on top in terms of stability, features, and cross-platform compatibility. Though not free, the academic license is only US $48, which we feel is a bargain. EditiX, while as powerful or convenient, is free (as well as cross-platform).

For this class, we've provided EditiX inside the installation package. Let's get to it:

Windows / Mac:

- Double-click on: `xtfWorkshop\editix`

After a brief pause the EditiX editor should appear on your screen.

While most of the defaults are acceptable, on is often annoying: the "Content Assistant". This is a box that pops up while you're typing to try and provide assistance; some find it a nuisance rather than a help. To disable it:
- Select the XML menu and uncheck the "Content Assistant" entry,
  or
- Find the Content Assistant icon near the middle of the toolbar at the top of the window.

You're now ready to edit XML files. You can drag them onto the editor from Explorer/Finder, or else Open them using the File menu.

Indexing the documents

Now let's try to index the sample document library.

Windows:

1. Open a command prompt, using `cmdPrompt.bat`.
2. Execute the textIndexer by running:
   `textIndexer -index default`

Mac:

1. Open a command prompt, using `cmdPrompt.command`.
2. Execute the textIndexer by running:
   `textIndexer -index default`

The output should look something like this (version numbers may be different):

```
TextIndexer v2.1.1

  Purging Incomplete Documents From Indexes:
  Done.

  Indexing New/Updated Documents:
    Index: "default"
      Scanning Data Directories....
      (5%)   Indexing [ead/bell/bell.xml] ... (1 stored key) ... Done.
      (6%)   Indexing [ead/clay/clay.xml] ... (1 stored key) ... Done.
      …
    Done.
  Done.

  Optimizing Index:
    Index: […xtfWorkshop/tomcat/webapps/xtf/index/] ... Done.
  Done.

  Updating Spellcheck Dictionary:
    …
  Done.

Total time: 1 minute, 8 seconds.
Indexing complete.
```

Searching the documents

Once the document library has been indexed, you can verify that basic document searching using the *crossQuery* servlet works. First, we need to start up **Tomcat**.

Windows: **Mac:**
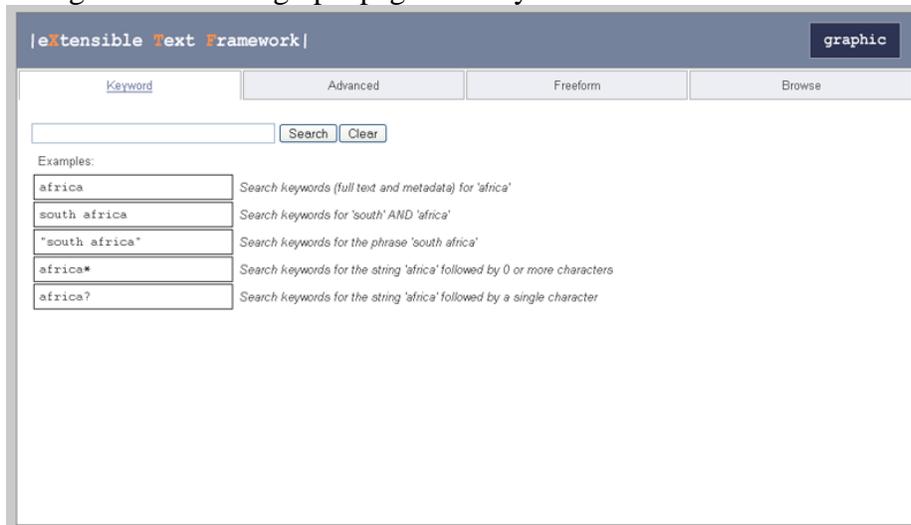
- Double-click on `tomcat.bat`   - Double-click on `tomcat.command`

Once Tomcat has started, open a web browser and go to this address:
http://localhost:8080/xtf/search

Doing so should bring up a page where you can enter information to search for, like this:

Entering the word `africa` in the keyword field and pressing the **Search** button should yield a list of matching documents.

Clicking on a book title takes you to the cover page, demonstrating the *dynaXML* servlet. Back on the search results, clicking on the word Africa in the one of the snippets will take you to the actual place in the book where the word "Africa" appears.

Congratulations! You're done installing XTF.

Proceed with the tutorial by following the exercises on the XTF website:
http://xtf.cdlib.org/getting-started-tutorials/