CS 6474/CS 4803 Social Computing: Social Computing Theories: Social Capital and Social Influence

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Week 5 | February 9, 2022

Proposal Presentation Specs

- Email the slides to the TA and me by 11:59pm ET the night before your scheduled presentation.
 - PDF format only
- No more than <u>10 slides</u>
- Structure:
 - What is the problem
 - Why is it important
 - What has been done so far
 - Are there any/what are the gaps in this prior research?
 - How does your project close these gaps/extend current state of the art

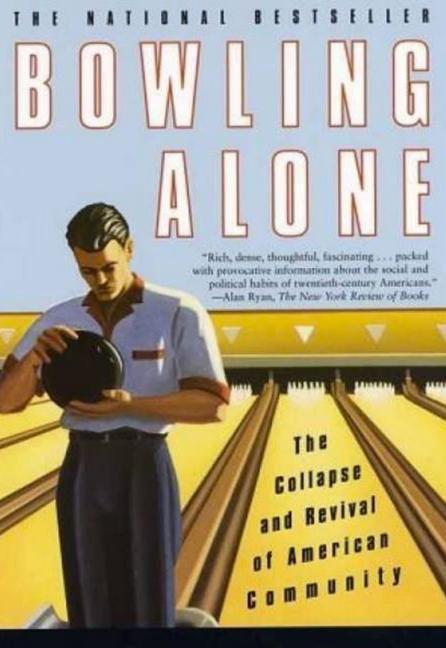
Social Capital Focuses on:

- Who knows Whom
- The Character of these Networks
- The Strength of our Ties
- Levels of Trust
- Levels of Reciprocity

Social capital broadly refers to the resources accumulated through the relationships among people (Coleman, 1988).

Bourdieu and Wacquant (1992) define social capital as "the sum of the resources, actual or virtual, that accrue to an individual or a group by virtue of possessing a durable network of more or less institutionalized relationships of mutual acquaintance and recognition" (p. 14).

Social capital is defined as "social networks and the associated norms of reciprocity and trust that arise from those networks" (Putnam, 2000)



Robert D. Putnam



Rise and Decline of League Bowling

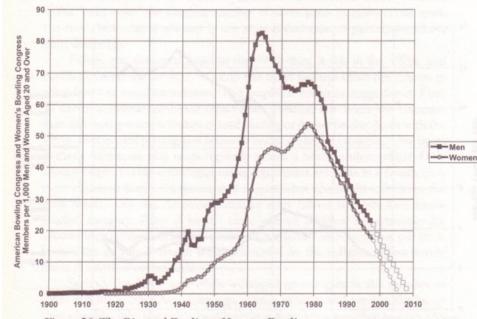


Figure 26: The Rise and Decline of League Bowling

Bonding and bridging social capital (Putnam)

I. Bonding (Putnam)

- Generated by strong ties. Considered essential in every society. Concerns over loss of bonding social capital prevalent in related scholarship (see also our earlier notes on communities)
- Bonging social capital is the effect of maintaining strong ties

2. Bridging (Putnam)

- Weak ties at play; 'bridges' more essential than other weak ties. Complementing or making up for loss of strong ties and increasing in importance in modern urban societies and CMC
- Bridging social capital is the effect of maintaining bridges

Putnam's book was controversial – he disregarded newer organizations and forms of social capital Critics like sociologist Claude Fischer said that "Putnam neglects the emergence of new forms of supportive organizations on and off the Internet" Why is it important or relevant to study social capital in this class?

The Benefits of Facebook "Friends:" Social Capital and College Students' Use of Online SNS

Dimensions of social capital

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Maintained (Ellison et al.)

 Social capital salvaged by CMC after physical disconnection from offline social network (implies some social capital lost by physical disconnection, e.g., move to another place for work or study) H1: Intensity of Facebook use will be positively associated with individuals' perceived bridging social capital.

H2: Intensity of Facebook use will be positively associated with individuals' perceived bonding social capital.

H₃a: The relationship between intensity of Facebook use and bridging social capital will vary depending on the degree of a person's self esteem. H₃b: The relationship between intensity of Facebook use and bridging social capital will vary depending on the degree of a person's satisfaction with life.

H4a: The relationship between intensity of Facebook use and bonding social capital will vary depending on the degree of a person's self esteem. H4b: The relationship between intensity of Facebook use and bonding social capital will vary depending on the degree of a person's satisfaction with life.

Ellison et al. use college students as participants. How could this attribute have affected the findings? E.g., there's a strong case of college students wanting to maintain social capital with friends from high school. But how does this generalize to other populations or settings?

Class Activity 1

Ellison et al. focus on the role of Facebook in bridging and bonding social capital. Do the findings extend to other platforms as well? Give examples of bonding/bridging social capital on a social media platform (Instagram), an online forum (Reddit), and an anonymous / ephemeral site (Snapchat).

Thoughts and additional findings

- Main target audience for Facebook profile seem to be old friends and then current friends and acquaintances from immediate environment; but strongest results of study are with respect to the effects of weak ties (bridging social capital)
 - Possible interpretation: users maintain FB pages for their friends and closer circle of acquaintances but FB is actually most helpful in the management of weak ties
- FB more valuable in bridging for users with low self-esteem and/or dissatisfaction with professional and/or social environment
 - Possible interpretation: CMC helps users overcome social or psychological barriers to communication



ELEMENTS

HOW FACEBOOK MAKES US UNHAPPY



By Maria Konnikova September 10, 2013



No one joins Facebook to be sad and lonely. But a <u>new study</u> from the University of Michigan psychologist Ethan Kross argues that that's exactly how it makes us feel. Over two weeks, Kross and his colleagues sent text messages to eighty-two Ann Arbor residents five times per day. The researchers wanted to

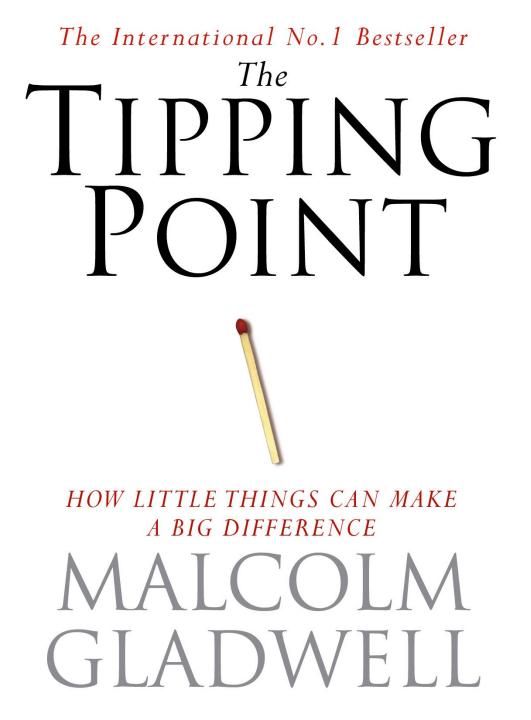


Ellison et al. also found that Facebook usage was found to interact with measures of psychological well-being. How does it contrast with the perception of today that Facebook makes people depressed? know a few things: how their subjects felt overall, how worried and lonely they were, how much they had used Facebook, and how often they had had direct interaction with others since the previous text message. Kross found that the more people used Facebook in the time between the two texts, the less happy they felt—and the more their overall satisfaction declined from the beginning of the study until its end. The data, he argues, shows that Facebook was making them unhappy.

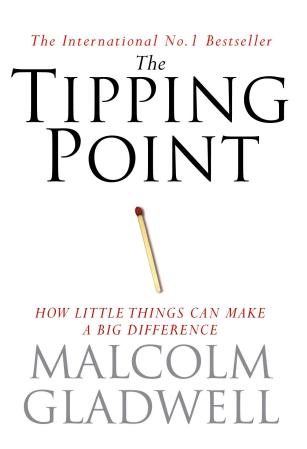
Research into the alienating nature of the Internet—and Facebook in particular —supports Kross's conclusion. <u>In 1998</u>, Robert Kraut, a researcher at Carnegie Mellon University, found that the more people used the Web, the lonelier and more depressed they felt. After people went online for the first time, their sense of happiness and social connectedness dropped, over one to two years, as a function of how often they used the Internet. Does algorithmic design impact how people derive benefits from social capital? E.g., curation of items on the News Feed

Social influence – a critical construct of social networks

Why are certain things more contagious than others? Why are certain things more popular or catchy? How does the social network facilitate such contagion?



What is the Tipping Point?



That magic moment when an idea, trend or social behavior crosses, tips and spreads like wildfire.

Is she worth \$10,000 per tweet? Kim Kardashian earns big money using her Twitter account to advertise to her 2million fans

By DAILY MAIL REPORTER UPDATED: 11:16 EDT, 24 December 2009



Some might question her apparent celebrity status, however Kim Kardashian certainly seems to have acquired some pulling power.

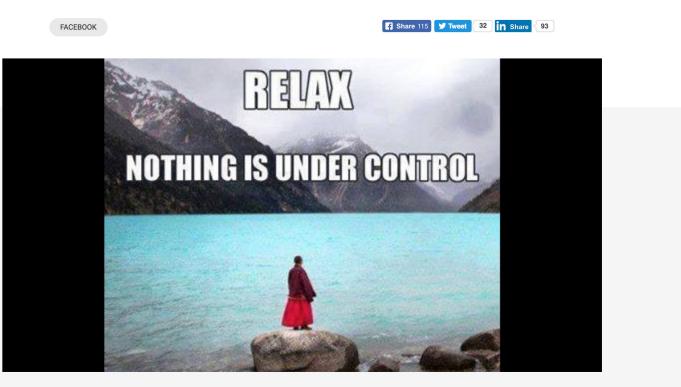
According to a report out this week, the U.S. socialite allegedly commands up to \$10,000 (£6,300) for every tweet she posts on her Twitter account as part of her contract with in-stream advertising company Ad.ly.

Kim, 29, is the highest earner on the company's books and the most popular on their roster of celebrity tweeters.



BACK TO BLOG

Your Facebook Posts Will Probably Go Viral if You Follow These 5 Steps





ABOUT THE AUTHOR
Aaron Lee

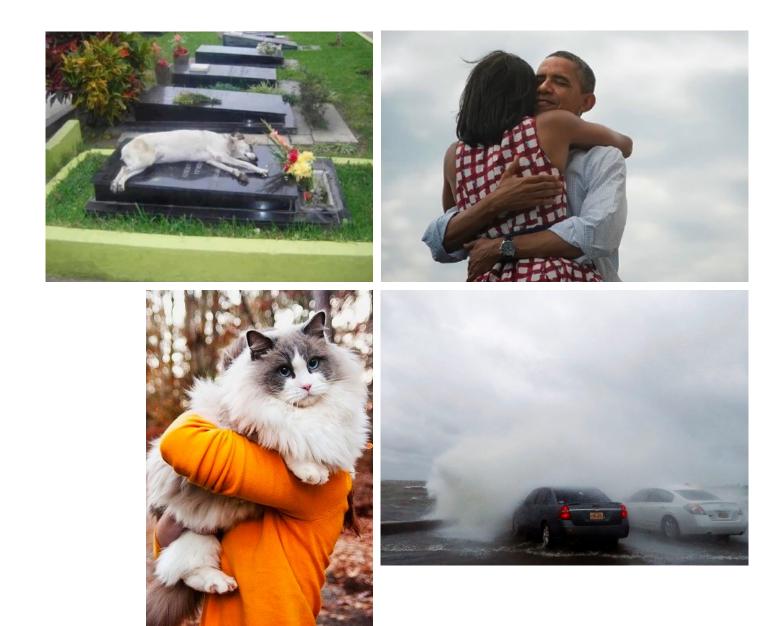
Aaron Lee is the Founder of AskAaronLee.com & ShortofHeight.com, a fashion blog that shares style for short men. Follow him on Twitter at @askaaronlee

Do you want your Facebook posts to go viral?

Of course you do.

Who wouldn't want to dramatically increase the reach of their posts?!

QUIZ: Which of these Facebook photos went viral?



Everyone's an Influencer: Quantifying Influence on Twitter

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FAST@MPANY

Is the Tipping Point Toast?

Marketers spend a billion dollars a year targeting influentials. Duncan Watts says they're wasting their money.

BY CLIVE THOMPSON LONG READ

Don't get Duncan Watts started on the Hush Puppies. "Oh, God," he groans when the subject comes up. "Not them." The Hush Puppies in question are the ones that kick off *The Tipping Point*, Malcolm Gladwell's best-seller about how trends work. As Gladwell tells it, the fuzzy footwear was a dying brand by late 1994–until a few New York hipsters brought it back from the brink. Other fashionistas followed suit, whereupon the cool kids copied them, the less-cool kids copied them, and so on, until, voilà! Within two years, sales of Hush Puppies had exploded by a stunning 5,000%, without a penny spent on advertising. All because, as Gladwell puts it, a tiny number of superinfluential types ("Twenty? Fifty? One hundred–at the most?") began wearing the shoes.

• MORE LIKE THIS

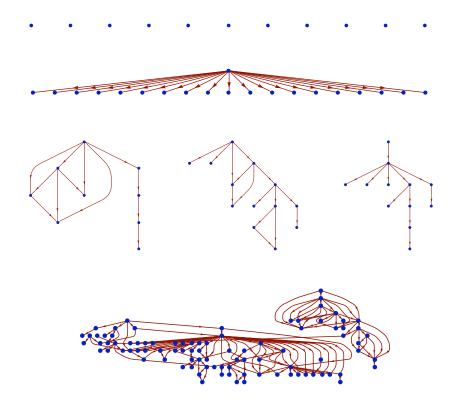
Pittsburgh is ready for takeoff

Tata Harper, cofounder and co-CEO of Tata Harper, shares her media diet

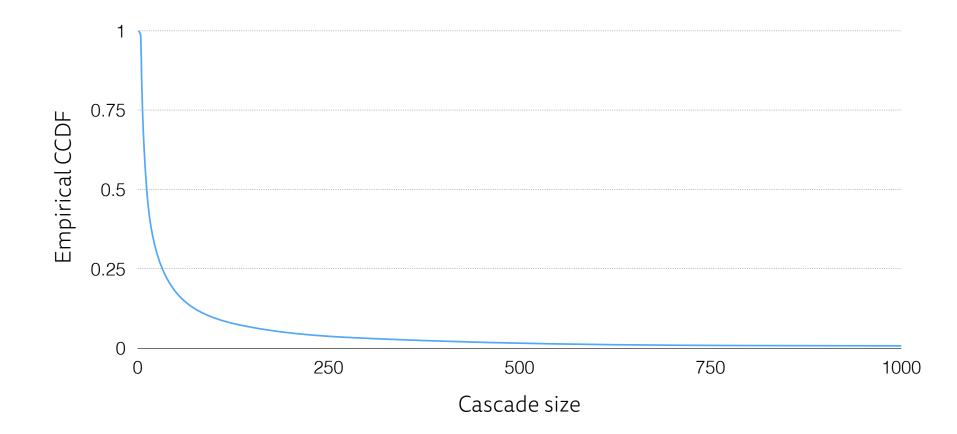
The song that Ceremonia founder Babba Rivera plays for a mellow morning

Summary

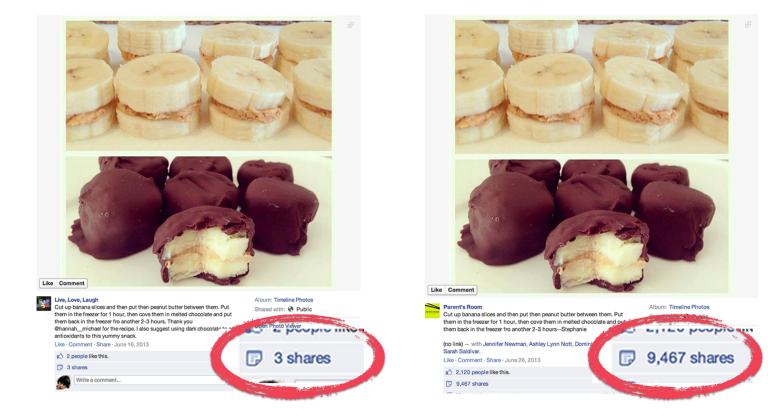
- Diffusion of URLs on Twitter
 - Easy to be traced back to the originating user through the follower graph



Difficulty #1 Large cascades are rare



Difficulty #2 Same content, different popularity



What intuition may explain why large number of followers does not necessarily imply greater influence?