

What makes for effective online communities?

	Same Time	Different Time	
Collocated (Same Place)			
Remote (Diff't Place)			

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'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	WUNITED	UA 7989	QR 5649	C26	5:30P	On Time
Daytona Beach	🛦 DELTA 👵	DL 1449		B76	4:06P	On Time
Denver	WUNITED	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	◆ SOUTHWEST	WN 2683		B50	5:40P	On Time
Detroit	nwa NORTHWEST	NW 3721		B72	4:45P	On Time
Detroit	#UNITED	UA 7348	US 7608	АЗ	5:09P	On Time
Frankfurt	UNITED	UA 916	LH 9051	D3	5:26P	On Time
Frankfurt	⊕ Lufthansa	LH 419	UA 8832	B49	5:50P	On Time
Frankfurt	⊕ Lufthansa	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	WUNITED	UA 312	US 6161	D21	5:22P	On Time
Houston	Continental	CO 3011		B25	2:35P	On Time
Houston	WUNITED	UA 965	US 6191	C9	5:22P	On Time
Huntsville AL	// UNITED	UA 7343	BD 4442	A4	4:50P	On Time
Indianapolis	WUNITED	UA 7317	US 7150	A2	4:45P	On Time
Jacksonville	WUNITED	UA 7422	NH 7550	A2	12:15P	Now 3:10P
Jacksonville	UNITED	UA 7451	BD 4238	C28	4:45P	On Time
Johannesburg	SOUTH AFRICAN	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	WUNITED	UA 7983	US 7406	A6	4:50P	On Time
Las Vegas	SOUTHWEST	WN 3674		B50	4:15P	On Time



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 retrission of foday's inhephane service.

Bell System introduces PICTUREPHONE service

from handy-type course. They work TR HENSING SHOWEN

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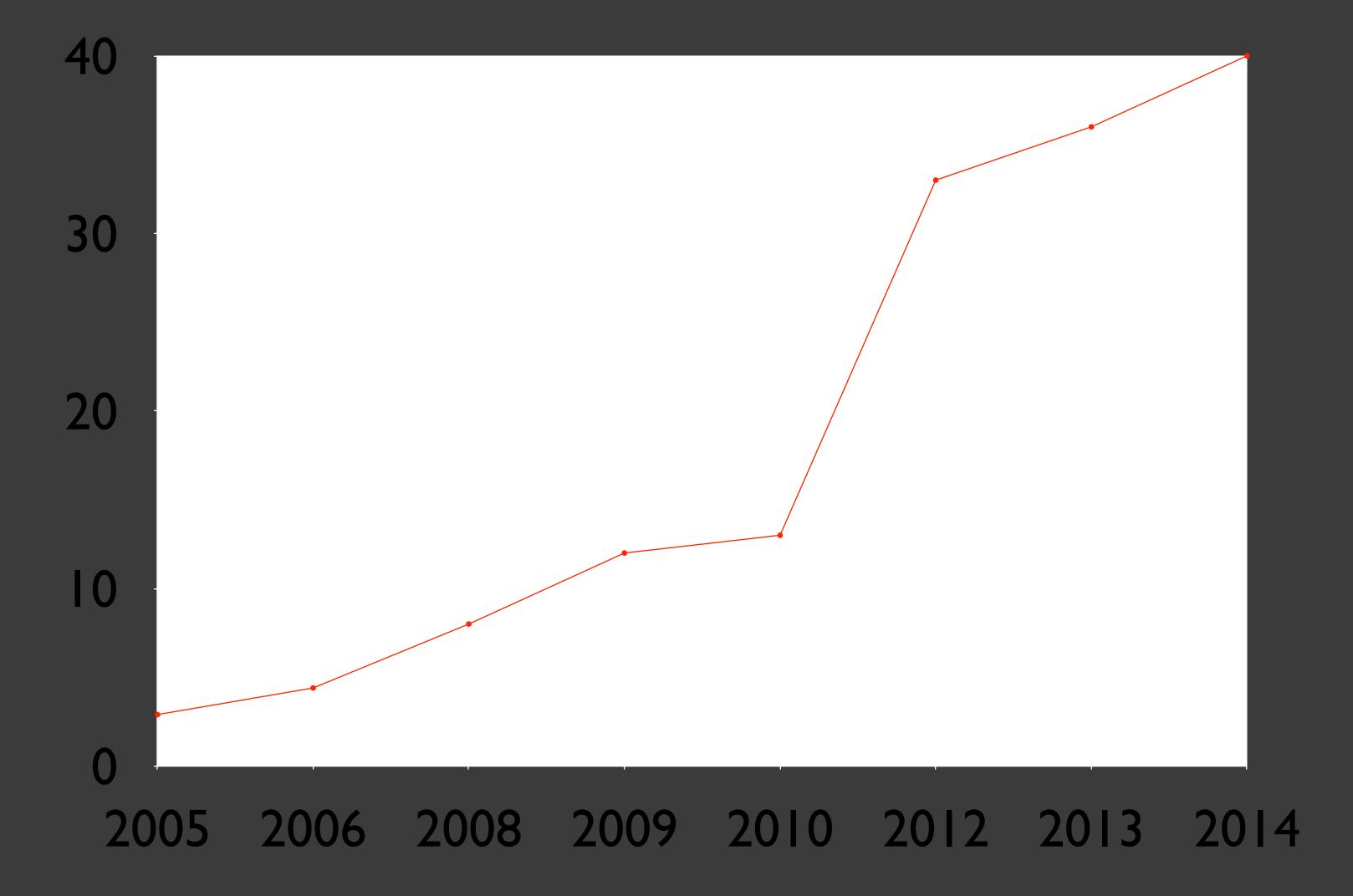
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Picturephone® installation showing Touch-Tone® control console.

Example: Skype



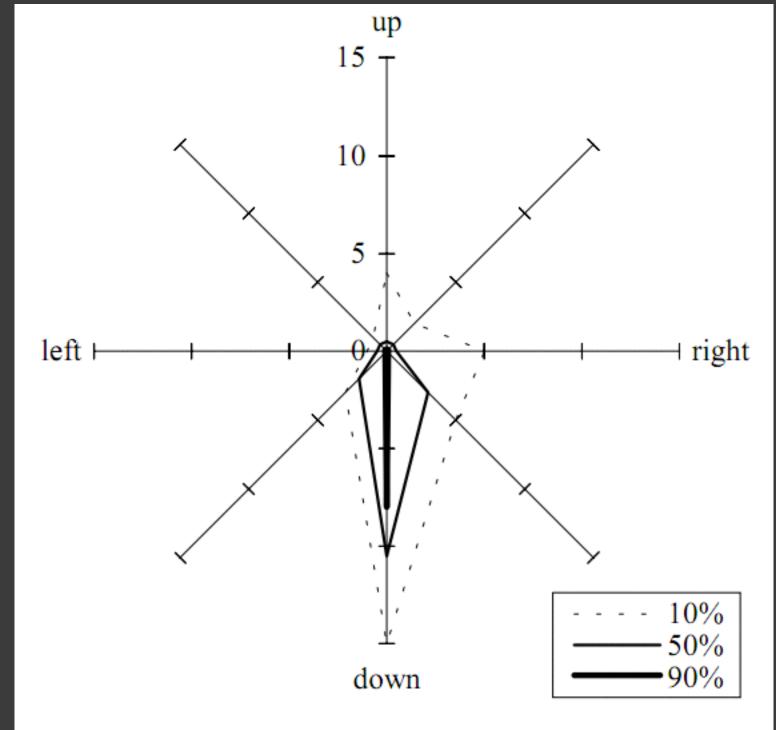
Year	International call market share
2005	2.9% ^[62]
2006	4.4% ^[62]
2008	8% ^[61]
2009	12% ^[60]
2010	13% ^[63]
2012	33% ^[64]
2013	36% ^[65]
2014	40% ^[66]

Source: Wikipedia.

Gaze Parallax

·"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

Chen





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 non-discussion 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.

