

SubEthaEdit Collaborative Distributed Editor by Richard Glaser

What is it?

A collaborative text editor

- Allows to share documents
 - On a local network (with Rendezvous)
 - Or on the internet
- Participants can type simultaneously and see what others are typing.





Information

SubEthaEdit is Freeware NOT Open Source
 Developed by The Coding Monkeys

• The Coding Monkeys is a small group of Computer Science students at Technical University of Munich.





Platforms

Runs on Mac OS X only!!!

Relies heavily on Coco framework

- Rendezvous
- Address Book



Some networking code

No plans to port to other platforms



Typical Usage

Meeting minutes:

No more arguing about who is minute taker.

Collaborative Authoring:

Write text together with your co-authors

Programming:

Improve your coding skills & productivity

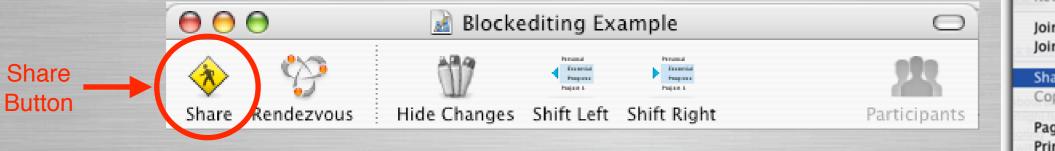




How to share a Doc? How to share a document...

Open Doc & Share

- Open an existing document or create a new one.
- Choose "Share" from the File menu or click the "Share" button in the document's toolbar.



File	Edit	Format	View
Nev	N		ЖN
Op	en		жo
Op	en Rec	ent	· · ·
Clo	se		жw
Sav	e		ЖS
Sav	e As		<u></u> ዮ ፝ ፝
Sav	e a Co	py As	
Rev	ert		
Joir	n		ЖК
Joir	n via In	ternet	압 ₩K
Sha	re		û ₩E
Cop	by Shar	ring URL	
Pag	e Setu	p	û業P
Prir	nt		ЖР



Pending Users

The Participants drawer opens at the side of the document.

If a user wants to join, their name & image (from the Address Book) appear in the Participants drawer under "Pending Users:".



ای ichard Glase

40 cards

Access Control

A

=

Richard Glaser

00



Accept or Deny Users

- Select the pending user in the participants drawer.
 - Accept or deny their request with the buttons at the bottom.



The kicked user receives the following message



You have been kicked

The owner of this document disallowed you to make changes. Further changes you make will not be applied to the owner's document.





Allow w/o Permission

- To allow access to all users without individual permission
- Deselect Access Control in the participants windows
 - Note, currently it doesn't have <u>Access Control</u> granularity like:
 - Allowing all Rendezvous participants but require permission for internet participants, etc.

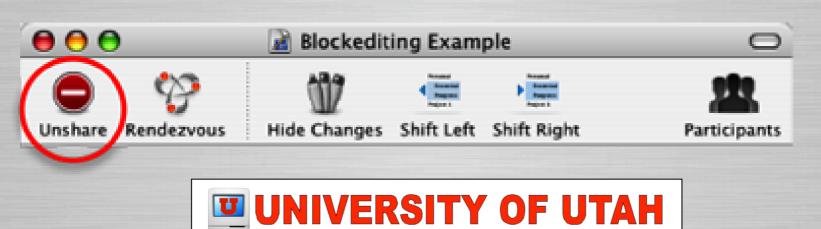




Unshare Doc

To unshare a document:

- Choose "Unshare" from the File menu.
- Or click the "Unshare" button in the document's toolbar.



File	Edit	Format	View
Nev	N		ЖN
Op	en		жо
Op	en Rec	ent	.
Clo	se		жw
Sav	'e		ЖS
Sav	e As		企₩S
Sav	e a Co	py As	
Rev	/ert		
Joir	ı		жк
Joir	n via In	iternet	ĉ₩K
Un	share		ି ₩E
Co	py Sha	ring URL	Toa
Pag	je Setu	ip	ûжР
Prin	nt		ЖP

Slide ||

Unshared Message

If you are a participant of a shared document.

• You will receive the following message.



The document has been unshared

The owner of this document stopped sharing it. Further changes you make will not be applied to the owner's document.

OK

<u>Note</u> - The doc window will still be open & you can still save the file.





Demonstration

Sharing a document...



How to connect?

Connecting to shared document...

Rendezvous or Internet

 You can join a shared document via Rendezvous or the Internet

- Rendezvous is limited to your subnet.
- Firewall port 30729 need to open

Specify a port on which you would like to receive networking traffic. Other ports can be specified by selecting 'Other' in the Port Name popup. Then enter a the port name and a number (or a range or series of port numbers) along with a description.		
Port Name:	Other 🛟	
Port Number, Range or Series:	30729	
Description:	SubEthaEdit	
rewall Off	Cancel OK	



Connect via Rendezvous

To connect via Rendezvous:

• Select "Join..." command from the "File Menu

File	Edit		
Ne	W		ЖN
Op	en		жo
Op	en Rec	ent	•
Sav	ve ve As	py As	₩W ₩S ଫ₩S
Joir	n		ЖК⊾
Joir	n via In	ternet	Ω ዤK
Sha Co		ring URL	企ℋE

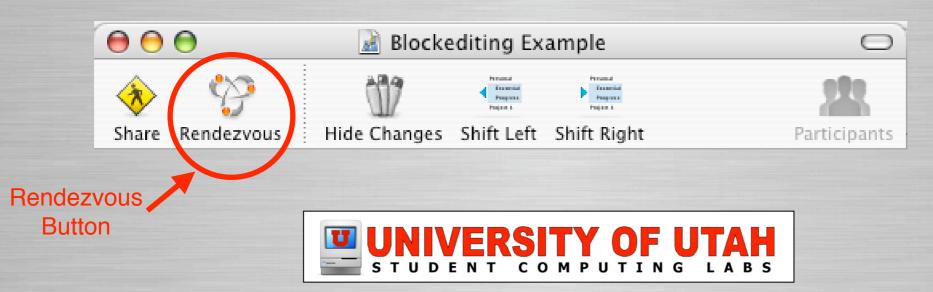
企業P

ЖP

Page Setup...

Print...

Click on Rendezvous button



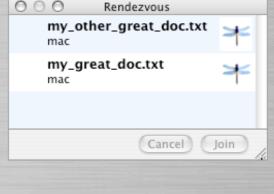
Slide 16

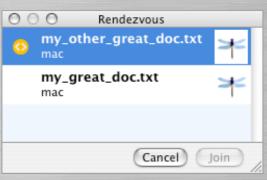
Accessing Shared Docs

Once you select Rendezvous

- You will see window display with shared documents.
- Select the a shared document click "Join" button
- If the host has Access Control enabled, you will see a "Status Requesting" icon.
- If access granted, icon changes.







00	Rendezvous	
\diamond	my_great_doc.txt mac	\star
	my_other_great_do mac	oc.txt
	Cano	el Join

Connect via Internet

• To connect via Internet:

 Select "Join..." command from the "File Menu

• Enter the IP or hostname in "Connect to Server" dialog.

00	Connect To Server
Address:	Connect
	UNIVERSITY OF UTAP

File	Edit		
Ne	w		ЖN
Op	en		жо
Op	en Rece	ent	•
Clo	se		жw
Sav	/e		ЖS
Sav	e As		企ℋS
Sav	e a Co	py As	
Rev	/ert		
Joir	n		жκ
Joii	n via In	ternet	企業K
	share		企ℋE
Co	py Shar	ring URL	
Pag	ge Setu	p	企ℋP
Pri	nt		ЖP

Shared Doc Browser Icons

The following icons are used:

Status Shared - Your shared document

Status Requesting - Requesting access for doc

Status Connecting - Access accepted for doc



Status Connected - A new window opens

Status Denied - Access denied for document.





Demonstration

Connecting to shared document...



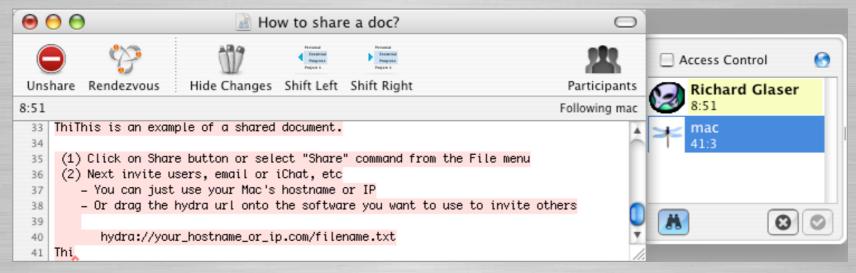
Notable Features

Cool and unique features...

Follow Participant

When connect to a shared document

- Double-click on the user in the Participant drawer.
- Or select the user and click on the binoculars.



• This useful in large rapidly changing documents



Blockediting

Edit multiple lines at once.

- Ideal for commenting, formatting and repetitive code structures.
- Hold down the option (alt) key while dragging a selection with the mouse. You can select multiple noncontiguous lines.
- Position the cursor within the selection and edit all lines at once. To stop blockedit press escape or click outside the selection.



Blockediting

0	😑 😁 💿 perl-ihook-screensaver.hook	0
(À Sha	re Rendezvous Show Changes Shift Left Shift Right Particip	k
		ants
	sigterm_handler\$	
33	while (1){	*
34	A serve the illest signales are weldthe servers. Very serve star somet the shares	
35	# move the iHook window around the screen. You may also want to change # the iHook window size with the %WINDOWSIZE directive.	
37	print("%WINDOWPOSITION TOP LEFT\n");	
38	steep(5);	
39	print("%WINDOWPOSITION TOP RIGHT\n");	
40	<pre>print("%BACKGROUND /Another/Custom/Image/Describing/How/To/Login\n");</pre>	
41	sleep(5);	
42	<pre>print("%WINDOWPOSITION BOTTOM RIGHT\n");</pre>	
43	<pre>print("%BACKGROUND^/Yet/Another/Image\n");</pre>	- i
44	sleep(5);	
45	<pre>print("%WINDOWPOSITION BOTTOM LEFT\n");</pre>	-
46	<pre>print("%BACKGROUND /Still/Another/Image\n");</pre>	
47	sleep(5);	
48	<pre>print("%WINDOWPOSITION CENTER\n"); print("%PACKCDOUND /Same (Custom (Instant (Instant</pre>	
49	<pre>print("%BACKGROUND /Some/Custom/Image/Telling/User/How/To/Kill/iHook\n"</pre>	
50); sleep(5);	
50	stoop(5),	
52	}	
53	L	
54	exit(0);	Ŧ
		11.



SubEthaEdit URLs

SubEthaEdit URLs:

SubEthaEdit now supports URLs and links. Click in your browser to join documents. Invite users to your document by sending them an url.

- Supports a "hydra://" URI scheme.
- To invite someone to your already shared document, drag the small globe in the upper right corner of the participants drawer to your email or chat client and send a message.



FTP Client Integration

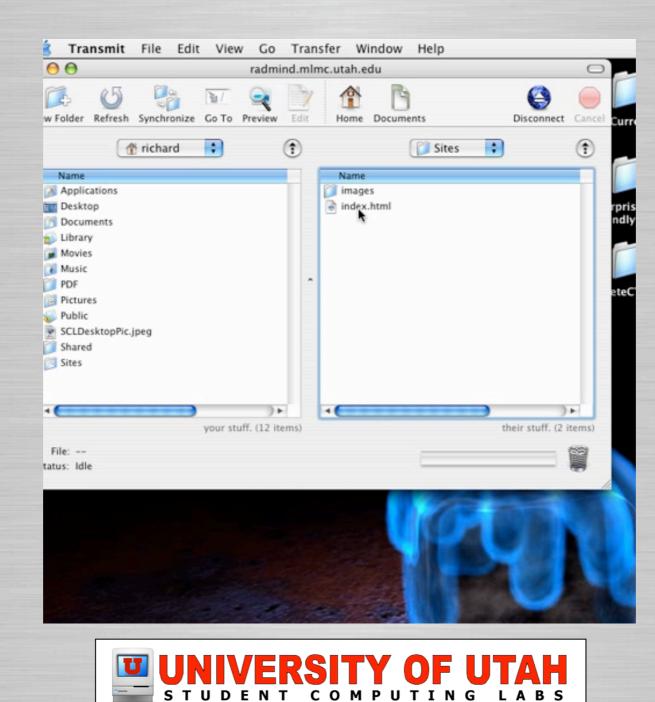
FTP Client Integration

SubEthaEdit implements an interface for FTP clients called "ODB editor suite".

- This allows to edit files out of you favorite ftp client with SubEthaEdit, enabling e.g. upload on save.
- Edit the document in SubEthaEdit like working locally. A "save" in SubEthaEdit will trigger your FTP client to upload the file.
- Works with Fetch, NetFinder, Fugu and Transmit

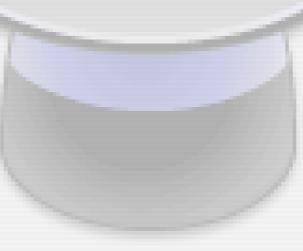


SubEthaEdit URLs & FTP





Tips & Tricks Secrets of the SubEthaEdit



Firewall

To share/join shared documents

- Port 30729 must be open
- Create New Firewall Configuration

\varTheta 🔿 Sharing	0
Show All Displays Sound Network Startup Disk	
Computer Name: Razzle's Box Other computers on your local subnet can reach your computer at Razzles-Box.local Edit Services Firewall Internet Firewall Off Start Click Start to prevent incoming network communication to all services and ports other than those enabled below. Allow: On Description (Ports) Personal Web Sharing (80, 427) Remote Login - SSH (22) FTP Access (20-21, 1024-65535 from 20-21) Remote Apple Events (3031) Printer Sharing (631, 515) Delete	Specify a port on which you would like to receive networking traffic. Other ports can be specified by selecting 'Other' in the Port Name popup. Then enter a the port name and a number (or a range or series of port numbers) along with a description. Port Name: Other Port Number, Range or Series: 30729 Description: SubEthaEdit Cancel OK
Click the lock to prevent further changes.	

Slide 29

STUDENT COMPUTING LABS



Issues & Features

Feature requests and problems...



Dynamically Applied Prefs

Oynamically Applied Preferences

- Doesn't support applying new preferences to open documents like BBEdit
- Options like text wrap, line numbers

🖯 🔿 Prefe	rences
File	Colors
Open new document at startup Default encoding: Automatic Line endings: Unix (LF)	Own color: Yellow Pale strong Selection/Cursor Changes
Edit Editor uses tabs Tab width: 4 Indent new lines Show matching brackets Wrap lines Show Line Numbers	Highlight changesin local documents Document background color: Document foreground color:
Syntax Default mode: None	Font Set Monaco 10



Saving Shared Doc's

Saving Shared Documents

- More difficult than it needs to be...
 - Must manually select "Save a Copy As.." command from File menu.
 - Replace or rename file after each save.

File Edit Format	View
New Untitled.txt (₩N
Open	жо
Open Recent	•
Close	жw
Save	жs
Save As	企業S
Save a Copy As	N
Revert to sold thurs	day that s
Join	ЖК
Join via Internet	ΰ₩K
Unshare	ŵже
Copy Sharing URL	
Page Setup	ûжР
Print	ЖP

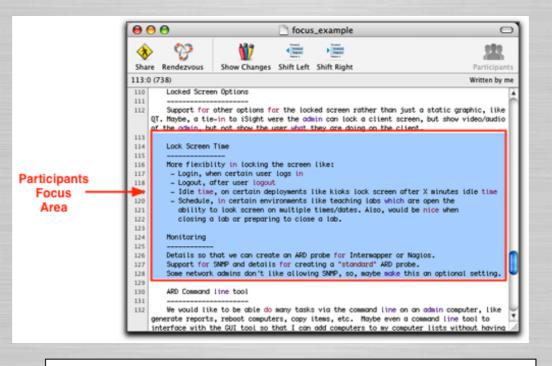


Versioning & Focus

Versioning

- Allow viewing and reverting to previous edits.
- Focus

• Allow host restrict participants to part of doc





Granular ACLs & Blocking

Granular Access Controls

- More granular access controls
 - Allowing rendezvous connect w/o permission
 - Require permission for only Internet participants
 - Support observe mode

Blocking

- Support for participant blocking
- Similar to iChat functionality





Questions & Answers

Any questions or answers?