

# Using Crumbs 2.5

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Created by: Ricardo Garcia (rago)

Contact: [crumbs@ragomusic.com](mailto:crumbs@ragomusic.com)

Github: <https://github.com/ragomusic/crumbs>

Website: <http://crumbs.ragomusic.com>

Twitter: [@CrumbsSystems](https://twitter.com/CrumbsSystems)

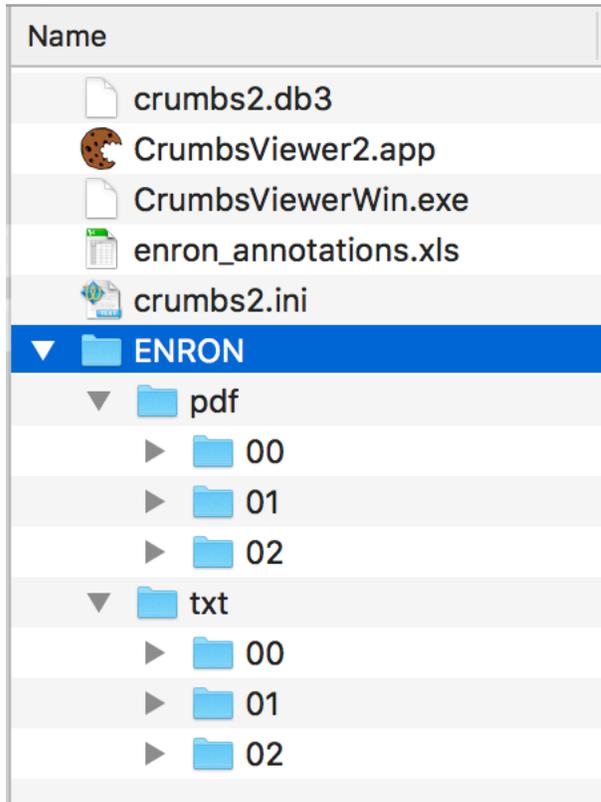


## Installing Crumbs

Crumbs can be compiled from sources in mac (xcode) or windows (visual studio 2012). You will need wxWidgets configured in your system. Read the sources and docs for your particular platform to create your crumbs executable.

Alternatively, the executables are distributed along with the Enron example (a sample of documents from the free available enron dataset). You can use this to start your own Crumbs data repository.

Your folder should have the executable, the ini file and database in the same folder like:



## Running Crumbs

Crumbs Evidence Viewer 2.5 mac(1) - crumbs.ragomusic.com

Type search here... Search Help ?

1< < 1605 > >>2999 ENRON

diversity

From: sally.beck@enron.com  
 To: gwynn.gorsuch@enron.com  
 Subject: Re: Mark Your Calendars: March 30 is Diversity/OLER Open House  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset=ANSI\_X3.4-1968  
 Content-Transfer-Encoding: quoted-printable  
 X-From: Sally Beck  
 X-To: Gwynn Gorsuch <Gwynn.Gorsuch@ENRON>  
 X-cc:  
 X-bcc:  
 X-Folder: \Beck, Sally\Beck, Sally\Sent Items  
 X-Origin: BECK-S  
 X-FileName: Beck, Sally.pst

I will be in New York on business on March 30th. Sorry that I will not be able to attend. The other person that I would send in my place is Beth Apollo. However, she will be on vacation next week. Can you give me any info that may be made available? Thanks. =20

Gwynn.Gorsuch@ENRON  
 03/22/2001 03:31 PM  
 To: =09Wilson Barbee/HR/Corp/Enron@ENRON, Daniel Brown/Enron@EnronXGate, Meliza Evanson/HOU/EES@EES, Khymberly Booth/Enron@EnronXGate, Gery Gibson/Corp/Enron@Enron, Donald Miller/HOU/EES@EES, Thomas Bowden/Enron@enronXgate, Kim Cadena/HOU/EES@EES, Ted C Bland/Enron@EnronXGate, David Oxley/Enron@EnronXGate, Toni Graham/Enron@EnronXGate, Sally Beck/HOU/ECT@ECT, Marla Barnard/Enron Communications@Enron Communications, Elisabeth Mends/Enron Communications@Enron Communications, Paul Trieschman/Enron Communications@Enron Communications, Kalen Pieper/HOU/EES@EES, Gary P Smith/OTS/Enron@ENRON, Brian Schaffer/Corp/Enron@ENRON, Dave Schaffer/NA/Enron@ENRON, Cindy Olson/Corp/Enron@ENRON, Steven J Kean/NA/Enron@Enron, Karen Marshall/HOU/ECT@ECT, Karen Moore/Enron@EnronXGate, Billy Lemmons/Corp/Enron@ENRON, Teresa Bosien/HR/Corp/Enron@ENRON, Tim O'Rourke/Enron@EnronXGate, Rafael Pina/HOU/EES@EES, Judy =

0. ENRON | 1532 First  
 1. ENRON | 1583  
 2. ENRON | 1605 Prev  
 3. ENRON | 1804 Next  
 4. ENRON | 1835  
 5. ENRON | 2990 Last

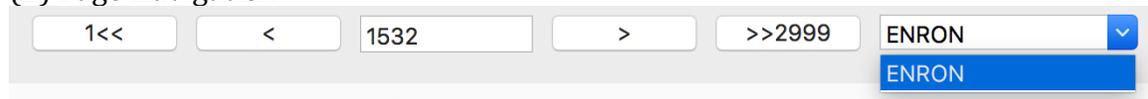
## Main Window Sections

(1) The documents show up here.

If the document has multiple pages, you can use the scrollwheel or page Up/Page Down keys to move to the next pages

You can right click to get the pdf menu to search within the document, print or change zoom.

(2) Page Navigation

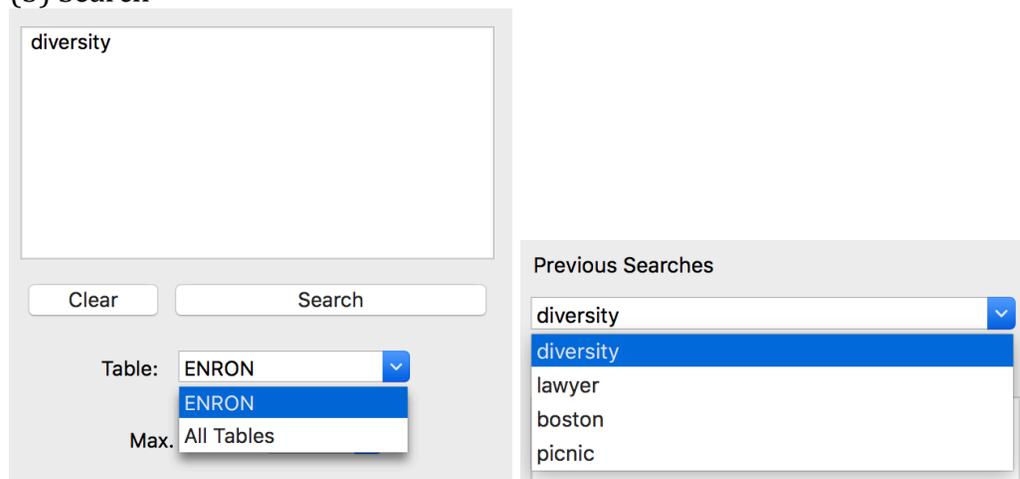


You can select which database you want to navigate (in this example there is only one database).

Use the buttons to go to First, Previous, Next or Last document in the Database.

You can type the document number and then enter to jump to that document

(3) Search



You can type any search keyword and select the database (table) of interest (or all). You can limit results to a given number.

Press the button [Search Help?] to show you some advanced search patterns (WARNING: this might not be working as well as expected, but simple AND/OR searches and wildcards(\*) work well)

Previous searches are remembered (only until you close the program, they are never persisted)

#### (4) Search Results

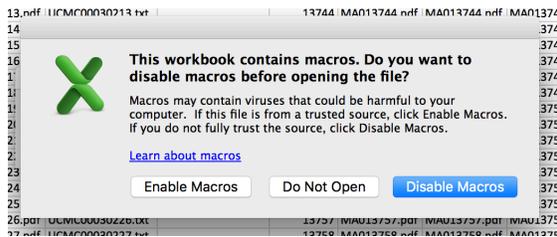
The list of the documents that matched the search is here. You can:

- Click on each one of them to immediately navigate there
- Use the buttons to go to first/previous/next/last of the list.

### Connecting Crumbs with Excel

The example spreadsheet has a MACRO (e.g. a little program), that can interact with Crumbs.

Leave the spreadsheet in the same folder than the crumbs executable program, and when you open it, allow macros to be run [Enable Macros]:



Once in the spreadsheet there are columns for comments and numbers of documents of interest (comma separated). There is a column named "Link", and colored in light blue. If you double click that cell, it will bring up Crumbs with the documents of interest in the search results.

You can add any rows to these spreadsheets, and as long as you preserve the formatting, double click in the Link column/cells will bring up crumbs.

