Group Work And Technology

Collaboration and designing interfaces

•Groupware and CSCW •Categories of interaction

<u>Designing Software And Technology To Support</u> <u>Group Processes</u>

- Groupware
- CSCW
- Categories of Interaction

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Categories Of Interactions: Real World		
	Same time	Different times
Same place	Traditional classroom setting	Refrigerator magnets, sticky notes
Different place	Telephone	Traditional mail system

<u>Categories Of Interactions: Computer World¹</u>		
	Same time	Different times
Same place	Wall displays, Video games (non- networked)	Group calendars
Different place	Instant messaging Online communities Video/Audio conferencing	Email, Newsgroups, Blogs











Same Place, Same Time: Benefits

(Nunamaker et al. 1991):

- Parallel communication can occur
- Anonymity of contributions
- The contributions of participants produce a permanent record of what occurred.
- The process structure provided by the approach helps focus the group on key issues and discourages digressions and unproductive behaviors.

Nunamaker, J.F., Dennis, A. R., Valacich, J.S., Douglas R. and George, J.F. *Electronic Meeting Systems to Support Group Work*. Communications of the ACM, 34(7) (July 1991), pp. 40 – 61.

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Different Place, Same Time: Location Awareness

• Where is everyone?

• This issue was easily handled with the traditional WYSIWIS systems – everyone has to be in the same location.









Same Place, Different Time (3)

A group of people are working together on a project



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Same Place, Different Time (5)

The absent person comes back





Wav file from the Simpson $\ensuremath{\mathbb{C}}$ Fox

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Different Place, Different Time (2)

- The challenges of tracking changes may be even more daunting (i.e., face-to-face communication may not be an option in this case).
- Options vary from sparse forms of communication (e.g., email) to online communities.

Different Time, Different Place (3)

- Newsgroups
- •Listservers
- Discussion boards
- •Blogs
- •Wikis
- Online communities

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Different Time, Different Place (4)

Some issues

- How to represent and organize information
- How to prevent information overload

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You Should Now Know

- What is groupware
- What is CSCW
- How are groupware and CSCW related
- What are the categories of interaction
- What are some of the issues for each category
- How were some of those issues face by groupware