

US914

**EFFECTIVE  
COLLABORATION  
AT A DISTANCE**

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REVISION DATE 061119

# PLEASE...

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- Please try to hold questions until the end
- Or... if we're too brief and something doesn't make sense, ask for more detail and we'll try to accommodate
- We have a vague idea of upcoming topics in the presentation, so we may wait for a more full explanation.

# WHO ARE WE?

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- Benjamin Levy
  - Owner – Solutions Consulting, Los Angeles
  - Apple Consultants Network since 1925
  - Apple Certified Trainer
  - Apple Certified Technical Coordinator
  - Vice-President, L.A. Palm/Portable User Group

# WHO ARE WE?

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- Phil Goodman
  - Owner – Goodman Consulting, Los Angeles
  - Apple Consultants Network since 1989
  - Apple Certified Technical Coordinator
  - FileMaker Solutions Alliance Associate
  - Founder & President of L.A. Palm/
  - Portable User Group ([lapug.com](http://lapug.com))
  - Former faculty at UCLA teaching computer science
  - Original American Bandstand dance understudy

# WHO ARE WE?

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- *Andy Espo*
  - Owner – Call Andy! Macintosh Consulting, Boston
  - Partner - BzWorks, Inc.
  - Apple Consultants Network member since 1998
  - ACN Advisory Council member
  - Director, BMac User Group

Updated presentation is available on the web in PDF form for easy download:

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- <http://www.rockinbeat.com/resources.html>
- <http://www.callandy.com/seminars>
- <http://www.goodmanconsulting.com/seminars>

# DEFINING TERMS...

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- collaboration |kə,ləbə'rā sh ən| |kə'ləbə  
 ,reɪʃən|
- noun
- **1** the action of working with someone to produce or create something : *he wrote on art and architecture **in collaboration with** John Betjeman.*
- ● something produced or created in this way : *his recent opera was a collaboration with Lessing.*
- **2** traitorous cooperation with an enemy : *he faces charges of collaboration.*

- We'll ignore that second definition...



# THE MOST EFFECTIVE COLLABORATIVE TOOL ON THE MARKET TODAY?

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- Works with any OS
- Long MTBF
- Permits multi-tasking
- Low initial purchase cost



# TECHNOLOGY IS TOO EASY..

## LET'S DO THE HARD WORK

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- Define your goals and expectations
- The least expensive options may be the best
- The least intrusive options may be the best
- Open protocols are better
- Multi-source options are better
- Think about maintenance... It's a limiting factor

# TYPES OF COLLABORATION

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- Delayed Communication
  - Snail Mail
  - E-Mail
- Direct Communication
  - Voice
  - Text
  - Video
  - Instant Messaging (iChat, AIM, MSN, Yahoo, Jabber, etc.)

# TYPES OF COLLABORATION

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- Shared Access To Work
  - Servers
  - .Mac
  - Other External Services
- Shared Workspace
  - SubEthaEdit, etc.
- Shared Program Access
  - Multiple party control over an application
  - Remote Control software (TB2, ARD, VNC)

# TYPES OF COLLABORATION

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- Shared Resources
  - Calendar
  - Contacts
- Shared Messaging Space
  - Blogs
- Shared Knowledgebase
  - Wikis

# WHAT WE'LL LOOK AT:

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- iChatAV - Tiger and Leopard
- SubEthaEdit
- Marratech
- Timbuktu
- Apple Remote Desktop
- VNC
- And more...

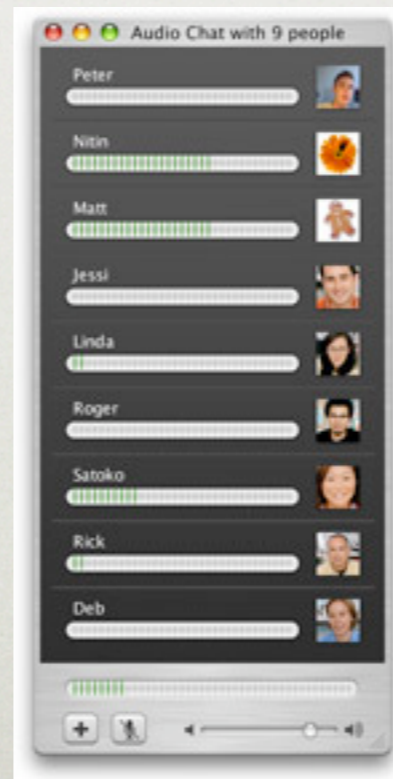
# ICHAT

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- Video & Audio conferencing for “free”
  - Comes with Mac OS 10.4
- Not just for play
  - The effectiveness of face-to-face
- It's how we built our presentations last year

# ICHAT

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# WHAT IS ICHAT ANYWAY?

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- Instant Messaging / Video Chat / Audio Chat
  - Utilizes H.264 (MPEG-4 Part 10) codec
  - Uses SIP (Session Initiation Protocol)
  - Leverages the AIM network
  - Integrated camera & microphone, or
  - iSight camera

# ICCHAT REQUIREMENTS

Requirements		1-to-1 Audio Conference	10-Person Audio Conference	1-to-1 Video Conference	4-Person Video Conference
To Initiate (Host)	System Required	Any G3, G4, G5, or Intel Core processor	1GHz G4, dual 800 MHz G4, any G5 or Intel Core	600MHz G3, any G4, any G5 or Intel Core	Dual 1GHz G4, any G5 or Intel Core
	Bandwidth Required	56Kbps Internet connection (up/down)	128Kbps Internet connection (up/down)	100Kbps Internet connection (up/down)	384Kbps Internet connection (up/down)
To Participate	System Required	Any G3, G4, G5, or Intel Core processor	Any G3, G4, G5, or Intel Core processor	600MHz G3, any G4, any G5, any Intel Core	1GHz G4, dual 800 MHz G4, any G5, or any Intel Core
	Bandwidth Required	56Kbps Internet connection (up/down)	56Kbps Internet connection (up/down)	100Kbps Internet connection (up/down)	100Kbps Internet connection (up/down)

# ICHAT REQUIREMENTS:

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- iChat & routers
  - TCP & UDP ports 5190, 5298
  - TCP ports 5220, 5222
  - UDP ports 5060, 5353, 5678, 16384-16403
- Apple KnowledgeBase article #93208

# ICHAT - LEOPARD

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- What's been announced?
  - Video Backdrops
  - Screen sharing
    - Observe & control with audio
  - iChat Theater
    - Show a Keynote presentation remotely

# WHAT'S A SUBETHAEDIT?

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- Collaborative Text Editing software
  - Peer to peer - no server
- Uses Bonjour
- TCP ports 6942-6951
- [www.codingmonkeys.de](http://www.codingmonkeys.de)

# WHAT'S A SUBETHAEDIT?

The image shows a screenshot of the SubEthaEdit application interface. The main window displays Objective-C code for a document class. Several features are highlighted with orange lines and labels:

- Control Access:** Points to the 'Access Control' sidebar on the left, which shows a 'Locked' status and a list of participants with their roles (Read/Write, Read Only).
- Control Announcement:** Points to the top status bar of the main window, which shows the current document name and the number of pending changes.
- See Changes:** Points to a line of code in the main window that is highlighted in green.
- Join Others:** Points to the 'Join Others' sidebar on the right, which shows a list of participants and their roles.
- Invite Others:** Points to the 'Invite Others' sidebar on the right, which shows a list of participants and their roles.
- Accept new Participants:** Points to the 'Pending Users' section in the 'Access Control' sidebar.
- Customizable Highlighting:** Points to a line of code in the main window that is highlighted in orange.
- Locate Participants:** Points to the 'Internet' sidebar on the right, which shows a list of participants and their roles.
- Browse via Internet:** Points to the 'Internet' sidebar on the right, which shows a list of participants and their roles.

```
85:14 [setupInitialTextViewSharedState:]
86:  implementation: Document
87:
88: - (void)setupInitialTextViewSharedState {
89:     NSTextView *textView = [self firstTextView];
90:
91:     [textView setUsesFontPanel:YES];
92:     [textView setUsesFindPanel:YES];
93:     [textView setDelegate:self];
94:     [textView setAllowsUndo:YES];
95:     [textView setAllowsDocumentBackgroundColorChange:YES];
96:     [textView setContinuousSpellCheckingEnabled:
97:         ([[Preferences objectForKey:CheckSpellingAsYouType] boolValue)];
98:     [self setRichText:([[Preferences objectForKey:RichText] boolValue)
99:         defaultAttachments:NO show ruler:NO];
100:    [self setHyphenationFactor:0.0];
101: }
102:
103: - (id)init {
104:     static NSPoint cascadePoint = {0.0, 0.0};
105:     NSLayoutManager *layoutManager;
106:     NSZone *zone = [self zone];
107:
108:     self = [super init];
109:     textStorage = [[NSTextStorage attachToZone:zone] init];
110:
111:     if (![[NSBundle loadWithNamed:@"DocumentWindow" owner:self]
112:         NSLog(@"Failed to load DocumentWindow.nib");
113:         [self release];
114:         return nil;
115:     }
116: }
```

# MARRATECH

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- Cross-platform client-server
  - Mac, Windows & Linux clients and servers
- Text, chat & whiteboard

# MARRATECH

The screenshot displays a Carrider - Marratech meeting window. On the left, a Microsoft Excel spreadsheet titled 'Sales Results.xls' is shown. The spreadsheet contains data for various regions and a summary row for '% Achieved'. A line graph below the spreadsheet shows a significant increase in sales over time. On the right, a video call interface shows a grid of participants, with one participant, Sara, highlighted. Below the video call is a chat window with a list of messages.

	01	02
01	700	1000
02	570	675
03	450	700
04	1720	2325
05	890	920
06	612	650
07	480	510
08	1982	2080
09	115%	116%
10	113%	129%
11	123%	130%

Significant increase!!

Sara

Public Sara Tom

12:58 PM [Pri] John: Good to see all you guys on line :)

12:58 PM [Pri] Paul: Never late for your meetings...

12:58 PM [Pri] Alan: John, please send me you have contact info

12:58 PM [Pri] Sam: I will email you separately on that

12:58 PM [Pri] Alan: Please send to me also Tom

12:58 PM [Pri] Chris: And me please!

Anyone know if Jim P is joining this meeting?

**Whiteboard**  
Present your information and receive feedback via annotations in text or diagrams that can be saved for future reference

**Video**  
See who's talking and enhance impact of meeting

**Participants**  
See who is in the meeting and interact with them

**Voice over IP**  
Low delay, crystal clear voice. Talk to the entire group or privately to individuals

**Instant Message**  
Send messages and exchange information with the entire group or on a private one-to-one



# ADDITIONAL OPTIONS THAT NEED MORE INFORMATION

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- <http://iscrybe.com/main/index.php>
- <http://ace.iserver.ch/index.php>
- <http://www.plumcanary.com/collaboration-features.jsp;jsessionid=43A7000BEB09EF45AD83BD66DF33752E>
- <http://cinesync.com/>
- <http://www.collaba.ca/en/>
- <http://www.bassetsoftware.com/osx/collaboradoodle/>
- <http://shimkus.com/CLI/Collaborate.html>
- <http://www.hrsoftworks.net/Products.html>
- <http://www.courseforum.com/projectforum/index.html>
- <http://www.groupville.com/>
- <http://www.kerika.com/>
- <http://www.aquaminds.com/nsProduct.jsp>
- <http://www.zimbra.com/community/downloads.html>
- <http://homepage.mac.com/rossetantoine/osirix/Index2.html>
- <http://www.mathgamehouse.com/istorm/>
- <http://www.pure-mac.com/bbs.html>

# DEMO

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# RESOURCES

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- <http://www.apple.com/macosex/features/ichat>
- [www.codingmonkeys.de](http://www.codingmonkeys.de)
- <http://www.marratech.com>

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