Embedded Indexing

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If you don't index it, it doesn't exist.

It's out there but you can't find it, so it might as well not be there.

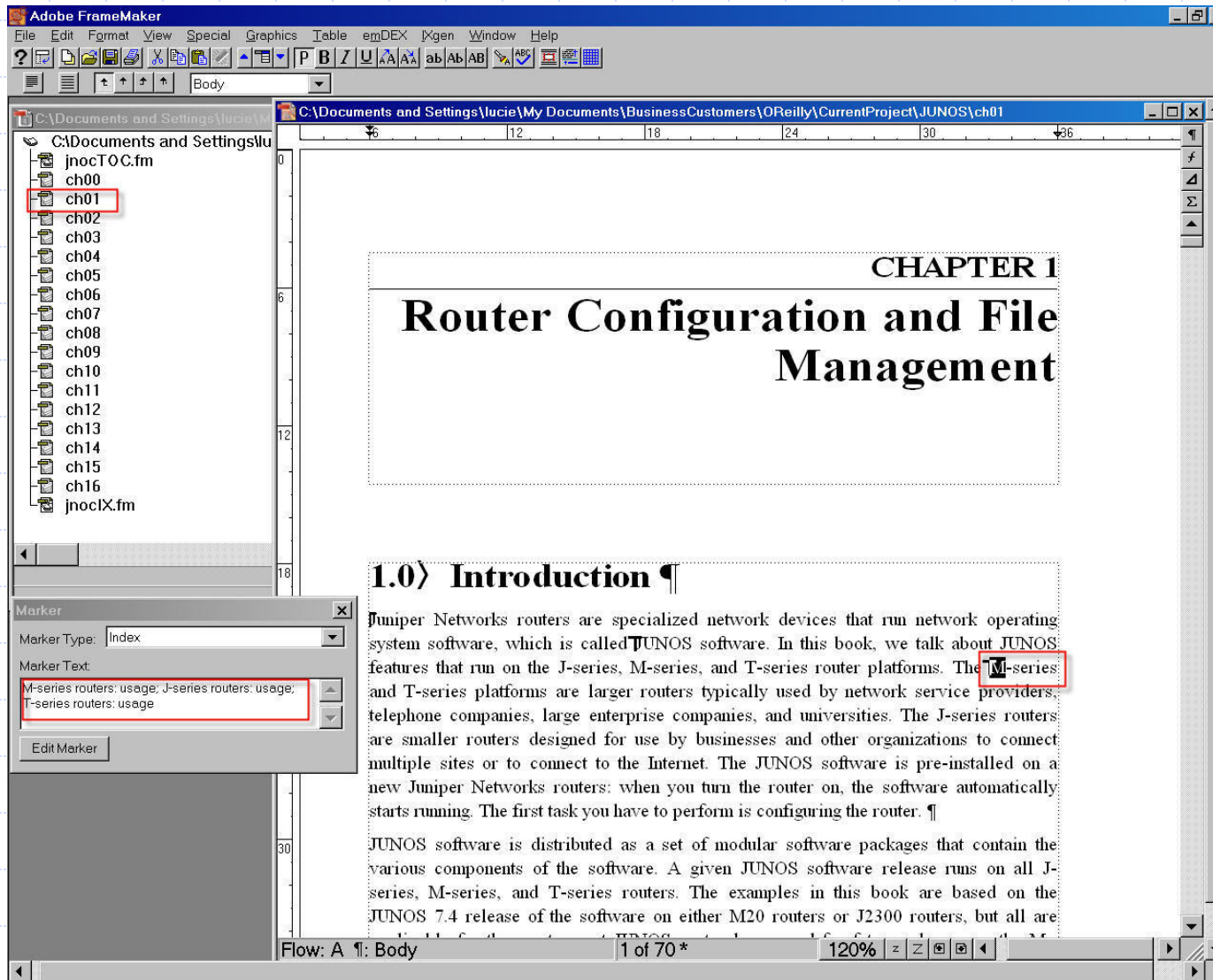(Barbara Quint, ASI San Diego Conference, 1994)

Embedded indexing

◆ FrameMaker

◆ Microsoft Word

FrameMaker

- ◆ Difficulties using FrameMaker alone

- ◆ Benefits and functionality of third-party utilities

- ◆ My embedding process

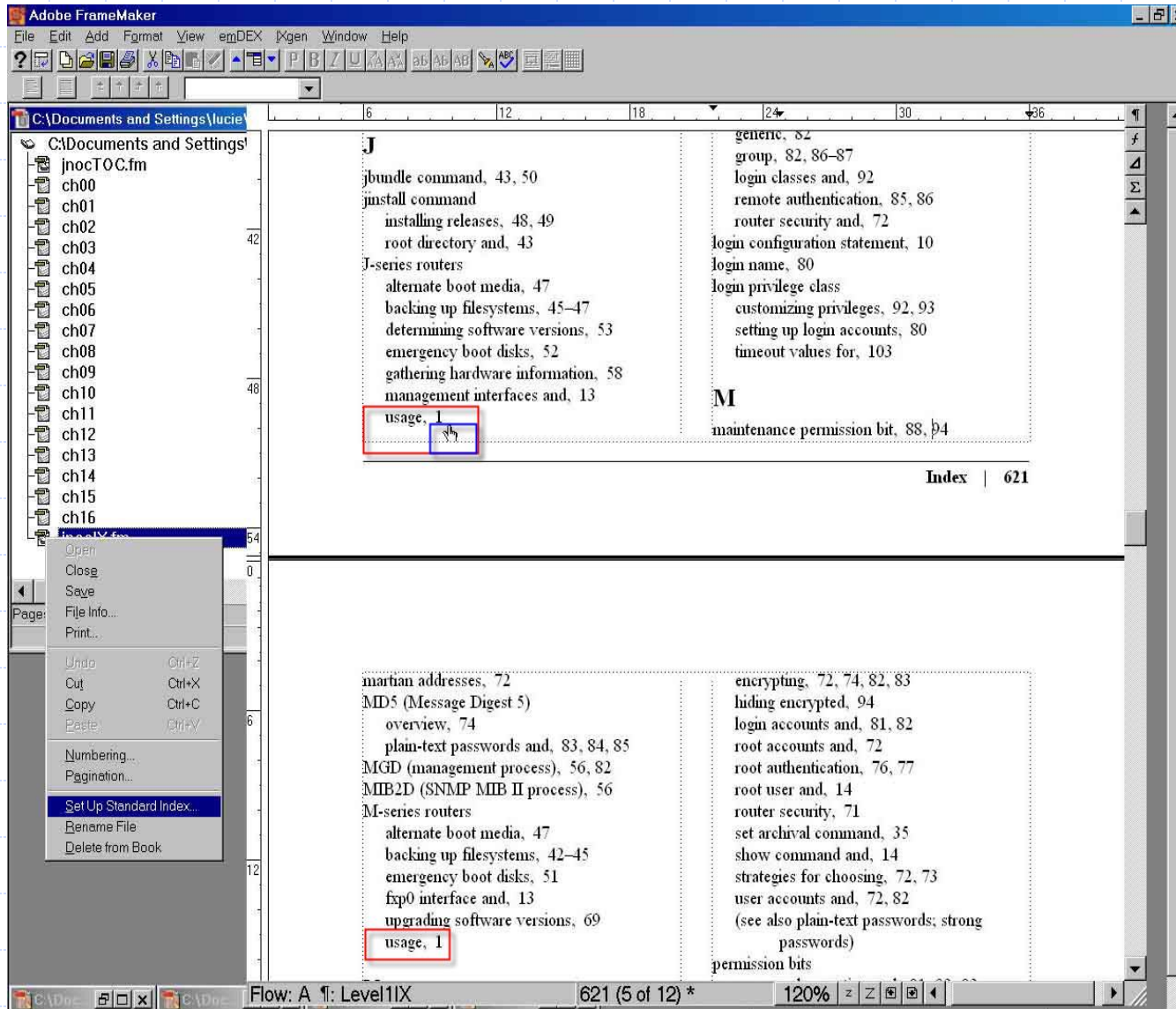# Difficulties using FrameMaker alone – data entry

FM Process:
- open book
- open chapters
- index

Creating terms:
- index preview
- autocomplete
- marker box size
- special strings
- autogeneration

Difficulties using FrameMaker alone – editing

FM Process:
- generate index
- hyperlinks

Editing terms:
- change propagation
- index preview
- viewing entries

Third party utilities for FrameMaker

emDEX
http://www.emdex.ca

IXgen
http://www.fsatools.com

Benefits/functionality of third party utilities
– index preview (emDEX)

Benefits/functionality of third party utilities
– autocomplete for entries (emDEX)

Benefits/functionality of third party utilities
– customizable marker box and special strings (emDEX)

Benefits/functionality of third party utilities
– autogeneration of entries (IXgen)

◆ from Keywords

◆ from Paragraph Tags

◆ from Character Tags

◆ permute (rotate) marker text

quick brown fox can be rotated to these two additional entries:

brown, fox quick

fox, quick brown

Benefits/functionality of third party utilities
– change propagation (emDEX)

Replace   ✕

Search text :

InfoPath

Replace with :

InfoPath (Microsoft)

☐ Case sensitive

OK   Cancel
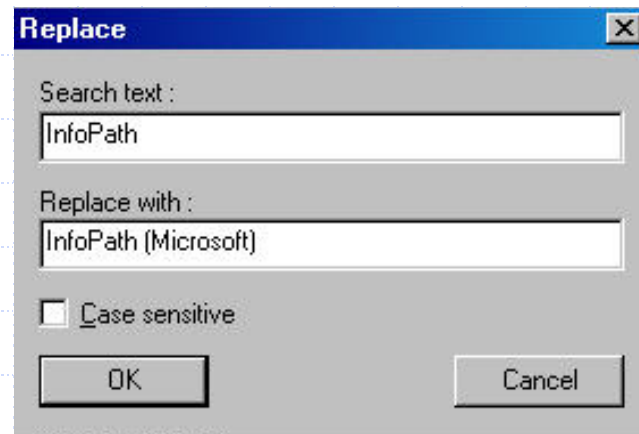
OLD VERSION:

InfoPath
defined 215
Excel and 225-227
generating HTML output 261-263
linking forms 230-236, 245-247
populating controls 236-239
scripts and 243-245, 247-255
sharing data 227-230

NEW VERSION:

InfoPath **(Microsoft)**
defined 215
Excel and 225-227
generating HTML output 261-263
linking forms 230-236, 245-247
populating controls 236-239
scripts and 243-245, 247-255
sharing data 227-230

Benefits of third party utilities for FrameMaker – change propagation (IXgen)

Benefits/functionality of third party utilities
– viewing index entries in document (IXgen)

Why do you need to back up the JUNOS filesystems? One seasoned administrator has said that the less you know about the JUNOS filesystems, the more sane you will be—but still, you have to know at least a little bit. Routers have two internal storage areas, the flash drive (by default, the primary boot device) and the hard disk (the secondary boot device). A copy of the JUNOS software is stored in both. The flash drive has two filesystems (or partitions): *config*, which contains the active and most recent backup configurations, the rescue configuration, and software licenses; and *, which contains the JUNOS software (everything installed by the install or bundle command), the router's SSH keys, and a few other files generated from the configuration. The hard disk has one filesystem, *var*, which is a large partition that contains system logfiles, diagnostic dump files, archived configuration files, and user home directories. (Also on the hard disk are the *altroot* and */altconfig* partitions, which contain a copy of the JUNOS software and related files, and a swap partition.) When booting from the flash drive, the router uses the software and files on the flash drive. If the boot fails, it automatically tries the software and files on the hard disk. For the boot failover process to work, you must have created a snapshot from a working version of the software at some time in the past.¶

There is one additional filesystem on the router, *tmp*, which is a RAM disk (a memory filesystem). ¶

To verify that the snapshot was successful, you might want to list the contents of the filesystems (with the `file list` command). However, the */altroot* and */altconfig* filesystems are not mounted, so they are not visible even though the underlying directories are still present:¶

```
aviva@router1> show system storage ¶
Filesystem     Size    Used    Avail Capacity  Mounted on¶
/dev/ad0s1a    77M     39M     32M   55%  /devfs¶
               16K     16K     0B    100% /dev/¶
/dev/vn0       13M     13M     0B    100% /packages/mnt/jbase¶
/dev/vn1       37M     37M     0B    100% /packages/mnt/jkernel-7.4R1.7¶
/dev/vn2       12M     12M     0B    100% /packages/mnt/jpfe-M40-7.4R1.7¶
/dev/vn3       2.3M    2.3M    0B    100% /packages/mnt/jdocs-7.4R1.7 ¶
/dev/vn4       14M     14M     0B    100% /packages/mnt/jroute-7.4R1.7¶
/dev/vn5       5.1M    5.1M    0B    100% /packages/mnt/jcrypto-7.4R1.7¶
/dev/ad0s1e    12M     16K     11M   0%   /config¶
```

Why do you need to back up the JUNOS filesystems? One seasoned administrator has said that the less you know about the JUNOS filesystems, the more sane you will be—but still, you have to know at least a little bit. Routers have two internal storage areas, the flash drive:as storage area[flash drive:storage area]flash drive (by default, the primary boot device) and the hard disk:as storage area[hard disk:storage area]hard disk (the secondary boot device). A copy of the JUNOS software is stored in both. The flash drive has two filesystems (or partitions): config directory: flash drive and[config directory:flash drive and]*config*, which contains the active and most recent backup configurations, the rescue configuration, and software licenses; and root directory: flash drive and /, which contains the JUNOS software (everything installed by the install command: root directory and install or bundle commandjbundle command), the router's SSH (secure shell): router keysSSH keys, and a few other files generated from the configuration. The hard disk has one filesystem, var directory: hard disk and[var directory: hard disk and]*var*, which is a large partition that contains system logfiles, diagnostic dump files, archived configuration files, and user home directories. (Also on the hard disk are the altroot directory[altroot directory];/altconfig directory[altconfig directory]*/altroot* and */altconfig* partitions, which contain a copy of the JUNOS software and related files, and a swap partition.) When booting from the flash drive, the router uses the software and files on the flash drive. If the boot fails, it automatically tries the software and files on the hard disk. For the boot failover process to work, you must have created a snapshot from a working version of the software at some time in the past.¶

There is one additional <$nopage>directories (see specific filesystems)filesystem on the router, tmp directory[tmp directory]*tmp*, which is a RAM disk (a memory filesystem). ¶

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               16K     16K     0B    100% /dev/¶
/dev/vn0       13M     13M     0B    100% /packages/mnt/jbase¶
/dev/vn1       37M     37M     0B    100% /packages/mnt/jkernel-7.4R1.7¶
/dev/vn2       12M     12M     0B    100% /packages/mnt/jpfe-M40-7.4R1.7¶
/dev/vn3       2.3M    2.3M    0B    100% /packages/mnt/jdocs-7.4R1.7 ¶
/dev/vn4       14M     14M     0B    100% /packages/mnt/jroute-7.4R1.7¶
```
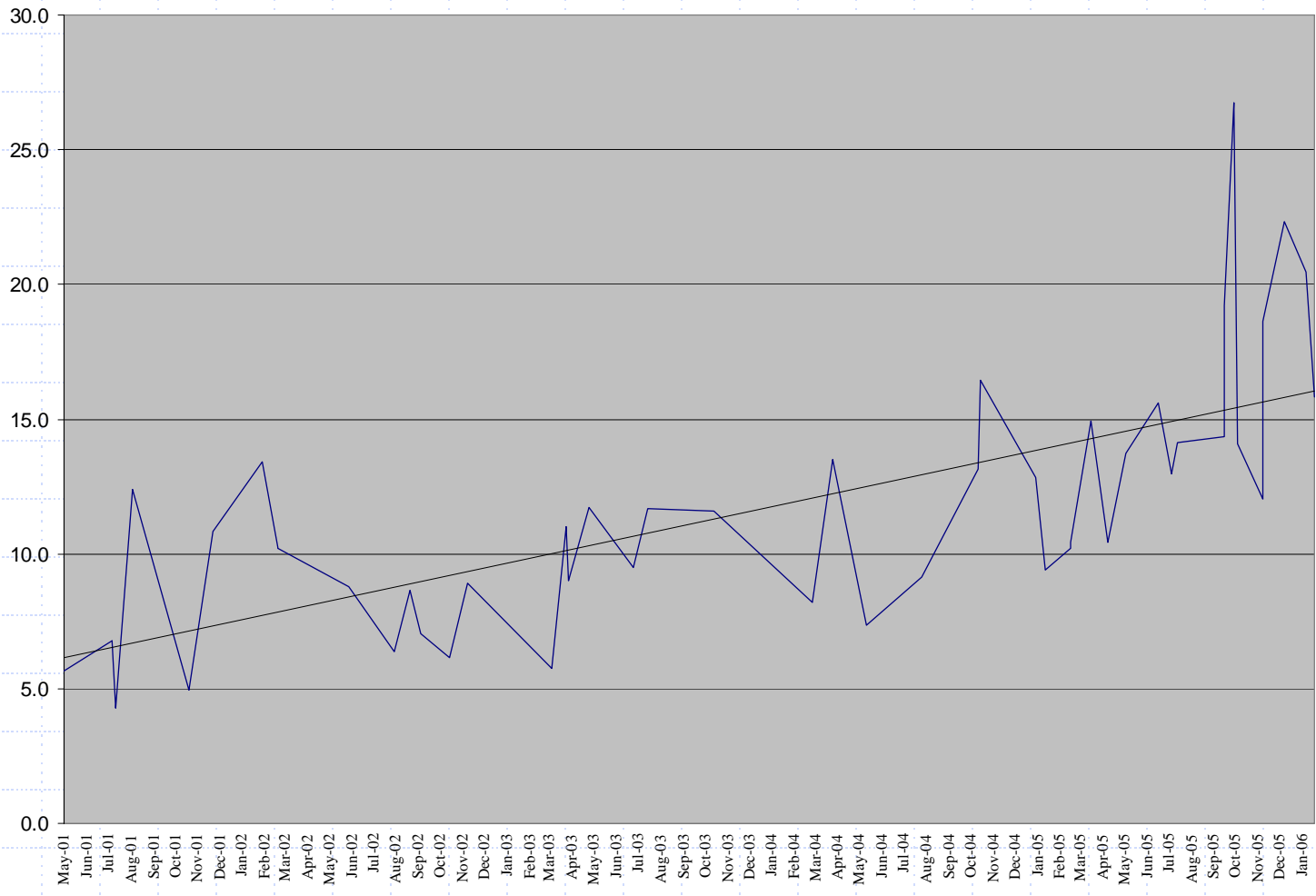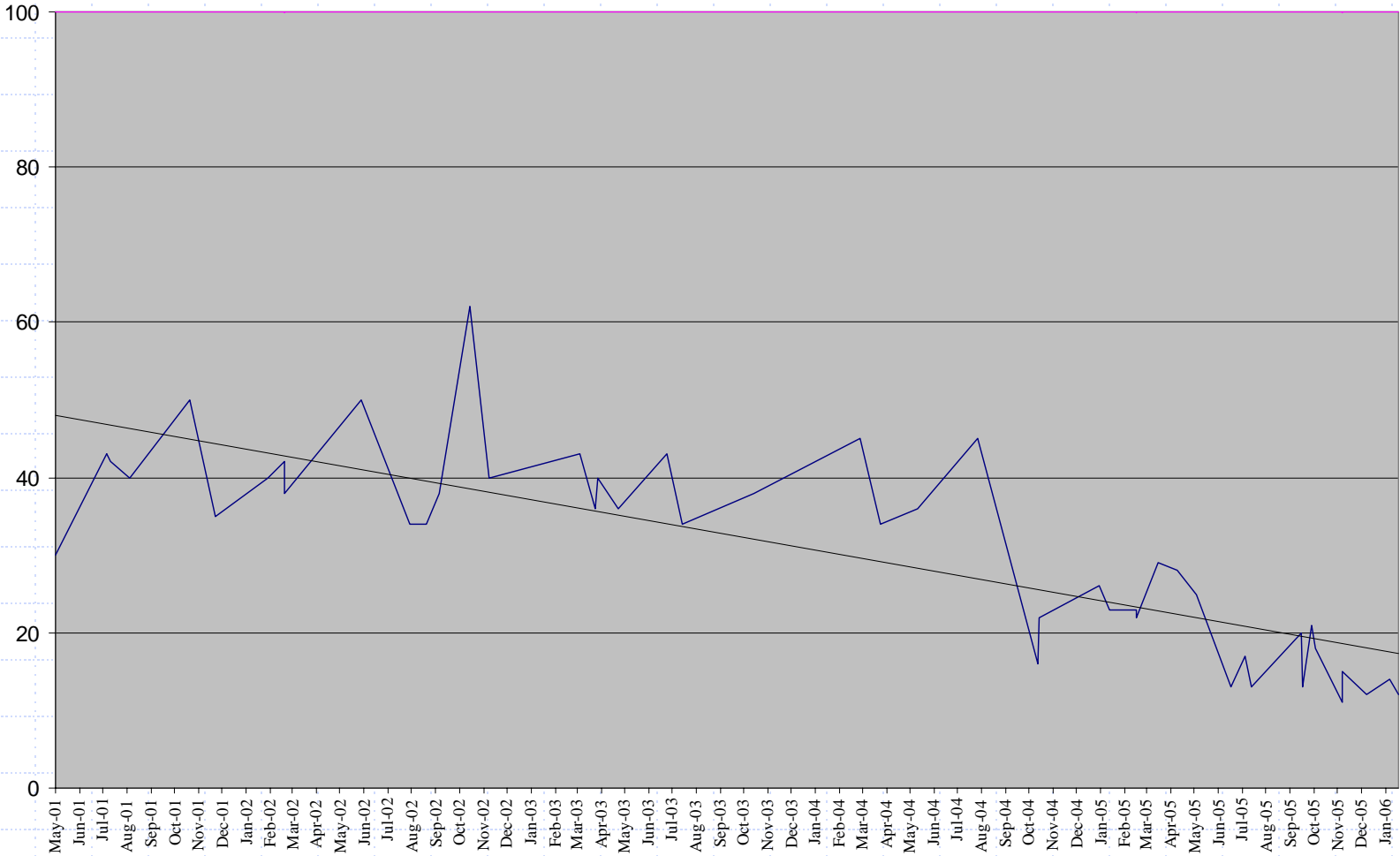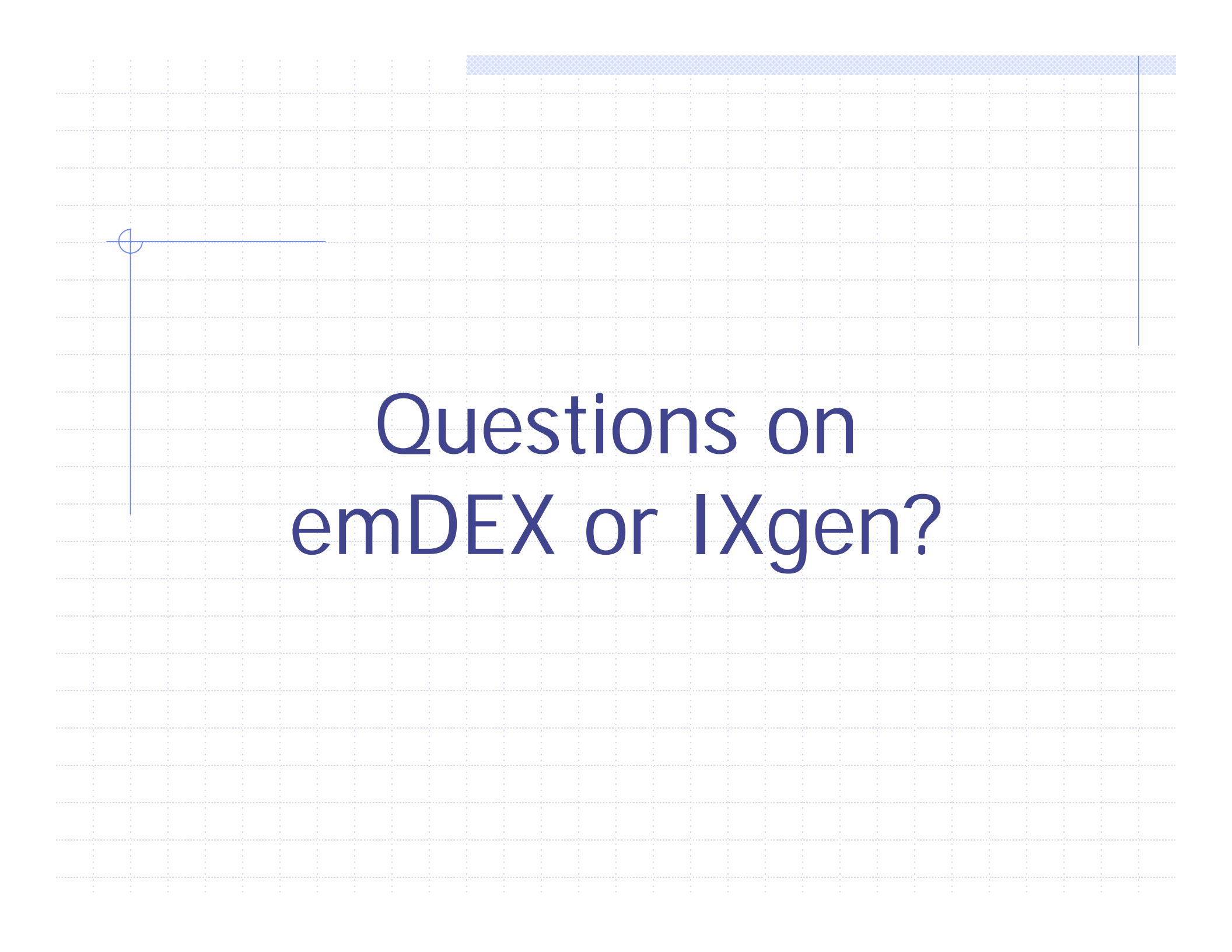
My embedding process using FrameMaker and utilities
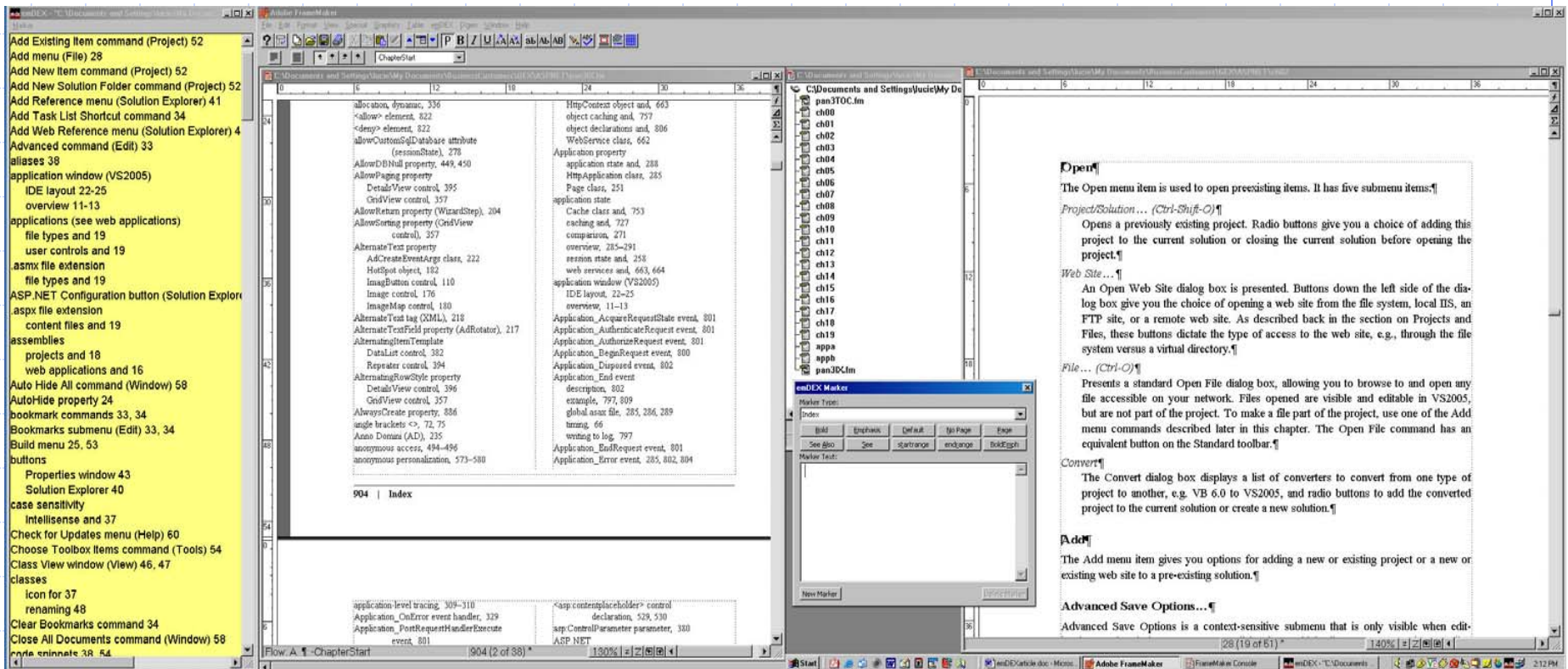
◆ two-screen layout
◆ use index as static (previous chapters) guide

◆ emDEX window as dynamic (current chapter) guide
◆ edit by hyperlinking from generated index

Pages per hour

Editing as percentage of time

Questions on emDEX or IXgen?

Microsoft Word

- Difficulties embedding with Word alone

- Benefits of third-party utilities

- Processes for third-part utilities
  - DEXter process
  - WordEmbed process

- Client processes for embedded indexes
  - Apress process
  - Microsoft process

Difficulties embedding with Microsoft Word alone

- Creating/entering index terms
- Previewing the index
- Editing index terms

Third party utilities for Microsoft Word

DEXter
http://www.editorium.com/DEXter.htm

WordEmbed
http://www.wordembed.jalamb.com

Embedding process in Microsoft Word with utilities

No need to index in Microsoft Word!

- ◈ index in proprietary software using:
  - line/paragraph/page locators (DEXter)
  - bookmarks as locators (WordEmbed)
- ◈ save index file as:
  - DAT file (DEXter)
  - RTF or MBK file (WordEmbed)
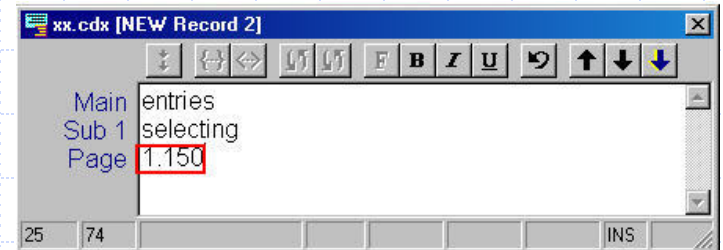- ◈ import index file into Microsoft Word

Using locators in indexing program

- DEXter
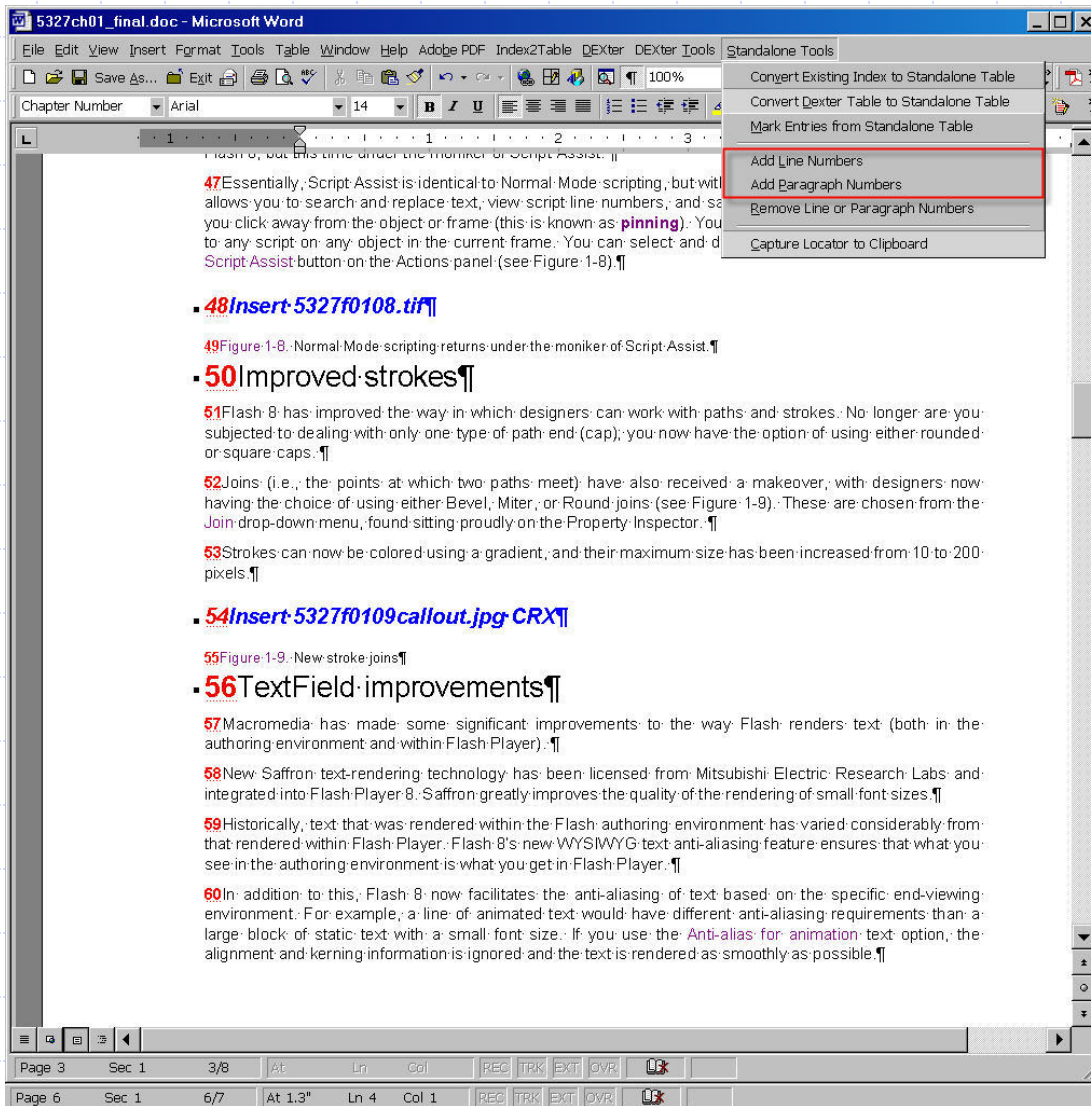
- WordEmbed

Saving index for import into Microsoft Word
– DEXter DAT file

```
acceptsURL·method·(DriverManager) → opening·database·connections → 166¶
autocommit·mode → connections·and → 441¶
BatchUpdateException·class → functionality → 393¶
CallableStatement·interface → functionality → 103¶
CallableStatement·objects → creating → 94¶
CallableStatement·objects → creating → 190¶
CallableStatement·objects → creating → 203¶
CallableStatement·objects → creating → 209¶
CallableStatement·objects → ResultSet·objects·and → 105¶
case·sensitivity → Java·and → 19¶
checked·exceptions → defined → 370¶
classes → See·also·utility·classes¶
classes → cores→82¶
classes → importing → 134¶
classes → initializing → 143¶
CLASSPATH·environment·variable → registering·drivers → 149¶
```

Saving index for import into Microsoft Word
– WordEmbed formats

Putnam

    Putnams's Italy, 2.160-2.30

      Naples, 2.30

Scandanavians. See Norwegians

skills: uses of, 2.210

} **CMS (RTF file)**

Putnam:Putnams's Italy, 2.160-2.30

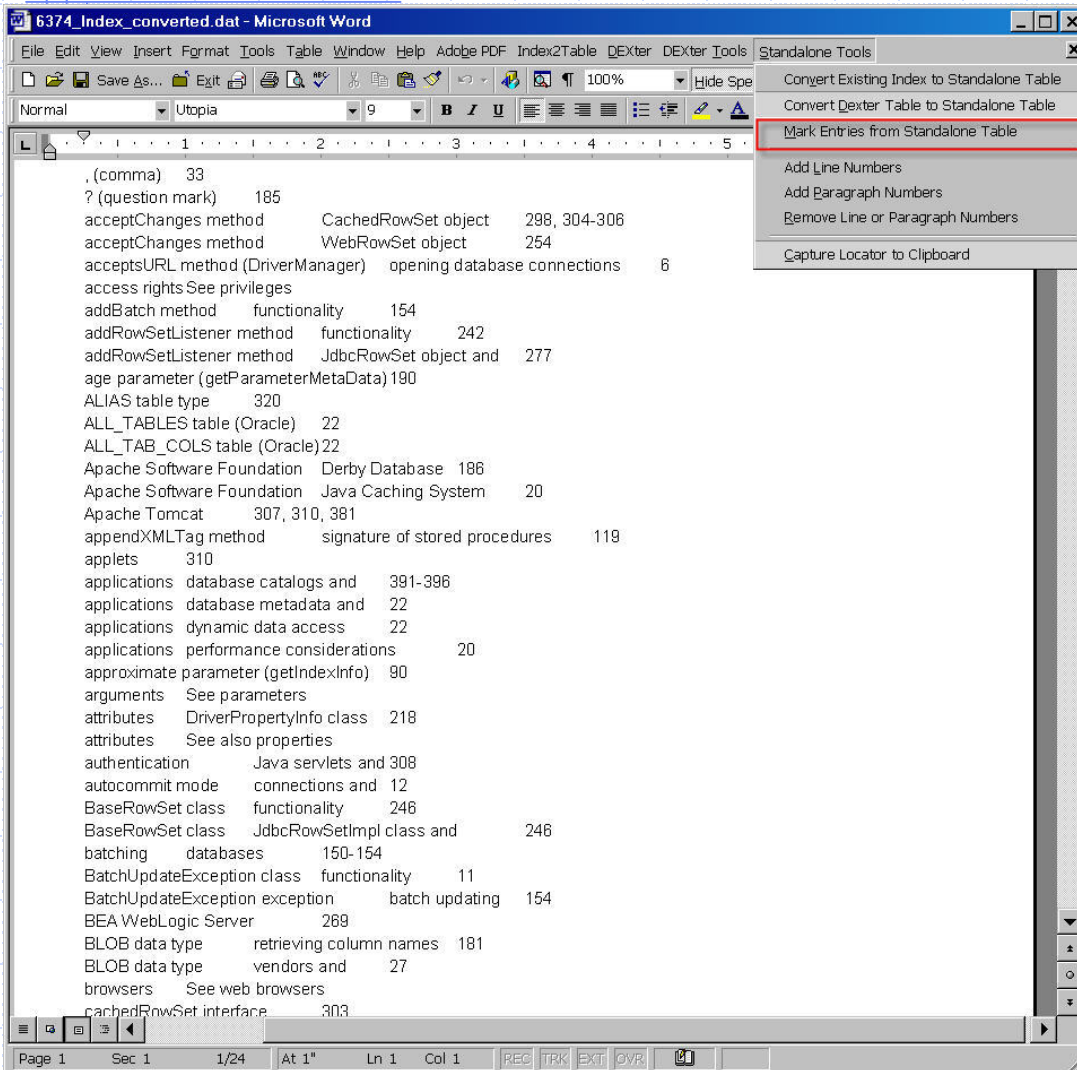Putname:Putnam's Italy:Naples, 2.30
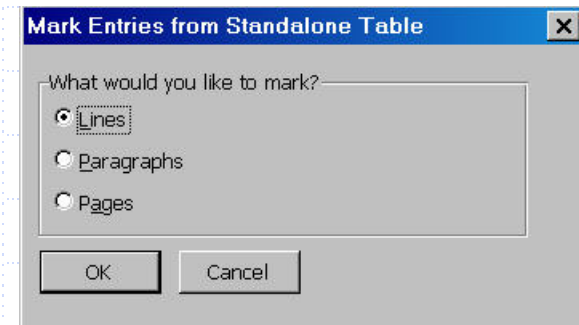
Scandanavians ^see^ Norwegians

skills: uses of, 2.210

} **MBK (Macrex) style format**

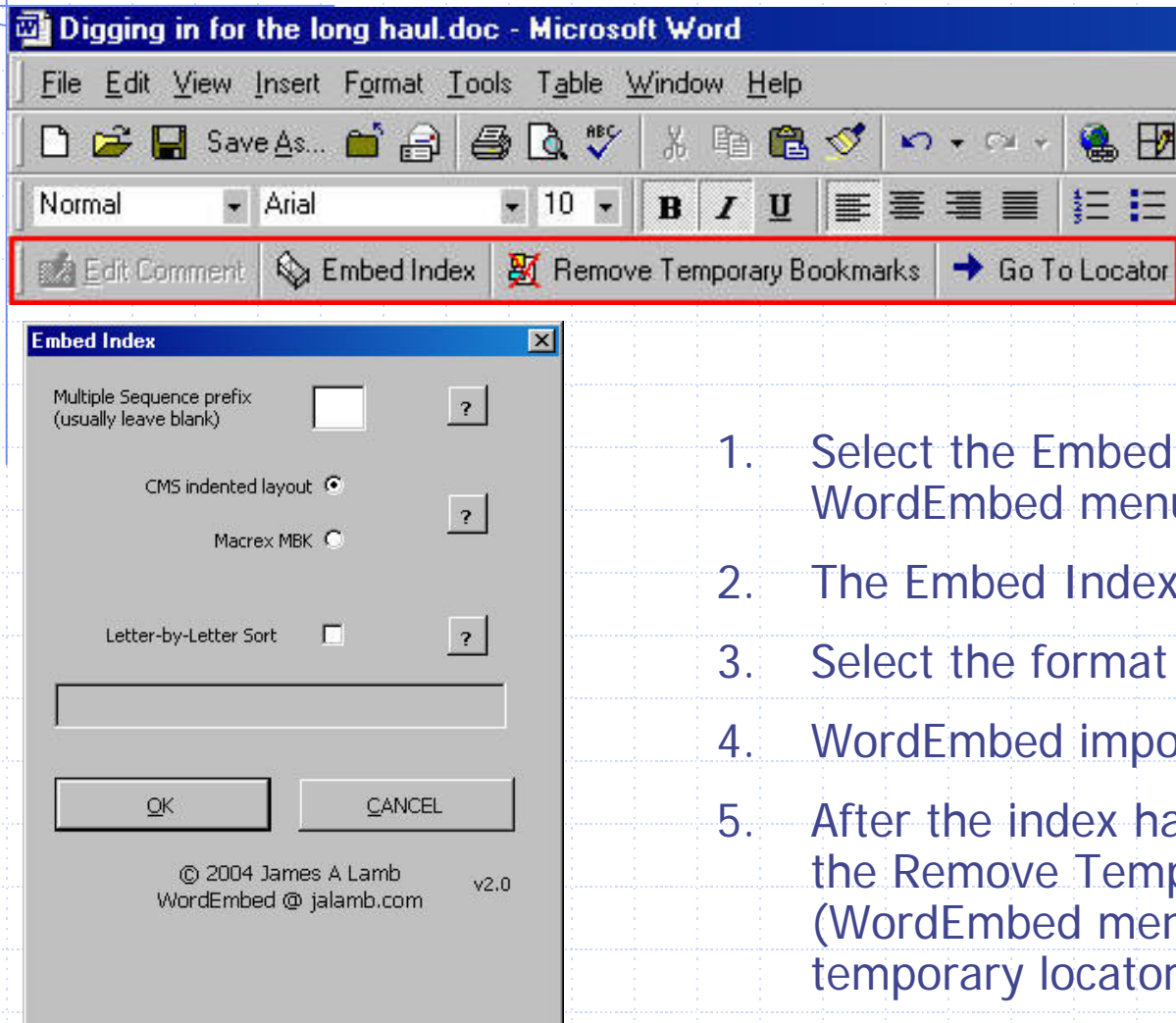# Importing index into Microsoft Word
- DEXter

1. Open Word document.

2. Open DAT file.

3. Select Mark Entries from Standalone Table.

4. Select Lines, Paragraphs, Pages from Mark Entries dialog box.

5. Import process completes.

Importing index into Microsoft Word
- WordEmbed

1. Select the Embed Index button from the WordEmbed menu bar.

2. The Embed Index dialog box displays.

3. Select the format desired.

4. WordEmbed import process completes.

5. After the index has been embedded, press the Remove Temporary Bookmarks button (WordEmbed menu bar) to remove the temporary locators created earlier.

Embedded index in Microsoft Word

Servlets make use of the Java classes in these packages:

{ XE "javax.servlet package"} *   **javax.servlet**: The basic Servlet framework

{ XE "javax.servlet.http package"}   *   **javax.servlet.http**: Extensions of the servlet framework for servlets that answer HTTP requests

{ XE "HTTP (Hypertext Transfer Protocol):Java servlets"}Typical uses for HTTP servlets include

{ XE "HTML (Hypertext Markup Language):Java servlets and"}{ XE "dynamic content"} *   Processing and/or storing data submitted by an HTML form

   *   Providing dynamic content, for example, returning the results of a database query to the client (as HTML, XML)

{ XE "HTTP (Hypertext Transfer Protocol):Java servlets"}   *   Managing state information on top of the stateless HTTP, for example, for an online shopping cart system that manages shopping carts for many concurrent customers and maps every request to the right customer

{ XE "Java servlets:overview"}{ XE "Java servlet engine:defined"}{ XE "Apache Tomcat"}A *Java servlet engine* is the Java application that executes the Java servlet. It is a mechanism by which a Java application can be written to provide dynamic web content. For example, Tomcat (**http://jakarta.apache.org/tomcat/**) has a servlet engine that you can use to execute Java servlets.

Questions on
DEXter or WordEmbed?

Client processes for embedding in Microsoft Word

- ◆ Apress

- ◆ Microsoft

Apress process

- Index one chapter at a time in proprietary indexing software
- Embed index entries one chapter at a time into Microsoft Word (using DEXter)
- Submit chapter containing embedded index entries to Apress
- At completion of book, edit final index and submit as RTF file

Initial learning curve with Apress process

- ◆ learning WordEmbed
- ◆ learning DEXter
- ◆ learning Word templates

Establishing a viable process for Apress projects
– training my eye to ignore clutter
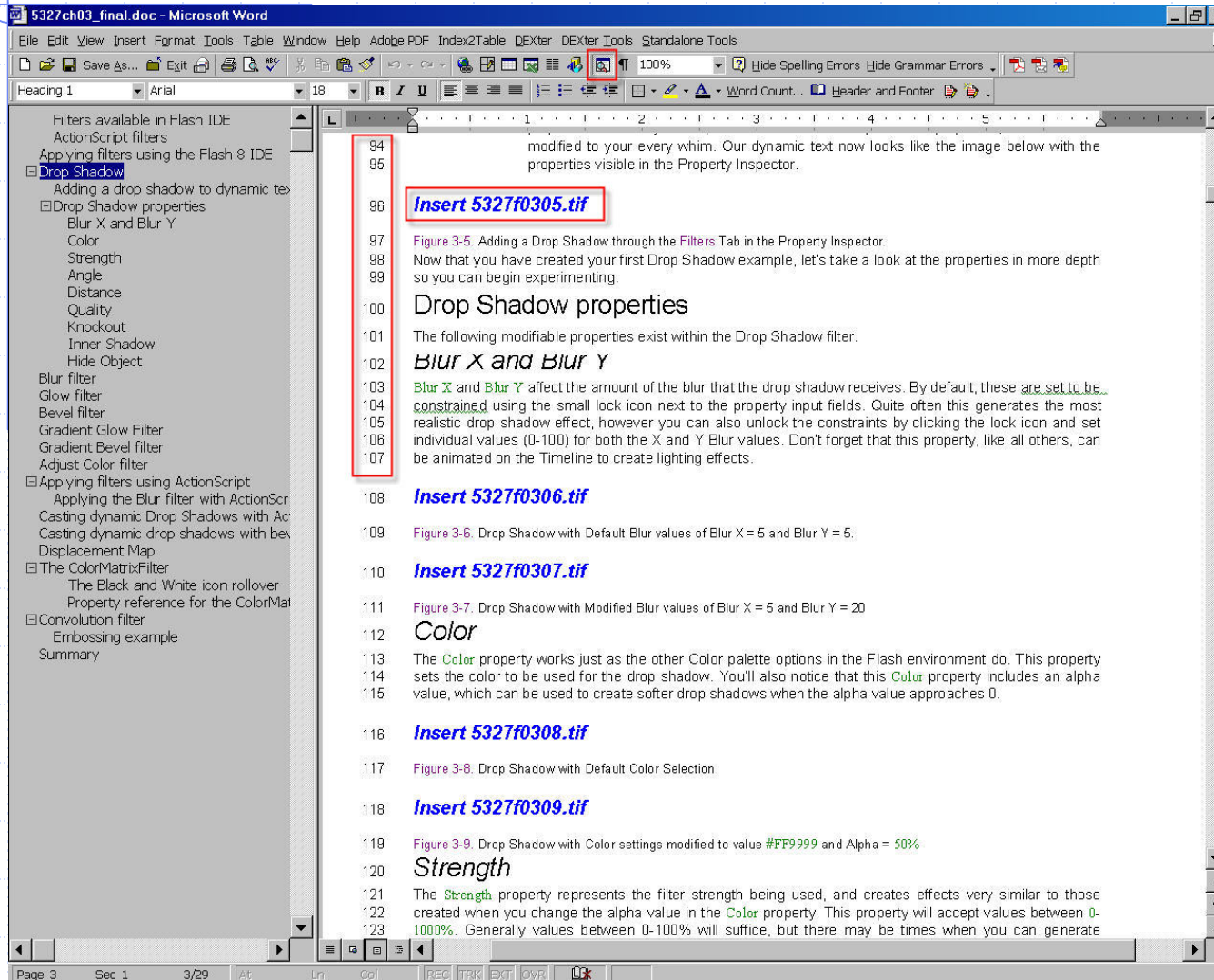
Clutter:
- line numbering
- document map
- instructions to compositor

Establishing a viable process for Apress projects
– indexing one chapter at a time
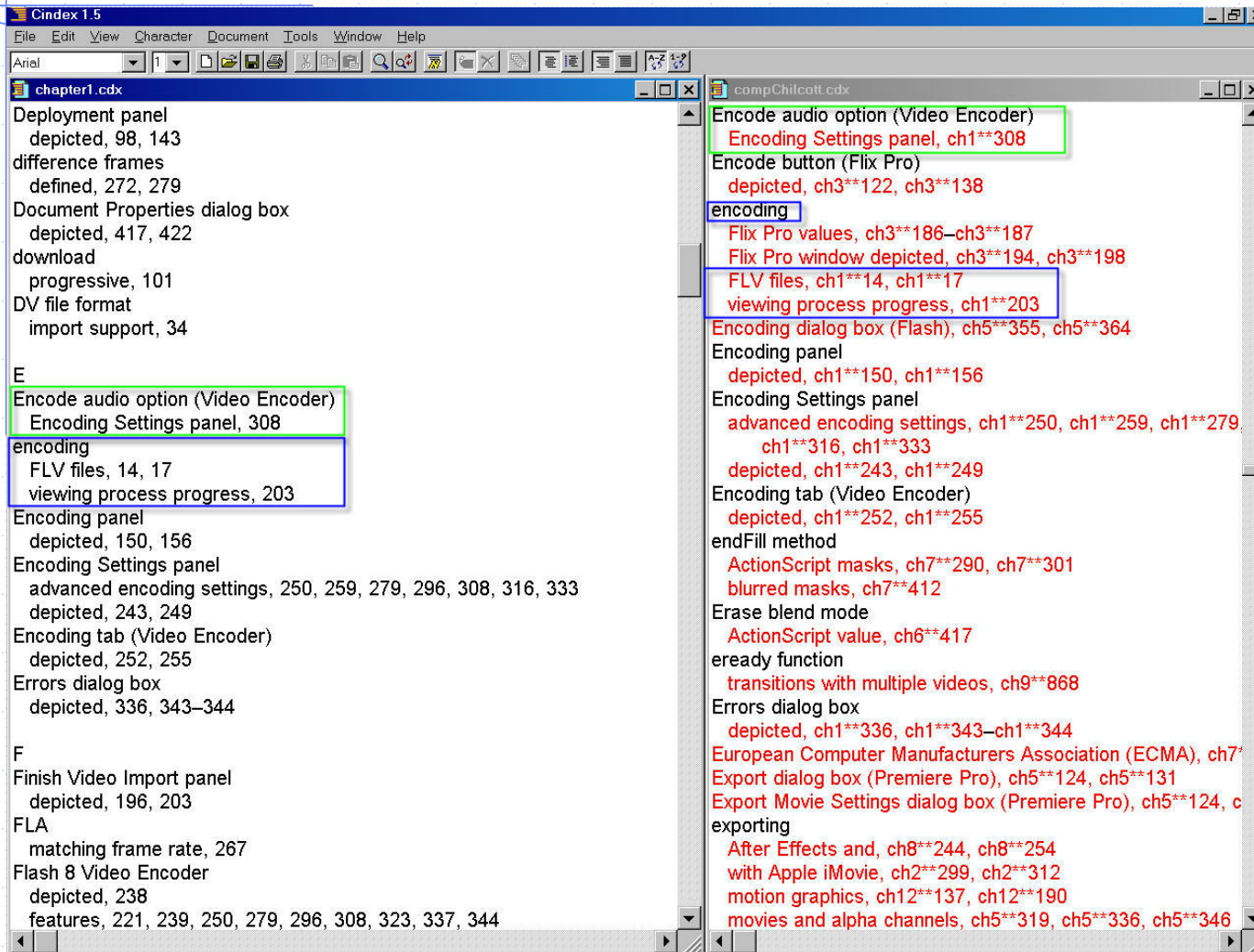
Establishing a viable process for Apress projects
- final edit
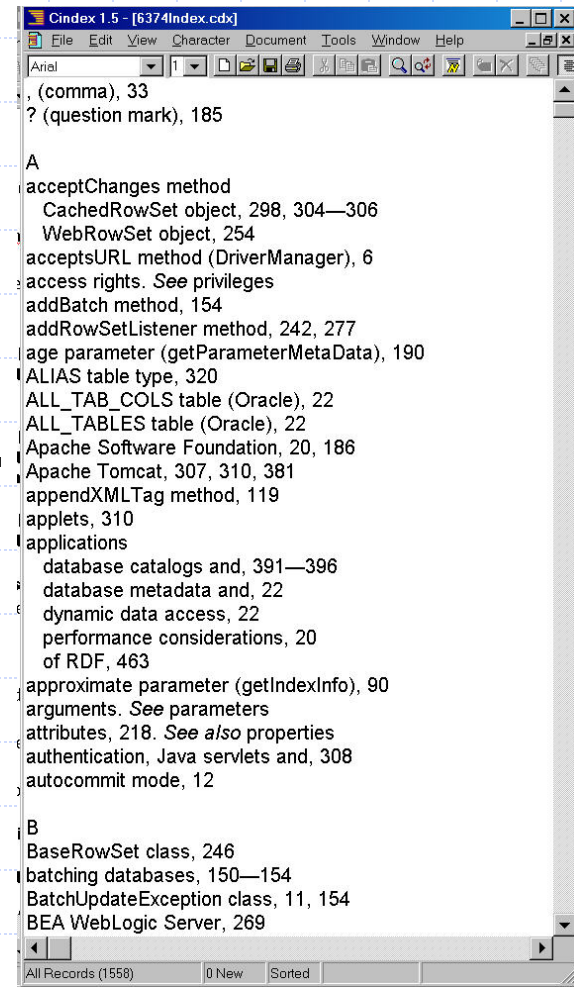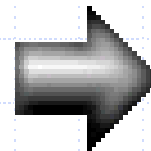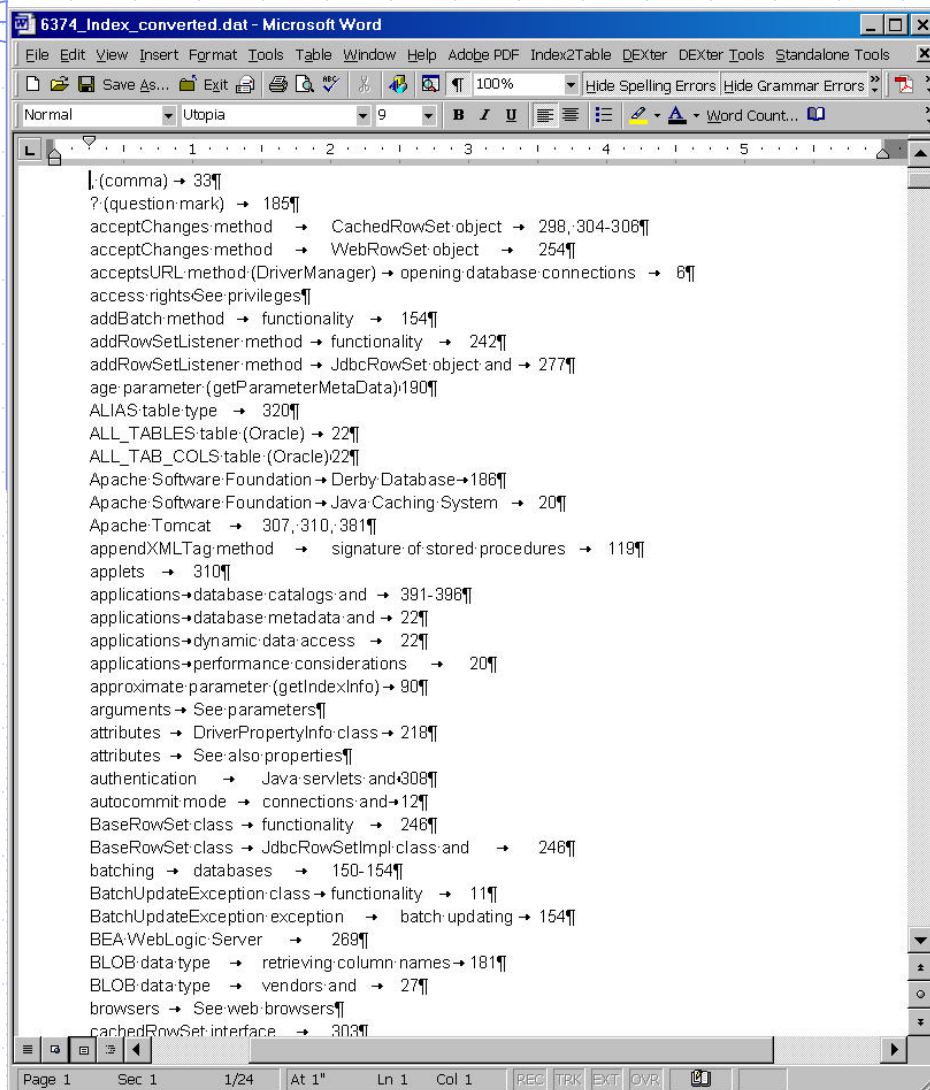
Questions on Apress process?

Microsoft process

◆ Index in proprietary software package using special locator strings embedded in Microsoft Word document

◆ Submit DAT file to Microsoft

◆ Microsoft completes process of embedding using the special locator strings

Establishing a viable process for Microsoft projects
- training my eye to ignore clutter

Initial learning curve with Microsoft process
– making sense of special locator strings

```
{XE "2543A.501.00.00.002.1"}  — long UID
         ----        --- -
          |           | |
         501.        002.1     — short UID
```

Establishing a viable process for Microsoft projects
– identifying indexable pages

Book Name	2274B: Managing in Microsoft Windows Server 2003 Environment				Date Rcv'd	11/23/2004	
Organization	Microsoft						
Contact					DATE DUE	**12/10/2004**	
Phone					Rate:		
Email						2900 to 3600 lines	
Chapter	From	To	Pages	Minus	Noninidexable Pages	Indexable Pages	
1	3	39	37	5	11,18,25,35-36	32	
2	2	77	76	25	13-15,24-25,32-34,40-41, 48-49,55,57,64-65,69-77	51	
3	2	63	62	19	17-18,21,24-25,27,33-36, 41-42,45-46,58-59,61-63	43	
4	2	64	63	20	3,6,20-21,35-37,41-42, 44-45,49-50,58-64	43	
5	2	51	50	17	3,15-16,22-23,30,44-54	33	
6	2	29	28	12	8-9,13-14,20,22,24-29	16	
7	3	29	27	9	15-17,24-29	18	
8	3	38	36	14	8-9,15,20,28,30-38	22	
9	2	56	55	23	8-10,15-17,27-29, 35-37,40,44-45,48-56	32	
10	2	65	64	18	10-11,23-25,29-30, 42-43,46,58-65	46	
		Total pgs	498	162	336	336	
		Rate:					
		Total Fees					

Questions on Microsoft process?