

A9 Example

HighQu - Hans Yuan, Xu Li, Brian Nguyen

A9: Results!

Hans Yuan <A11511403>, Brian Nguyen <A11330308>, and Xu Li <A53208574> http://ixd.ucsd.edu/home/w17/assignments/A8/

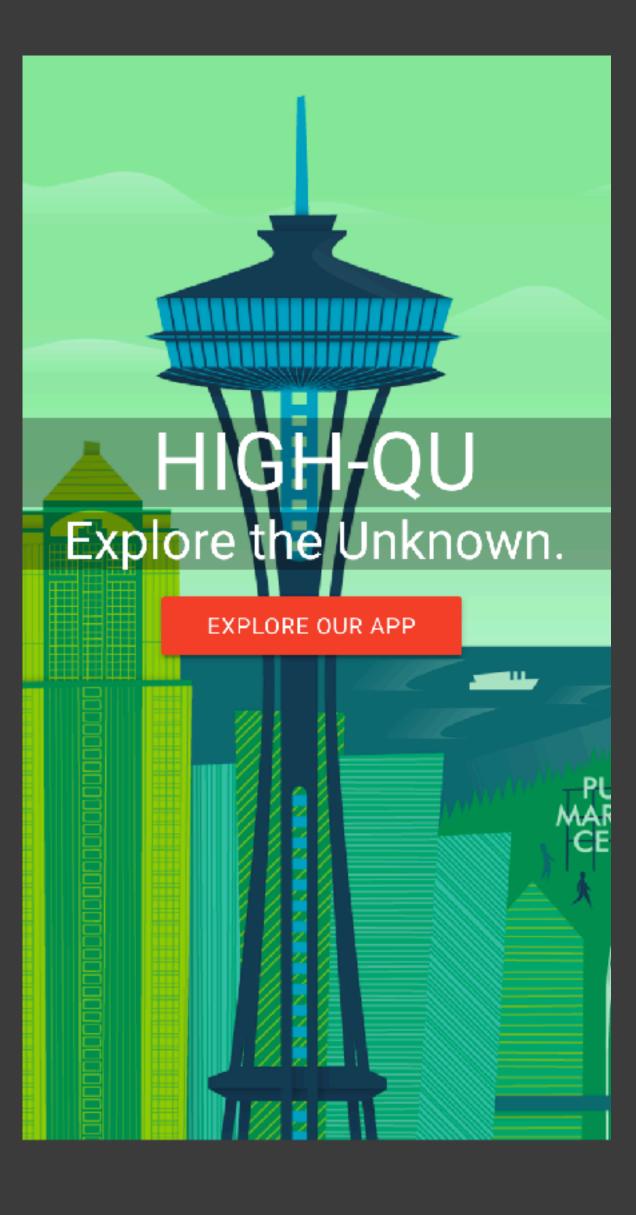
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	Hans coughing his lungs out, part 2
	Rest in peace dynamic links
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	Google, pls be clearer in documentation. Thanks.
	WAY TO GO BRIANI
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The Challenge of Creating Community



What makes for effective online communities?



Same Time

Collocated (Same Place)

Remote (Diff't Place)

Different Time

Same time / same place

- Face to face interaction
- •Roomware
- •Shared tables, wall displays
- Group Decision Support Systems (GDSS)
- •Single display groupware

Example : same time / same place







Different time / same place

- •Message Boards
- Dedicated Team rooms
- Large displays

Example: Ideas for Different Time / Same Place

Airport Display: Arrival/Departure Information

DEPARTURE	CARRIER - FL	IGHT- PAI	RTNER	GATE	TIME	STATUS
Dallas /Ft	A American	AA 1783		B71	4:30P	On Time
Dallas /Ft	QANTAS	QF 4594		B71	4:30P	On Time
Dallas /Ft	// UNITED	UA 7681	US 7619	A2G	4:50P	On Time
Dayton	/ UNITED	UA 7989	QR 5649	C26	5:30P	On Time
Daytona Beach	🛦 DELTA 🛞	DL 1449		B76	4:06P	On Time
Denver	/ UNITED	UA 517	US 6257	C23	2:40P	On Time
Denver	🖉 UNITED	UA 903	US 6259	C19	4:22P	On Time
Denver	/ UNITED	UA 937	LH 9058	C4	5:28P	On Time
Denver	-O- SOUTHWEST	WN 2683		B50	5:40P	On Time
Detroit	nwa AIRLINES	NW 3721		B72	4:45P	On Time
Detroit	/ UNITED	UA 7348	US 7608	A3	5:09P	On Time
Frankfurt	// UNITED	UA 916	LH 9051	D3	5:26P	On Time
Frankfurt	SLufthansa	LH 419	UA 8832	B49	5:50P	On Time
Frankfurt	Dufthansa	LH 419.	UA 8832	B51	5:50P	On Time
Ft.Lauderdale	jetBlue	B6 309		B62	3:15P	Delayed
Geneva	/ UNITED	UA 974	LX 3203	C6	5:41P	On Time
Greensboro	🖉 UNITED	UA 7842	BD 4626	A4	4:46P	On Time
Greenville	// UNITED	UA 7954	BD 4436	C20	5:28P	On Time
Harrisburg PA	🖉 UNITED	UA 7952	US 7492	C28	5:25P	On Time
Hartford-BDL	// UNITED	UA 312	US 6161	D21	5:22P	On Time
Houston	Continental	CO 3011		B25	2:35P	On Time
Houston	// UNITED	UA 965	US 6191	C9	5:22P	On Time
Huntsville AL	🖉 UNITED	UA 7343	BD 4442	A 4	4:50P	On Time
Indianapolis	🖉 UNITED	UA 7317	US 7150	A2	4:45P	On Time
Jacksonville	// UNITED	UA 7422	NH 7550	A2	12:15P	Now 3:10P
Jacksonville	🕖 UNITED	UA 7451	BD 4238	C28	4:45P	On Time
Johannesburg	SOUTH ARRIVAN	SA 208	UA 9818	B14	5:40P	On Time
Johnstown, PA	🖉 UNITED	UA 6937		A5	5:32P	On Time
Kansas City	🖉 UNITED	UA 7411	US 7902	A1	3:39P	On Time
Knoxville	🖉 UNITED	UA 7983	US 7406	A6	4:50P	On Time
Las Vegas		WN 3674		B50	4:15P	On Time



Source: http://wandertherainbow.com/wp-content/uploads/2010/12/ShanghaiPudongAirportFlightsBoard.jpg, http://commons.wikimedia.org/wiki/File:Departure_And_Arrival_Board_At_Dulles_Airport_(4128589658).jpg









Same time / different place: Technologies

- Remote interaction
- Video-Conferencing,
- •Real-time groupware
- •Messaging (Instant messaging, Email)
- •Virtual worlds
- Multi-User editors
- Shared Screen (vnc)



Same time / different place: Affordances

- Multi-user participation
- •Nonverbal cues
- Differing levels of fidelity (text, voice, avatar)



The Picturephone, 1964



A logical provision of relay's usephase percer-

Bell System introduces PICTUREPHONE service

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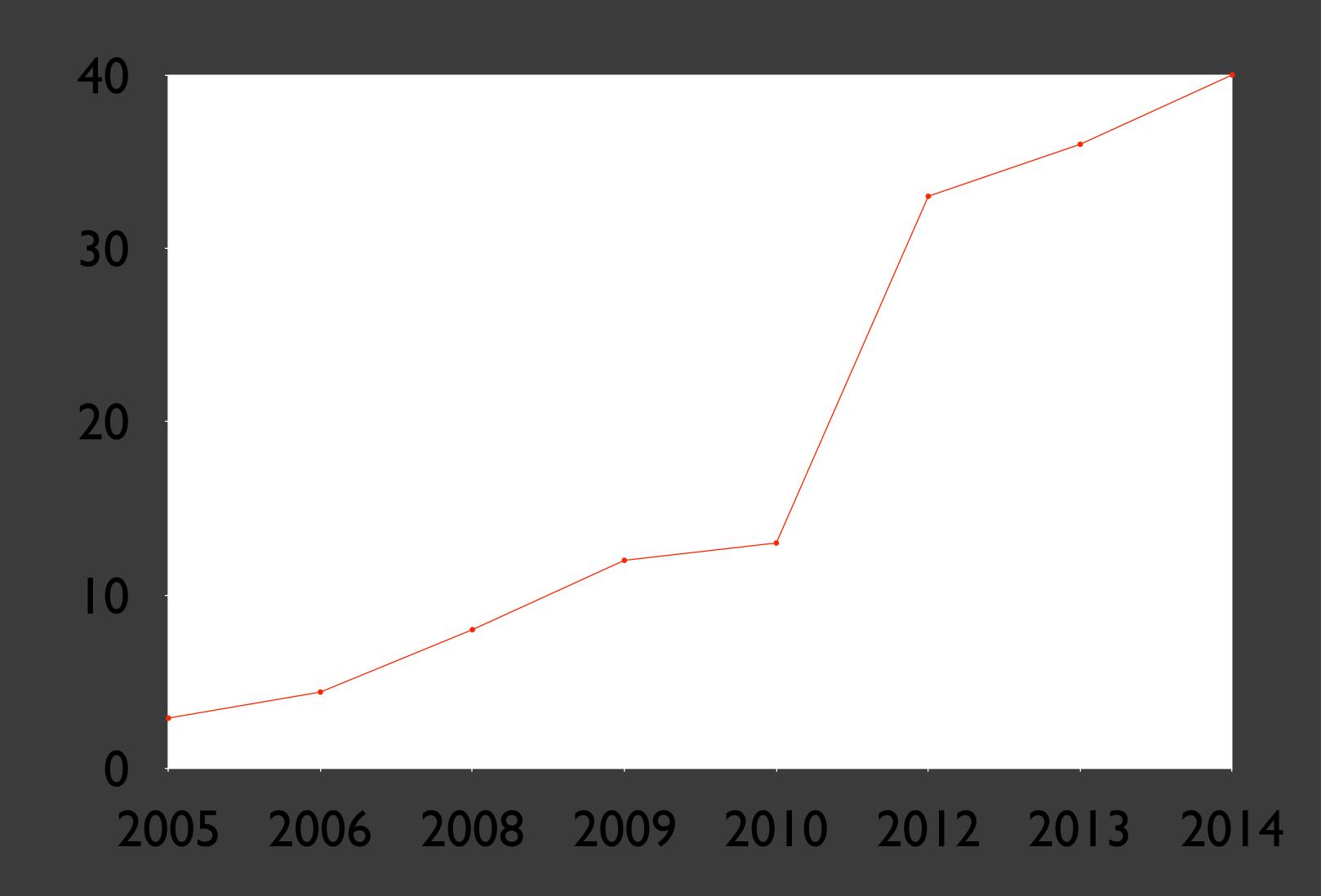


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Example: Skype



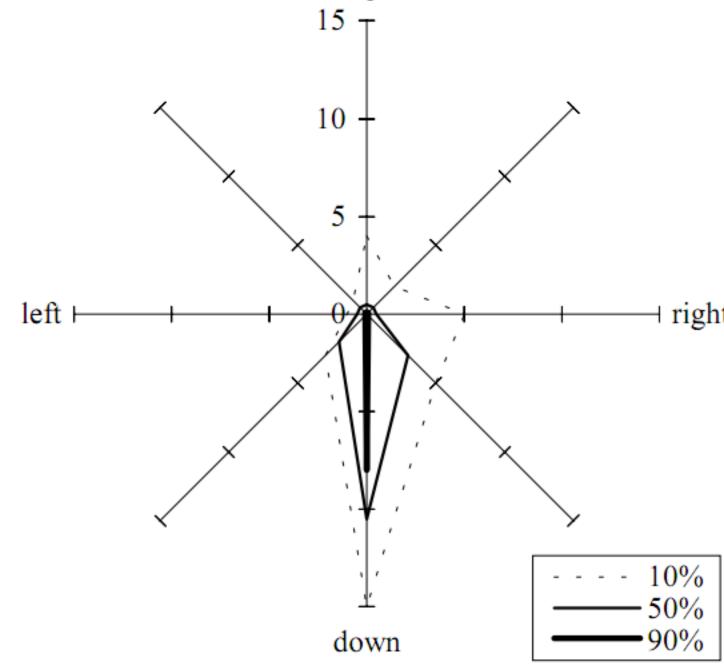
Source: Wikipedia.

Year	International call market sha
2005	2.9% ^[62]
2006	4.4% ^[62]
2008	8% ^[61]
2009	12% ^[60]
2010	13% ^[63]
2012	33% ^[64]
2013	36% ^[65]
2014	40% ^[66]



Gaze Para ax

Chen



•"we are an order of magnitude less sensitive to eye contact when people look below our eyes than when they look to the left, right, or above our eyes." - Milton

+ right

Source: http://www.hp.com/hpinfo/newsroom/press_kits/2008/halo/images/G7743001102007.jpg

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2 1





Always-On: Portholes and Media Spaces



Source: http://people.cs.vt.edu/~srh/Media%20Space%20Home_files/Media-Space-office-meeting.jpg



Calling While Driving

Different time / different place Social Networks, like Facebook Communication + Coordination

- •Wiki
- •Blogs
- •Workflow
- Version Control

 Shared participation over time Geographically world wide





Document Collaboration: Track Changes

Participants with low-bandwidth connections generally assumed the spectator role and often used the text chat feature in the Google Hangout to "speak" in the discussion. Speakers (usually the moderator) would notice the text, and speak it aloud to the other participants. Both speakers and spectators used text-chat to demonstrate active listening without interrupting the speaker via audio (for example, a student wrote, "Working in [company] must be really cool. Thanks for sharing :)").

A shared video channel forces a single conversation. Still, students sometimes used text-chat as a way for nondiscussion related talk, such as exchanging contact information or LinkedIn profiles.

STUDY 1: DO DISCUSSIONS HELP PERFORMANCE? It is not obvious that the benefits of peer discussions [6, 46]. would transfer to an online environment. In these environments, peers have vastly different backgrounds and no prior interaction with each other. Therefore, our first study measures the benefits of participation in online discussions. Later experiments measure how these benefits vary with geographic diversity in discussion groups.

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Hey, are you free on Thursday at 3?



Context makes social computing hard

Challenge: Disparity of Work and Benefit



Challenge: Disparity of Work and Benefit

Who does work and who benefits?

Groupware applications often require additional work from individuals who do not perceive a direct benefit from the use of the application

Inspired by J. Grudin, Groupware and Social Dynamics: Eight Challenges for Developers, CACM 1994



Example: How Workers Use Calendars

- Information is in your head not in the system
- Unscheduled time is when work gets done
- Different infrastructure
- Available depends on who's asking



Addressing the Challenges

- Information is in your
 head not in the system
- Unscheduled time is when work gets done
- Different infrastructure
- Available depends on who's asking

Doodle

🖈 Features 🛛 👑 Pricing Create account Sign i

★ NEW FEATURE: Schedule multi-day events like conferences, workshops or holiday trips. Learn more → _____

Doodle simplifies scheduling

The scheduling tool you'll actually use. Find a date for a meeting 2x faster

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Example: Google Calendar

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Other calendars	3pm		3p – 4p busy	3p – busy		3p – 4p busy	3:30p – busy	3p – bus	busy 3:	:15p	3:30p - 6	o p			
Add a coworker's calendar	4pm		4p – 5p busy			4p – 5p busy		3:45p – 4 busy	:45p		busy		– 5:15p		
Karen Scott	5pm		5p – busy	5p – busy								busy		-6p sy	
Alex	6pm														
Alice	7pm														

Integrating Calendar and Email

Search Mail Search the Web Show search options Create a filter	
	Title: When: Where: Who:
2:00 PM - 3:00 PM December 11, 2009 Location: Scott's office @ Stanford Scott, Fabulous. Thanks very much. We would like to meet you next Friday at 2:00. Right now things look good for us to come to the students' final presentations too. My colleague David and I look forward to seeing you next week. Thanks! Ame ★ Reply ★ Reply to all ★ Forward	The fo Subjec Organi Locatic Time:
	Invitee

HCI Study Design 2 Meeting	Your Agenda for Fri Jan 22, 2010
: Fri Jan 22 3:30pm – 4:30pm (PST)	12pm Lunch w/HCI Seminar Speaker
: 4th Floor Wallenberg, Union Pacific	2:05pm Carrie Armel
acholonu@gmail.com,	2:30pm Ranjitha, Juho, Pao, Salman, Bri
daniel.schwartz@stanford.edu, spdow@stanford.edu,	3:30pm HCI Study Design 2 Meeting
srk@cs.stanford.edu	3:30pm HCI Study Design 2 Meeting
Add to calendar »	8:45pm ragi dindial show
	view my calendar »

ollowing meeting has been modified:

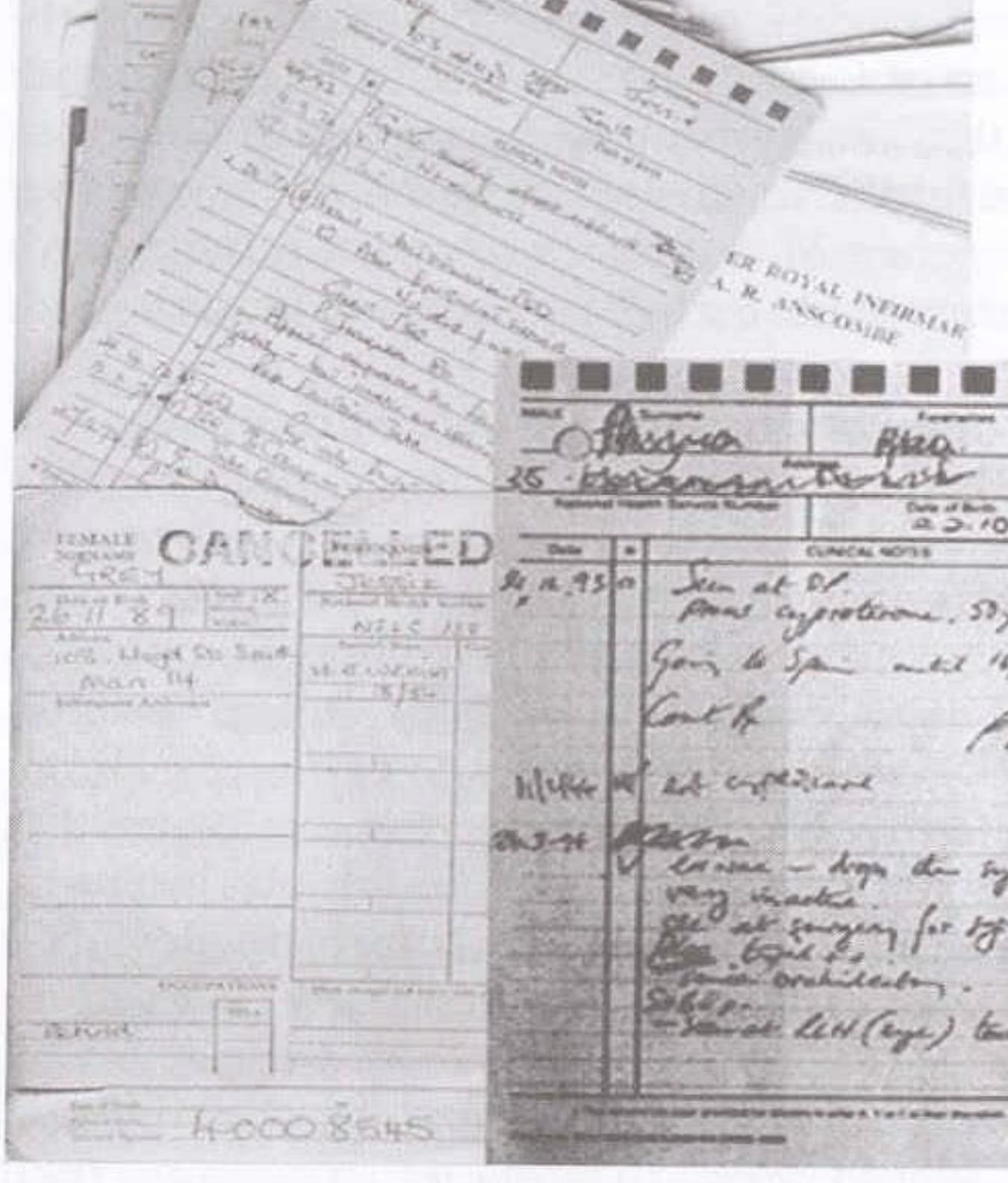
- ct: HCI Study Design 2 Meeting izer: "Ugochi Cynthia Acholonu" <<u>acholonu@stanford.edu</u>>
- ion: 4th Floor Wallenberg, Union Pacific [MODIFIED] Friday, January 22, 2010, 3:30:00 PM - 4:30:00 PM GMT -08:00 US/Canada Pacific

es: "Dan Schwartz" ; "Scott R Klemmer" ; "Steven Paul Dow" ; acholonu@gmail.com

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Challenge: Exception Handling

Groupware may not accommodate the wide range of exception handling and improvisation that characterizes much group activity



CLINICAL NOTES * 12-12-17 V I am bouch Souther const 3d - Severe Owlin it Burth of the L2 run 23.10 15 GENICAL 40/38 V lever - laghing Caperolatione, 503 bd. 14-14-53 18-6-21 Y Jonda C ho Tarran multil edit & Ste Constraint. os 11 193 (recounty discharged carp many white spirm The occus crockie chest ->Himshaprim CA 25-11.95 Y Now get hat fluch. Massac - drops the say orchickedor Sangery Jar Reconned due to em will settle Bandlad ?? ch -611.71 Chilly someth Coolan. 1. second marined back Gr DI. Clipton bo Bat 10 Your company long locate properties of particular in other 1, 7 and a find discussion THER RECORD IN THE PROPERTY OF THE RECORD SHITLE FOR HER. TH Paris (MIC)



Electronic Health Records

💐 Handy patients enterprise edition		
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Birth 5 January 2009 💌	Digestive auscultation	Rectal
Age: 8 month and 10 days Patient nb: 3 Appointments Forms Sheets	Normal abdomen noises	
Meeting (Doctor) O: Neurologic Full status (Doctor) O: Vascular Image: Status (Doctor) <	Digestive palpation	
Assistant O: Vascular Billing O: Cardiac Reports O: Respiratory Statistics O: Abdomen Exams Radiology SOAP Sum. T R-V T, P, PC Admission Agenda	Little pain on the right lower area	Page 1/1 Draw V
Meetings 2 month checkup 5 Mar 09 2m.0d 1 month checkup 5 Feb 09 1m.0d Respiration problem 22 Jan 09 17d 10 days chekup 13 Jan 09 8d Control for return at home 9 Jan 09 4d Birth 5 Jan 09 0d Diagnosis X New documents Abdomen palpat - 15 Sep 2009 Cardiac auscul - 15 Sep 2009	14	Esophagus Liver Biomach Color Pen 8 •
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source: <u>http://en.wikipedia.org/wiki/Electronic_health_record</u>

Paper Flight Strips

14:45:03

Image courtesy Wendy Mackay



"If technology is to provide an advantage, the correspondence to the real world must break down at some point." - Jonathan Grudin

CURRENT PRACTICE

NEW TECHNOLOGY

minimize this distance

How to build social computing that a world of extemporizers actually adopts

- Less structure beats more
- Twitter didn't start with hashtags
- Flexible lightweight tools are often more used than highly proscribed ones
- Paper is one of the most flexible tools we have

Final Week!

- •A10 due Thursday, March 16 11:59pm
- Poster should be vertical
- form posted on Piazza
- Time to show what you've done in 10 weeks!

•You will be demoing your app on a phone in studio this week •Final Presentations are Friday, March 17 3:30-7pm Presentations start 4pm SHARP so arrive early to set up

If you have a conflict, inform your TA and fill out the

Announcements

- •Classes to take next
 - •COGS 121
 - •COGS 160: Social Computing/IxD Startup
- •What types of jobs?
 - bridge/5-dos-and-donts-for-your-design-portfolio/
 - •UX designer, product management, user research
- •Where to meet people?
 - •Design.UCSD
 - •Design @ Large talks

•5 Dos and Don'ts of your Design Portfolio: designerfund.com/

Questions

Thank vou