

Social Interaction

IF3151 Human Computer Interaction

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Overview

1

What is social interaction?

2

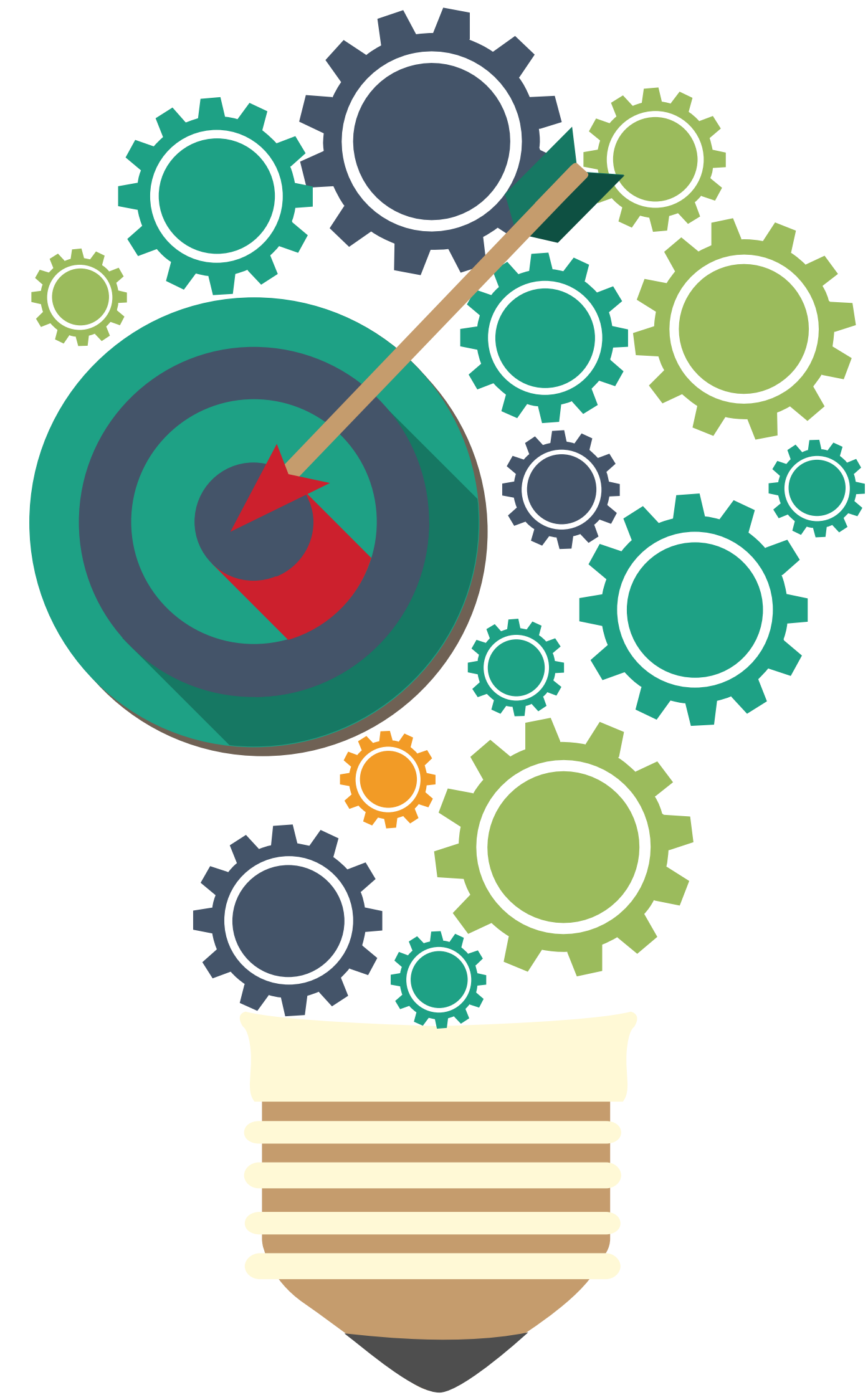
What is social presence?

3

Overview of technologies

4

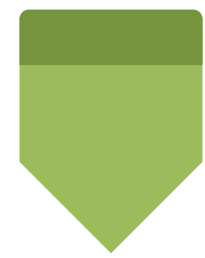
Social engagement



Social Interaction



We live together, work together, play together, talk to each other, and socialize



Social technologies developed to enable us to persist in being social when apart

- They differ in how they support us
- Some encourage social interactions (for example, family games with Alexa)
- Others have a negative impact on everyday conversations (Turkle, 2015)

Are we spending too much time in our own digital bubbles?



Conversational mechanisms

Various mechanisms and 'rules' are followed when holding a conversation face to face, such as mutual greetings

A: Hi there

B: Hi!

C: Hi

A: All right?

C: Good, how's it going?

A: Fine, how are you?

C: OK

B: So-so. How's life treating you?

Conversational rules

Sacks et al. (1978) conversation analysis of conversations propose three basic rules



Rule 1: The current speaker chooses the next speaker by asking opinion, question, or request



Rule 2: Another person decides to start speaking



Rule 3: The current speaker continues talking

More conversational rules

Turn-taking used to coordinate conversation

A: Shall we meet at 8:00?

B: Um, can we meet a bit later?

A: Shall we meet at 8:00?

B: Wow, look at him?

A: Yes, what a funny hairdo!

B: Um, can we meet a bit later?

Back channeling to signal to continue and following

- Uh-uh, umm, ahh

Further conversational rules

Farewell rituals

- Bye then, see you, yeah bye, see you later....

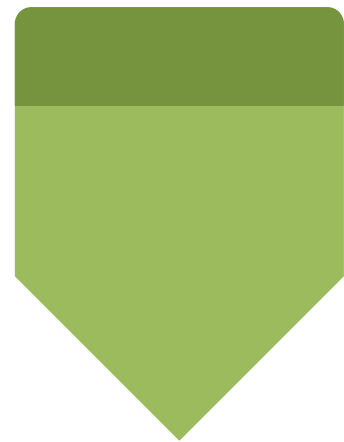
Implicit and explicit cues

- For instance, looking at watch or fidgeting with coat and bags
- Explicitly saying, “Oh dear, look at the time, I must go, I’m running late...”

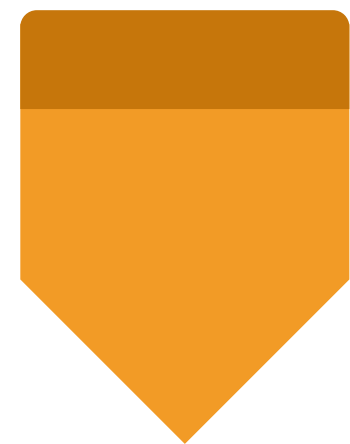
What happens in online conversations?



Do the same conversational rules apply?



Are there different kinds of breakdowns?



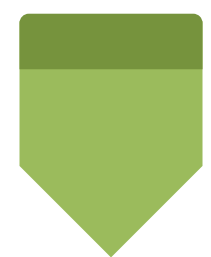
How do people repair them for:

- Email?
- Chat?
- Texting?
- Video conferencing software?

Telepresence and Social Presence



Telepresence refers to one party being present with another party, who is present in a physical space, such as a meeting room



Social presence refers to the feeling of being there with a real person when in virtual reality

Telepresence robots



Susan Lechelt at ACM CHI



Enable people to attend events who could not do so, such as by controlling their robot remotely

- In places such as schools, conferences, and museums
- Early example: Beam+
- Often dressed up to appear like the person to others at the event
- Positive experience of being there

Social presences



Facebook's vision of socializing in a 3D world using VR

Two avatars talking at a virtual table

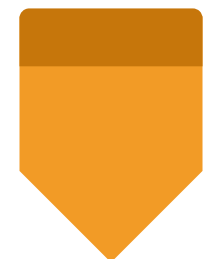
Users experience each other through donning VR headsets

Coordination mechanisms



When a group of people act or interact together, they need to coordinate themselves




- For example, when playing football or navigating a ship



To do so, they use:

- Verbal and non-verbal communication
- Schedules, rules, and conventions
- Shared external representations

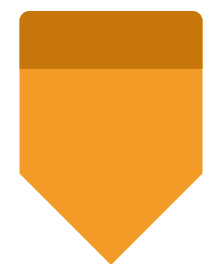
Coordination mechanisms (face to face)

-  Talk is central
-  Non-verbal also used to emphasize and as a substitute
 - For instance, nods, shakes, winks, glances, gestures, and hand-raising
-  Formal meetings
 - Explicit structures such as agendas, memos, and minutes are employed to coordinate the activity

Shareable Interfaces



Designed to capitalize on existing forms of coordination and awareness mechanisms



Several studies investigating whether they help people to work together better, have found:

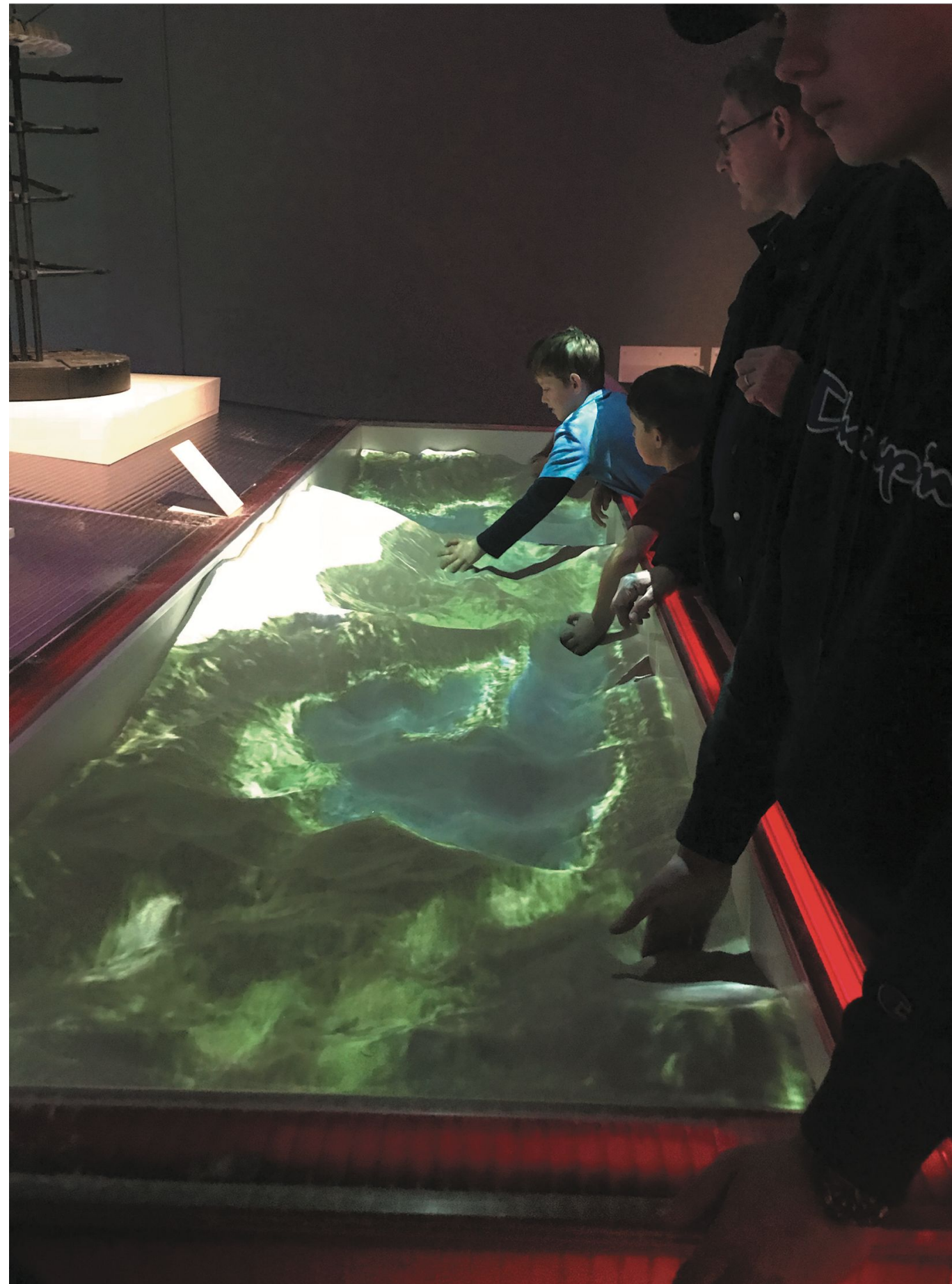
- More equitable participation
- More natural to work around
- More comfortable sitting around a table than standing in front of a display

Some examples



Sococo floor plan of a virtual office: who is where and who meeting with whom

Some examples



Playing together in same space using AR

- ❑ Visitors using an AR sandbox at the V and A
- ❑ Visitors sculpt landscapes out of sand
- ❑ System reacts with changing superimposed digital colored landscape
- ❑ Enables creative forms of collaboration

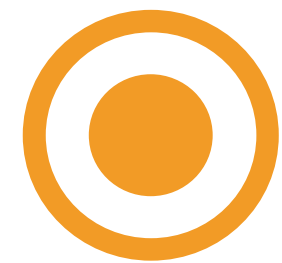
Social Engagement



- Refers to participation in activities of a social group
- Social exchange where people give or receive something from others



- Voluntary, unpaid and often altruistic (in the sense of sharing and doing good for others)

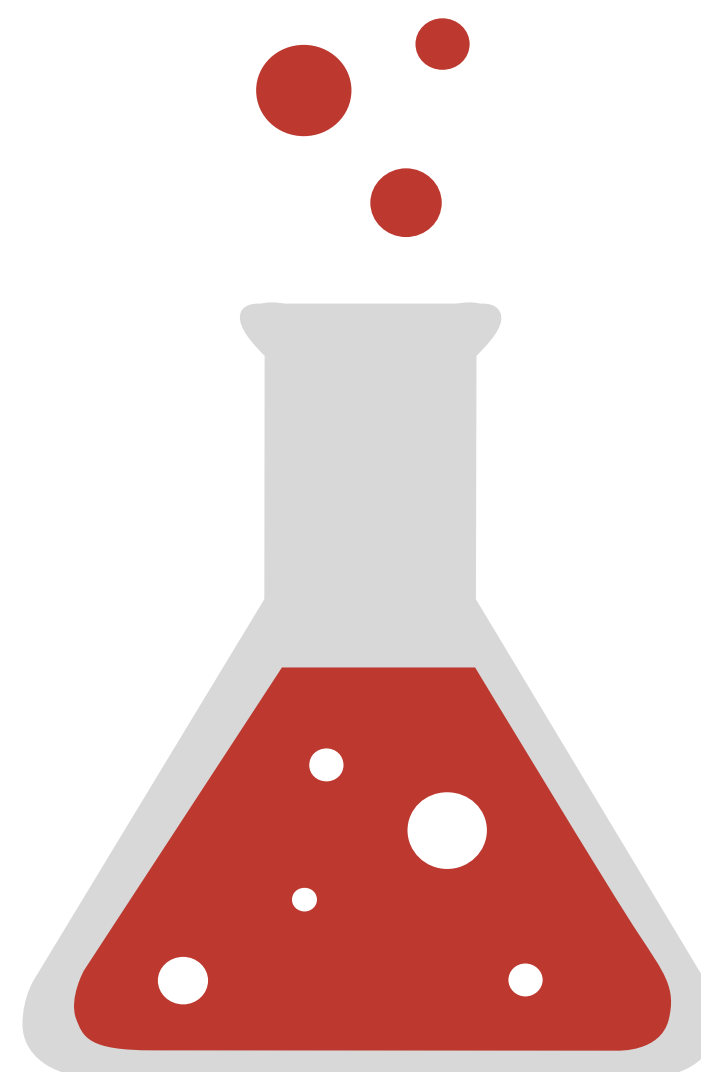


- Websites often used as hub to connect people
- Retweeting is a powerful way of connecting millions of people

Retweeting goes viral

- ❑ The epic Twitter battle between Ellen DeGeneres and Carter Wilkerson
- ❑ Millions retweeted in the space of hours
- ❑ Connected millions of people for a fun cause
- ❑ Many people found it amusing to join in and watch the numbers grow





*Creativity is the key to success
in the great education*

Terima Kasih
