## WikipediA

# Social media

**Social media** are interactive computer-mediated technologies that facilitate the creation or <u>sharing of information</u>, ideas, career interests and other forms of expression via <u>virtual communities</u> and networks. <sup>[1][2]</sup> The variety of stand-alone and built-in social media services currently available introduces challenges of definition; however, there are some common features: <sup>[2]</sup>

- 1. Social media are interactive Web 2.0 Internet-based applications. [2][3]
- 2. <u>User-generated content</u> such as text posts or comments, <u>digital photos</u> or <u>videos</u>, and data generated through all online interactions, is the lifeblood of social media. [2][3]
- 3. Users create service-specific profiles and identities for the website or <u>app</u> that are designed and maintained by the social media organization.<sup>[2][4]</sup>
- 4. Social media facilitate the development of online social networks by connecting a user's profile with those of other individuals or groups. [2][4]

Users usually access social media services via web-based apps on desktops and laptops, or download services that offer social media functionality to their mobile devices (e.g., smartphones and tablets). As users engage with these electronic services, they create highly interactive platforms through which individuals, communities, and organizations can share, co-create, discuss, participate and modify usergenerated content or self-curated content posted online. Networks formed through social media change the way groups of people interact and communicate or stand with the votes. They "introduce substantial and pervasive changes to communication between organizations, communities, and individuals."[1] These changes are the focus of the emerging fields of technoself studies. Social media differ from paperbased media (e.g., magazines and newspapers) and traditional electronic media such as TV broadcasting, Radio broadcasting in many ways, including quality, [5] reach, frequency, interactivity, usability, immediacy, and performance. Social media outlets operate in a dialogic transmission system (many sources to many receivers).<sup>[6]</sup> This is in contrast to traditional media which operates under a mono-logic transmission model (one source to many receivers), such as a newspaper which is delivered to many subscribers, or a radio station which broadcasts the same programs to an entire city. Some of the most popular social media websites, with over 100 million registered users, include Facebook (and its associated Facebook Messenger), TikTok, WeChat, Instagram, QZone, Weibo, Twitter, Tumblr, Baidu Tieba, LinkedIn and VK. Other popular platforms that are sometimes referred to as social media services (differing on interpretation) include YouTube, QQ, Quora, Telegram, WhatsApp, LINE, Snapchat, Pinterest, Viber, Reddit, Discord and more.

Observers have noted a wide range of positive and negative impacts of social media use. Social media can help to improve an individual's sense of connectedness with real or <u>online</u> communities and can be an effective communication (or <u>marketing</u>) tool for corporations, entrepreneurs, non-profit organizations, advocacy groups, political parties, and governments.

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# History



Front panel of the 1969-era ARPANET Interface Message Processor.



IMP log for the first message sent over the Internet, using ARPANET.

Social media may have roots in the 1840s introduction of the telegraph, which connected the United States.<sup>[7]</sup> The PLATO system launched in 1960, which was developed at the University of Illinois and subsequently commercially marketed by Control Data Corporation, offered early forms of social media features with 1973era innovations such as Notes, PLATO's message-forum application; TERM-talk, its instant-messaging feature; Talkomatic, perhaps the first online chat room; News Report, a crowd-sourced online newspaper and blog; and Access Lists, enabling the owner of a note file or other application to limit access to a certain set of users, for example, only friends, classmates, or co-workers.

ARPANET, which first came online in 1967, had by the late 1970s developed a rich cultural exchange of non-government/business ideas and communication, as evidenced by the network etiquette (or "netiquette") described in a 1982 handbook on computing at MIT's Artificial Intelligence Laboratory. [8] ARPANET evolved into the Internet following the publication of the first Transmission Control Protocol (TCP) specification, RFC 675 (https://tools.ietf.org/html/rf c675) (Specification of Internet Transmission Control Program), written by Vint Cerf, Yogen Dalal and Carl Sunshine in 1974. [9] This became the foundation of Usenet, conceived by Tom Truscott and Jim Ellis in 1979 at the University of North Carolina at Chapel Hill

and Duke University, and established in 1980.

A precursor of the electronic bulletin board system (BBS), known as Community Memory, had already appeared by 1973. True electronic bulletin board systems arrived with the Computer Bulletin Board System in Chicago, which first came online on February 16, 1978. Before long, most major cities had more than one BBS running on TRS-80, Apple II, Atari, IBM PC, Commodore 64, Sinclair, and similar personal computers. The IBM PC was introduced in 1981, and subsequent models of both Mac computers and PCs were used throughout the 1980s. Multiple modems, followed by specialized telecommunication hardware, allowed many users to be online simultaneously. Compuserve, Prodigy and AOL were three of the largest BBS companies and were the first to migrate to the Internet in the 1990s. Between the mid-1980s and the mid-1990s, BBSes numbered in the tens of thousands in North America alone. [10] Message forums (a specific structure of social media) arose with the BBS phenomenon throughout the 1980s and early 1990s. When the World Wide Web (WWW, or "the web") was added to the Internet in the mid-1990s, message forums migrated to the web, becoming Internet forums, primarily due to cheaper perperson access as well as the ability to handle far more people simultaneously than telco modem banks.

Digital imaging and semiconductor image sensor technology facilitated the development and rise of social media. Advances in metal-oxide-semiconductor (MOS) semiconductor device fabrication, reaching smaller micron and then sub-micron levels during the 1980s–1990s, led to the development of the NMOS (n-type MOS) active-pixel sensor (APS) at Olympus in 1985, and then the complementary MOS (CMOS) active-pixel sensor (CMOS sensor) at NASA's Jet Propulsion Laboratory (JPL) in 1993. CMOS sensors enabled the mass proliferation of digital cameras and camera phones, which bolstered the rise of social media.

An important feature of social media is <u>digital media data compression</u>, [15][16] due to the impractically high <u>memory</u> and <u>bandwidth</u> requirements of uncompressed media. [17] The most important compression algorithm is the discrete cosine transform (DCT), [17][18] a lossy compression technique that was first proposed by <u>Nasir Ahmed in 1972. [19] DCT</u>-based compression standards include the <u>H.26x and MPEG video coding standards introduced from 1988 onwards, [18] and the JPEG image compression standard introduced in 1992. [20][15] JPEG was largely responsible for the proliferation of <u>digital images and digital photos</u> which lie at the heart of social media, [15] and the MPEG standards did the same for <u>digital video content</u> on social media. [16] The JPEG image format is used more than a billion times on social networks every day, as of 2014. [21][22]</u>

GeoCities was one of the World Wide Web's earliest social networking websites, appearing in November 1994, followed by Classmates in December 1995 and SixDegrees in May 1997. According to CBS news, SixDegrees is "widely considered to be the very first social networking site", as it included "profiles, friends lists and school affiliations" that could be used by registered users. Open Diary was launched in October 1998; LiveJournal in April 1999; Ryze in October 2001; Friendster in March 2003; the corporate and job-oriented site LinkedIn in May 2003; his in June



SixDegrees, launched in 1997, is often regarded as the first social media site.

2003; MySpace in August 2003; Orkut in January 2004; Facebook in February 2004; YouTube in February 2005; Yahoo! 360° in March 2005; Bebo in July 2005; the text-based service Twitter, in which posts, called "tweets", were limited to 140 characters, in July 2006; Tumblr in February 2007; and Google+ in July 2011. [24][25][26]

# **Definition and classification**

The variety of evolving stand-alone and built-in social media services makes it challenging to define them.<sup>[2]</sup> However, marketing and social media experts broadly agree that social media includes the following 13 types of social media:<sup>[27]</sup>

- blogs,
- business networks,
- collaborative projects,
- enterprise social networks,
- forums,
- microblogs,
- photo sharing,
- products/services review,
- social bookmarking,
- social gaming,

- social networks,
- video sharing, and
- virtual worlds.<sup>[27]</sup>

The idea that social media are defined simply by their ability to bring people together has been seen as too broad, as this would suggest that fundamentally different technologies like the <u>telegraph</u> and <u>telephone</u> are also social media.<sup>[28]</sup> The terminology is unclear, with some early researchers referring to social media as <u>social networks</u> or <u>social networking services</u> in the mid 2000s.<sup>[4]</sup> A more recent paper from 2015<sup>[2]</sup> reviewed the prominent literature in the area and identified four common features unique to then-current social media services:

- 1. Social media are Web 2.0 Internet-based applications. [2][3]
- 2. User-generated content (UGC) is the lifeblood of the social media organism. [2][3]
- 3. Users create service-specific profiles for the site or app that are designed and maintained by the social media organization. [2][4]
- 4. Social media facilitate the development of online social networks by connecting a user's profile with those of other individuals or groups. [2][4]

In 2019, <u>Merriam-Webster</u> defined "social media" as "forms of electronic communication (such as websites for social networking and microblogging) through which users create online communities to share information, ideas, personal messages, and other content (such as videos)"<sup>[29]</sup>

The development of social media started off with simple platforms such as sixdegrees.com.<sup>[30]</sup> Unlike instant messaging clients, such as ICQ and AOL's AIM, or chat clients like IRC, iChat or Chat Television, sixdegrees.com was the first online business that was created for real people, using their real names. The first social networks were short-lived, however, because their users lost interest. The Social Network Revolution has led to the rise of networking sites. Research<sup>[31]</sup> shows that the audience spends 22% of their time on social networks, thus proving how popular social media platforms have become. This increase is because of the widespread daily use of smartphones.<sup>[32]</sup> Social media are used to document memories, learn about and explore things, advertise oneself and form friendships as well as the growth of ideas from the creation of blogs, podcasts, videos, and gaming sites. [33] Networked individuals create, edit, and manage content in collaboration with other networked individuals. This way they contribute to expanding knowledge. Wikis are examples of collaborative content creation.

	Corporate function					
Type of social media	R&D	Marketing	Customer	Sales	HR	Organisation
Blogs	()	0	()	Juics		Organisación
Business networks					•	•
Collaborative projects	•					
Enterprise social networks	•				•	•
Forums	0	•	•			
Microblogs		•	•		•	
Photo sharing		•				
Products/services review	•	•		•		
Social bookmarking		•				
Social gaming		•				
Social networks	•	•	0		•	•
Video sharing		•	•			
Virtual worlds	()	•		()		

Classification of social media and overview of how important different types of social media (e.g. blogs) are for each of a company's operational functions (e.g. marketing)<sup>[27]</sup>

#### Mobile social media

Mobile social media refer to the use of social media on mobile devices such as <u>smartphones</u> and <u>tablet</u> computers. Mobile social media are a useful application of <u>mobile marketing</u> because the creation, exchange, and circulation of user-generated content can assist companies with marketing research, communication, and relationship development. Mobile social media differ from others because they incorporate the current location of the user (location-sensitivity) or the time delay between sending and receiving messages (time-sensitivity). According to <u>Andreas Kaplan</u>, mobile social media applications can be differentiated among four types: [34]

- Space-timers (location and time sensitive): Exchange of messages with relevance mostly for one specific location at one specific point in time (e.g. <u>Facebook Places</u> <u>WhatsApp</u>; Foursquare)
- 2. Space-locators (only location sensitive): Exchange of messages, with relevance for one specific location, which is tagged to a certain place and read later by others (e.g. Yelp; Qype, Tumblr, Fishbrain)
- 3. *Quick-timers* (only time sensitive): Transfer of traditional social media mobile apps to increase immediacy (e.g. posting Twitter messages or Facebook status updates)
- 4. Slow-timers (neither location nor time sensitive): Transfer of traditional social media applications to mobile devices (e.g. watching a YouTube video or reading/editing a Wikipedia article)



The heavy usage of smartphones among young people relates to the significant percentage of social media users who are from this demographic.

# **Elements and function**

#### **Viral content**

Some social media sites have potential for content posted there to spread *virally* over social networks. The term is an analogy to the concept of viral infections, which can spread rapidly from person to person. In a social media context, content or websites that are "viral" (or which "go viral") are those with a greater likelihood that users will reshare content posted (by another user) to their social network, leading to further sharing. In some cases, posts containing popular content or fast-breaking news have been rapidly shared and reshared by a huge number of users. Many social media sites provide specific functionality to help users reshare content, such as Twitter's retweet button, Pinterest's pin function, Facebook's share option or Tumblr's reblog function. Businesses have a particular interest in viral marketing tactics because a viral campaign can achieve widespread advertising coverage (particularly if the viral reposting itself makes the news) for a fraction of the cost of a traditional marketing campaign, which typically uses printed materials, like newspapers, magazines, mailings, and billboards, and television and radio commercials. Nonprofit organizations and activists may have similar interests in posting content on social media sites with the aim of it going viral. A popular component and feature of Twitter is retweeting. Twitter allows other people to keep up with important events, stay connected with their peers, and can contribute in various ways throughout social media. [35] When certain posts become popular, they start to get retweeted over and over again, becoming viral. Hashtags can be used in tweets, and can also be used to take count of how many people have used that hashtag.

#### **Bots**

Social media can enable companies to get in the form of greater market share and increased audiences.<sup>[36]</sup> Internet bots have been developed which facilitate social media marketing. Bots are automated programs that run over the Internet.<sup>[37]</sup> Chatbots and social bots are programmed to mimic natural human interactions such as liking, commenting, following, and unfollowing on social media platforms.<sup>[38]</sup> A new industry of bot providers has been created.<sup>[39]</sup> Social bots and chatbots have created an analytical crisis in the marketing industry<sup>[40]</sup> as they make it difficult to differentiate between human interactions and automated bot interactions.<sup>[40]</sup> Some bots are negatively affecting their marketing data

causing a "digital cannibalism" in social media marketing. Additionally, some bots violate the <u>terms of use</u> on many social mediums such as Instagram, which can result in profiles being taken down and banned.<sup>[41]</sup>

"Cyborgs", a combination of a human and a bot, [42][43] are used to spread fake news or create a marketing "buzz". [44] Cyborgs can be bot-assisted humans or human-assisted bots. [45] An example is a human who registers an account for which they set automated programs to post, for instance, tweets, during their absence. [45] From time to time, the human participates to tweet and interact with friends. Cyborgs make it easier to spread fake news, as it blends automated activity with human input. [45] When the automated accounts are publicly identified, the human part of the cyborg is able to take over and could protest that the account has been used manually all along. Such accounts try to pose as real people; in particular, the number of their friends or followers should be resembling that of a real person.

## Patents of social media technology

There has been rapid growth in the number of U.S. patent applications that cover new technologies related to social media, and the number of them that are published has been growing rapidly over the past five years. There are now over 2000 published patent applications. [47] As many as 7000 applications may be currently on file including those that haven't been published yet. Only slightly over 100 of these applications have issued as patents, however, largely due to the multi-year backlog in examination of business method patents, patents which outline and claim new methods of doing business. [48]

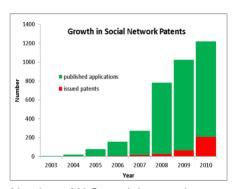
# Statistics on usage and membership

According to <u>Statista</u>, in 2019, it is estimated that there will be around 2.77 billion social media users around the globe, up from 2.46 billion in 2017.<sup>[49]</sup>

In 2020, there were 3.8 billion social media users.<sup>[50]</sup>

## Most popular social networks

The following list of the leading social networks shows the number of active users as of April 2020 (figures for Baidu Tieba, LinkedIn, Viber and Discord are from October 2019).<sup>[51]</sup>



Number of U.S. social network patent applications published and patents issued per year since 2003. The chart shows that the number of software applications published (the green bars) increased steadily from 2003 to 2007, and then shot up from 2008 to 2010.<sup>[46]</sup>



Social media websites are popular on mobile devices such as smartphones.

#	Network Name	Number of Users (in millions)	Country of Origin
1	Facebook	2,498	United States
2	YouTube	2,000	United States
3	WhatsApp	2,000	United States
4	Facebook Messenger	1,300	United States
5	WeChat	1,165	<u>China</u>
6	Instagram	1,000	United States
7	TikTok	800	China
8	QQ	731	China
9	Qzone	517	China
10	Sina Weibo	516	China
11	Reddit	430	United States
12	Kuaishou	400	China
13	Snapchat	398	United States
14	Twitter	386	United States
15	Pinterest	366	United States
16	Baidu Tieba	320	China
17	LinkedIn	310	United States
18	Viber	260	srael
19	Discord	250	United States

## **Usage**

According to a survey conducted by Pew Research in 2018, Facebook and YouTube dominate the social media landscape, as notable majorities of U.S. adults use each of these sites. At the same time, younger Americans (especially those ages 18 to 24) stand out for embracing a variety of platforms and using them frequently. Some 78% of 18 - 24-year-old youngsters use Snapchat, and a sizeable majority of these users (71%) visit the platform multiple times per day. Similarly, 71% of Americans in this age group now use Instagram and close to half (45%) are Twitter users. However, Facebook remains the primary platform for most Americans. Roughly two-thirds of U.S. adults (68%) now report that they are Facebook users, and roughly three-quarters of those users access Facebook on a daily basis. With the exception of those 65 and older, a majority of Americans across a wide range of demographic groups now use Facebook. [52] After this rapid growth, the number of new U.S. Facebook accounts created has plateaued, with not much observable growth in the 2016-18 period. [53]

# Use by organizations

### Use by governments

Governments may use social media to (for example):<sup>[54]</sup>

- interact with citizens
- foster citizen participation
- further open government
- analyze/monitor public opinion and activities

### Use by businesses

The high distribution of social media in the private environment drives companies to deal with the application possibilities of social media on

- customer-organizational level
- and on intra-organizational level.<sup>[55]</sup>

Marketplace actors can use social-media tools for marketing research, communication, sales promotions/discounts, informal employee-learning/organizational development, relationship development/loyalty programs, [34] and e-Commerce. Often social media can become a good source of information and/or explanation of industry trends for a business to embrace change. Trends in social-media technology and usage change rapidly, making it crucial for businesses to have a set of guidelines that can apply to many social media platforms. [56]

Companies are increasingly using <u>social-media monitoring</u> tools to monitor, track, and analyze online conversations on the Web about their brand or products or about related topics of interest. This can prove useful in <u>public relations</u> management and <u>advertising-campaign</u> tracking, allowing analysts to measure <u>return on investment</u> for their social media ad spending, competitor-auditing, and for <u>public engagement</u>. Tools range from free, basic applications to subscription-based, more in-depth tools.

Financial industries utilize the power of social media as a tool for analysing sentiment of financial markets. These range from the marketing of financial products, gaining insights into market sentiment, future market predictions, and as a tool to identify insider trading.<sup>[57]</sup>

Social media becomes effective through a process called "building social authority".<sup>[58]</sup> One of the foundation concepts in social media has become that one cannot completely control one's message through social media but rather one can simply begin to participate in the "conversation" expecting that one can achieve a significant influence in that conversation.<sup>[59]</sup>

# Social media mining

Social media "mining" is a type of <u>data mining</u>, a technique of <u>analyzing data</u> to detect patterns. Social media mining is a process of representing, analyzing, and extracting actionable patterns from data collected from people's activities on social media. Google mines data in many ways including using an <u>algorithm in Gmail</u> to analyze information in emails. This use of the information will then affect the type of advertisements shown to the user when they use Gmail. Facebook has partnered with many data mining companies such as <u>Datalogix</u> and <u>BlueKai</u> to use customer information for <u>targeted advertising</u>. [60] Ethical questions of the extent to which a company should be able to utilize a user's information have been called "big data". [60] Users tend to click through Terms of Use agreements when

signing up on social media platforms, and they do not know how their information will be used by companies. This leads to questions of privacy and surveillance when user data is recorded. Some social media outlets have added capture time and <u>Geotagging</u> that helps provide information about the context of the data as well as making their data more accurate.

## In politics

Social media has a range of uses in political processes and activities. Social media have been championed as allowing anyone with an Internet connection to become a content creator<sup>[61]</sup> and empowering their users.<sup>[62]</sup> The role of social media in democratizing media participation, which proponents herald as ushering in a new era of participatory democracy, with all users able to contribute news and comments, may fall short of the ideals, given that many often follow like-minded individuals, as noted by Philip Pond and Jeff Lewis.<sup>[63]</sup> Online media audience members are largely passive consumers, while content creation is dominated by a small number of users who post comments and write new content.<sup>[64]:78</sup>

Younger generations are becoming more involved in politics due to the increase of political news posted on social media. Political campaigns are targeting Millennials online via social media posts in hope that they will increase their political engagement. Social media was influential in the widespread attention given to the revolutionary outbreaks in the Middle East and North Africa during 2011. During the Tunisian revolution in 2011, people used Facebook to organize meetings and protests. However, there is debate about the extent to which social media facilitated this kind of political change.

Social Media footprints of candidates have grown during the last decade and the 2016 United States Presidential election provides a good example. Dounoucos et al. noted that Twitter use by the candidates was unprecedented during that election cycle. [70] Most candidates in the United States have a Twitter account. [71] The public has also increased their reliance on social media sites for political information. [70] In the European Union, social media has amplified political messages. [72]

One challenge is that militant groups have begun to see social media as a major organizing and recruiting tool. <sup>[73]</sup> The <u>Islamic State of Iraq and the Levant</u>, also known as ISIL, ISIS, and Daesh, has used social media to promote its cause. In 2014, #AllEyesonISIS went viral on Arabic Twitter. <sup>[74]</sup> ISIS produces an online magazine named the *Islamic State Report* to recruit more fighters. <sup>[75]</sup> Social media platforms have been <u>weaponized</u> by state-sponsored cyber groups to attack governments in the United States, European Union, and Middle East. Although <u>phishing attacks</u> via email are the most commonly used tactic to breach government networks, phishing attacks on social media rose 500% in 2016. <sup>[76]</sup>

# Use in hiring

Some employers examine job applicants' social media profiles as part of the hiring assessment. This issue raises many ethical questions that some consider an employer's right and others consider discrimination. Many Western European countries have already implemented laws that restrict the regulation of social media in the workplace. States including Arkansas, California, Colorado, Illinois, Maryland, Michigan, Nevada, New Jersey, New Mexico, Utah, Washington, and Wisconsin have passed legislation that protects potential employees and current employees from employers that demand that they provide their usernames and/or passwords for any social media accounts. [77] Use of social media by young people has caused significant problems for some applicants who are active on social media when they try to enter the job market. A survey of 17,000 young people in six countries in 2013 found that 1 in 10 people aged 16 to 34 have been rejected for a job because of online comments they made on social media websites. [78]

#### Use in school admissions

It is not only an issue in the workplace but an issue in post-secondary school admissions as well. There have been situations where students have been forced to give up their social media passwords to school administrators. <sup>[79]</sup> There are inadequate laws to protect a student's social media privacy, and organizations such as the ACLU are pushing for more privacy protection, as it is an invasion. They urge students who are pressured to give up their account information to tell the administrators to contact a parent or lawyer before they take the matter any further. Although they are students, they still have the right to keep their password-protected information private. <sup>[80]</sup>

Before social media,<sup>[81]</sup> admissions officials in the United States used <u>SAT</u> and other <u>standardized test</u> scores, extra-curricular activities, letters of recommendation, and high school report cards to



Photos of college applicants engaging in activities contrary to a school's rules or values can adversely affect admission, as evident from this photo of a 40-year-old crack addict.

determine whether to accept or deny an applicant. In the 2010s, while colleges and universities still use these traditional methods to evaluate applicants, these institutions are increasingly accessing applicants' social media profiles to learn about their character and activities. According to Kaplan, Inc, a corporation that provides higher education preparation, in 2012 27% of admissions officers used Google to learn more about an applicant, with 26% checking Facebook. [82] Students whose social media pages include offensive jokes or photos, racist or homophobic comments, photos depicting the applicant engaging in illegal drug use or drunkenness, and so on, may be screened out from admission processes.

# Use in law enforcement and investigations

Social media has been used extensively in civil and <u>criminal investigations</u>. [83] It has also been used to assist in searches for missing persons. [84] Police departments often make use of official social media accounts to engage with the public, publicize police activity, and burnish law enforcement's image; [85][86] conversely, video footage of citizen-documented <u>police brutality</u> and other <u>misconduct</u> has sometimes been posted to social media. [86]

In the United States <u>U.S. Immigration and Customs Enforcement</u> identifies and track individuals via social media, and also has apprehended some people via social media based sting operations. <u>U.S. Customs and Border Protection</u> (also known as CPB) and the <u>United States Department of Homeland Security</u> use social media data as influencing factors during the <u>visa</u> process, and continue to monitor individuals after they have entered the country. <u>Property of the States Department of Homeland Security uses social media data as influencing factors during the <u>visa</u> process, and continue to monitor individuals after they have entered the country. <u>Property of the visa process</u> and social media behavior at the border, searching both citizens and non-citizens without first obtaining a warrant.</u>

#### Use in court cases

Social media comments and images are being used in a range of court cases including employment law, child custody/child support and insurance disability claims. After an Apple employee criticized his employer on Facebook, he was fired. When the former employee sued Apple for unfair dismissal, the court, after seeing the man's Facebook posts, found in favor of Apple, as the man's social media comments breached Apple's policies. [89] After a heterosexual couple broke up, the man posted "violent rap lyrics from a song that talked about fantasies of killing the rapper's ex-wife" and made threats against

him. The court found him guilty and he was sentenced to jail.<sup>[89]</sup> In a disability claims case, a woman who fell at work claimed that she was permanently injured; the employer used her social media posts of her travels and activities to counter her claims.<sup>[89]</sup>

Courts do not always admit social media evidence, in part because screenshots can be faked or tampered with. [90] Judges are taking emojis into account to assess statements made on social media; in one Michigan case where a person alleged that another person had defamed them in an online comment, the judge disagreed, noting that there was an emoji after the comment which indicated that it was a joke. [90] In a 2014 case in Ontario against a police officer regarding alleged assault of a protester during the G20 summit, the court rejected the Crown's application to use a digital photo of the protest that was anonymously posted online, because there was no metadata proving when the photo was taken and it could have been digitally altered. [90]

# Social media marketing

Social media marketing has increased due to the growing active user rates on social media sites. For example, Facebook currently has 2.2 billion users, Twitter has 330 million active users and Instagram has 800 million users. One of the main uses is to interact with audiences to create awareness of their brand or service, with the main idea of creating a two-way communication system where the audience and/or customers can interact back; providing feedback as just one example. Social media can be used to advertise; placing an advert on Facebook's Newsfeed, for example, can allow a vast number of people to see it or targeting specific audiences from their usage to encourage awareness of the product or brand. Users of social media are then able to like, share and comment on the advert, becoming message senders as they can keep passing the advert's message on to their friends and onwards. The use of new media



Social media websites can also use "traditional" marketing approaches, as seen in these LinkedIn-branded chocolates.

put consumers on the position of spreading opinions, sharing experience, and has shift power from organization to consumers for it allows transparency and different opinions to be heard. [94] media marketing has to keep up with all the different platforms. They also have to keep up with the ongoing trends that are set by big influencers and draw many peoples attention. The type of audience a business is going for will determine the social media site they use. [3]

Social media personalities have been employed by marketers to promote products online. Research shows that digital endorsements seem to be successfully targeting social media users, [95] especially younger consumers who have grown up in the digital age. [96] Celebrities with large social media followings, such as Kylie Jenner, regularly endorse products to their followers on their social media pages. [97] In 2013, the United Kingdom Advertising Standards Authority (ASA) began to advise celebrities and sports stars to make it clear if they had been paid to tweet about a product or service by using the hashtag #spon or #ad within tweets containing endorsements. The practice of harnessing social media personalities to market or promote a product or service to their following is commonly referred to as Influencer Marketing. The Cambridge Dictionary defines an "influencer" as any person (personality, blogger, journalist, celebrity) who has the ability to affect the opinions, behaviors, or purchases of others through the use of social media. [98]

Companies such as fast food franchise <u>Wendy's</u> have used humor to advertise their products by poking fun at competitors such as <u>McDonald's</u> and <u>Burger King</u>. Other companies such as <u>Juul</u> have used hashtags to promote themselves and their products. [100]

On social media, consumers are exposed to the purchasing practices of peers through messages from a peer's account, which may be peer-written. Such messages may be part of an interactive marketing strategy involving modeling, reinforcement, and social interaction mechanisms.<sup>[101]</sup> A 2011 study focusing on peer communication through social media described how communication between peers through social media can affect purchase intentions: a direct impact through conformity, and an indirect impact by stressing product engagement.<sup>[101]</sup> The study indicated that social media communication between peers about a product had a positive relationship with product engagement.<sup>[101]</sup>

#### Use in science

Signals from social media are used to assess <u>academic publications</u>, [102] as well as for evaluation of the <u>quality</u> of the <u>Wikipedia</u> articles and their sources. [103] Data from social media can be also used for different scientific approaches. One of the studies examined how millions of users interact with socially shared news and show that individuals' choices played a stronger role in limiting exposure to crosscutting content. [104] Another study found that most of the health science students acquiring academic materials from others through social media. [105] Massive amounts of data from social platforms allows scientists and <u>machine learning</u> researchers to extract insights and build product features. [106] Using social media can help to shape patterns of deception in resumes. [107]

# Use by individuals

#### As a news source

In the United States, 81% of users look online for news of the weather, first and foremost, with the percentage seeking national news at 73%, 52% for sports news, and 41% for entertainment or celebrity news. According to CNN, in 2010 75% of people got their news forwarded through e-mail or social media posts, whereas 37% of people shared a news item via Facebook or Twitter. Facebook and Twitter make news a more participatory experience than before as people share news articles and comment on other people's posts. Rainie and Wellman have argued that media making now has become a participation work, which changes communication systems. However, 27% of respondents worry about the accuracy of a story on a blog. From a 2019 poll, Pew Research Center found that Americans are wary about the ways that social media sites share news and certain content. This wariness of accuracy is on the rise as social media sites are increasingly exploited by aggregated new sources which stitch together multiple feeds to develop plausible correlations. Hemsley, Jacobson et al. refer to this phenomenon as "pseudoknowledge" which develop false narratives and fake news that are supported through general analysis and ideology rather than facts. Italian Social media as a news source is further questioned as spikes in evidence surround major news events such as was captured in the United States 2016 presidential election.

#### Effects on individual and collective memory

News media and television journalism have been a key feature in the shaping of American collective memory for much of the twentieth century. [113][114] Indeed, since the United States' colonial era, news media has influenced collective memory and discourse about national development and trauma. In many ways, mainstream journalists have maintained an authoritative voice as the storytellers of the American past. Their documentary style narratives, detailed exposes, and their positions in the present make them prime sources for public memory. Specifically, news media journalists have shaped collective memory on

nearly every major national event – from the deaths of social and political figures to the progression of political hopefuls. Journalists provide elaborate descriptions of commemorative events in U.S. history and contemporary popular cultural sensations. Many Americans learn the significance of historical events and political issues through news media, as they are presented on popular news stations. [115] However, journalistic influence is growing less important, whereas social networking sites such as Facebook, YouTube and Twitter, provide a constant supply of alternative news sources for users.

As social networking becomes more popular among older and younger generations, sites such as Facebook and YouTube, gradually undermine the traditionally authoritative voices of news media. For example, American citizens contest media coverage of various social and political events as they see fit, inserting their voices into the narratives about America's past and present and shaping their own collective memories. [116][117] An example of this is the public explosion of the Trayvon Martin shooting in Sanford, Florida. News media coverage of the incident was minimal until social media users made the story recognizable through their constant discussion of the case. Approximately one month after the fatal shooting of Trayvon Martin, its online coverage by everyday Americans garnered national attention from mainstream media journalists, in turn exemplifying media activism. In some ways, the spread of this tragic event through alternative news sources parallels that of Emmitt Till – whose murder by lynching in 1955 became a national story after it was circulated in African-American and Communist newspapers.

### Interpersonal relationships

Social media is used to fulfill perceived social needs, but not all needs can be fulfilled by social media. [118] For example, lonely individuals are more likely to use the Internet for emotional support than those who are not lonely. [119] Sherry Turkle explores these issues in her book *Alone Together* as she discusses how people confuse social media usage with authentic communication. She posits that people tend to act differently online and are less afraid to hurt each other's feelings. Additionally, studies on who interacts on the internet have shown that extraversion and openness have a positive relationship with social media, while emotional stability has a negative sloping relationship with social media. [120]



Modern day teenagers interacting

Some online behaviors can cause stress and anxiety, due to the permanence of online posts, the fear of being hacked, or of universities and employers exploring social media pages. Turkle also speculates that people are beginning to prefer texting to face-to-face communication, which can contribute to feelings of loneliness. [121] Some researchers have also found that exchanges that involved direct communication and reciprocation of messages correlated with less feelings of loneliness. However, passively using social media without sending or receiving messages does not make people feel less lonely unless they were lonely to begin with. [122]

Checking updates on friends' activities on social media is associated with the "fear of missing out" (FOMO), the "pervasive apprehension that others might be having rewarding experiences from which one is absent". [123] FOMO is a social anxiety [124] characterized by "a desire to stay continually connected with what others are doing". [123] It has negative influences on people's psychological health and well-being because it could contribute to negative mood and depressed feelings. [125]

Concerns have been raised about online "stalking" or "creeping" of people on social media, which means looking at the person's "timeline, status updates, tweets, and online bios" to find information about them and their activities. [126] While social media creeping is common, it is considered to be poor form to admit

to a new acquaintance or new date that you have looked through his or her social media posts, particularly older posts, as this will indicate that you were going through their old history. [126] A subcategory of creeping is creeping ex-partners' social media posts after a breakup to investigate if there is a new partner or new dating; this can lead to preoccupation with the ex, rumination and negative feelings, all of which postpone recovery and increase feelings of loss. [127] Catfishing has become more prevalent since the advent of social media. Relationships formed with catfish can lead to actions such as supporting them with money and catfish will typically make excuses as to why they cannot meet up or be viewed on camera. [128]

According to research from UCLA, teenage brains' reward circuits were more active when teenager's photos were liked by more peers. This has both positive and negative features. Teenagers and young adults befriend people online whom they do not know well. This opens the possibility of a child being influenced by people who engage in risk-taking behavior. When children have several hundred online connections there is no way for parents to know who they are.<sup>[129]</sup>

### **Self-presentation**

The more time people spend on Facebook, the less satisfied they feel about their life. [130] Self-presentational theory explains that people will consciously manage their self-image or identity related information in social contexts. When people are not accepted or are criticized online they feel emotional pain. [131] This may lead to some form of online retaliation such as online bullying. [132] Trudy Hui Hui Chua and Leanne Chang's article, "Follow Me and Like My Beautiful Selfies: Singapore Teenage Girls' Engagement in Self-Presentation and Peer Comparison on Social Media" [133] states that teenage girls manipulate their self-presentation on social media to achieve a sense of beauty that is projected by their peers. These authors also discovered that teenage girls compare themselves to their peers on social media and present themselves in certain ways in effort to earn regard and acceptance, which can actually lead to problems with self-confidence and self-satisfaction. [133]

Users also tend to segment their audiences based on the image they want to present, pseudonymity and use of multiple accounts across the same platform remain popular ways to negotiate platform expectations and segment audiences.<sup>[134]</sup>

# Health improvement and behavior reinforcement

Social media can also function as a supportive system for adolescents' health, because by using social media, adolescents are able to mobilize around health issues that they themselves deem relevant. For example, in a clinical study among adolescent patients undergoing treatment for obesity, the participants' expressed that through social media, they could find personalized weight-loss content as well as social support among other adolescents with obesity The same authors also found that as with other types of online information, the adolescents need to possess necessary skills to evaluate and identify reliable health information, competencies commonly known as health literacy.

Other social media, such as <u>pro-anorexia</u> sites, have been found in studies to cause significant risk of harm by reinforcing negative health-related behaviors through social networking, especially in adolescents.<sup>[137][138][139]</sup>

# **Social impacts**

### **Disparity**

The digital divide is a measure of disparity in the level of access to technology between households, socioeconomic levels or other demographic categories. [140][141] People who are homeless, living in poverty, elderly people and those living in rural or remote communities may have little or no access to computers and the Internet; in contrast, middle class and upper-class people in urban areas have very high rates of computer and Internet access. Other models argue that within a modern information society, some individuals produce Internet content while others only consume it, [142][143] which could be a result of disparities in the education system where only some teachers integrate technology into the classroom and teach critical thinking.<sup>[144]</sup> While social media has differences among age groups, a 2010 study in the United States found no racial divide. [145] Some zero-rating programs offer subsidized data access to certain websites on low-cost plans. Critics say that this is an anti-competitive program that undermines net neutrality and creates a "walled garden"[146] for platforms like Facebook Zero. A 2015 study found that 65% of Nigerians, 61% of



People who live in poverty, such as homeless people, have low levels of access to computers and Internet or a lack of familiarity with these technologies. This means that these marginalized people are not able to use social media tools to find information, jobs, housing, and other necessities.

Indonesians, and 58% of Indians agree with the statement that "Facebook is the Internet" compared with only 5% in the US.<sup>[147]</sup>

Eric Ehrmann contends that social media in the form of public diplomacy create a patina of inclusiveness that covers<sup>[148]</sup> traditional economic interests that are structured to ensure that wealth is pumped up to the top of the economic pyramid, perpetuating the digital divide and post Marxian class conflict. He also voices concern over the trend that finds social utilities operating in a quasi-libertarian global environment of oligopoly that requires users in economically challenged nations to spend high percentages of annual income to pay for devices and services to participate in the social media lifestyle. Neil Postman also contends that social media will increase an information disparity between "winners" – who are able to use the social media actively – and "losers" – who are not familiar with modern technologies or who do not have access to them. People with high social media skills may have better access to information about job opportunities, potential new friends, and social activities in their area, which may enable them to improve their standard of living and their quality of life.

# **Political polarization**

According to the Pew Research Center, a majority of Americans at least occasionally receive news from social media. [149] Because of algorithms on social media which filter and display news content which are likely to match their users' political preferences, a potential impact of receiving news from social media includes an increase in political polarization due to selective exposure. [150] Political polarization refers to when an individual's stance on a topic is more likely to be strictly defined by their identification with a specific political party or ideology than on other factors. Selective exposure occurs when an individual favors information which supports their beliefs and avoids information which conflicts with their beliefs. A study by Hayat and Samuel-Azran conducted during the 2016 U.S. presidential election observed an "echo chamber" effect of selective exposure among 27,811 Twitter users following the content of cable news shows. [150] The Twitter users observed in the study were found to have little interaction with users and content whose beliefs were different from their own, possibly heightening polarization effects. [150][151]

Efforts to combat selective exposure in social media may also cause an increase in political polarization. A study examining Twitter activity conducted by Bail et al. paid Democrat and Republican participants to follow Twitter handles whose content was different from their political beliefs (Republicans received liberal content and Democrats received conservative content) over a six-week period. At the end of the study, both Democrat and Republican participants were found to have increased political polarization in favor of their own parties, though only Republican participants had an increase that was statistically significant. [152]

Though research has shown evidence that social media plays a role in increasing political polarization, it has also shown evidence that social media use leads to a persuasion of political beliefs. [153][154] An online survey consisting of 1,024 U.S. participants was conducted by Diehl, Weeks, and Gil de Zuñiga, which found that individuals who use social media were more likely to have their political beliefs persuaded than those who did not. [153] In particular, those using social media as a means to receive their news were the most likely to have their political beliefs changed. [153] Diehl et al. found that the persuasion reported by participants was influenced by the exposure to diverse viewpoints they experienced, both in the content they saw as well as the political discussions they participated in. [153] Similarly, a study by Hardy and colleagues conducted with 189 students from a Midwestern state university examined the persuasive effect of watching a political comedy video on Facebook. [154] Hardy et al. found that after watching a Facebook video of the comedian/political commentator John Oliver performing a segment on his show, participants were likely to be persuaded to change their viewpoint on the topic they watched (either payday lending or the Ferguson protests) to one that was closer to the opinion expressed by Oliver. [154] Furthermore, the persuasion experienced by the participants was found to be reduced if they viewed comments by Facebook users which contradicted the arguments made by Oliver. [154]

Research has also shown that social media use may not have an effect on polarization at all.<sup>[155]</sup> A U.S. national survey of 1,032 participants conducted by Lee et al. found that participants who used social media were more likely to be exposed to a diverse number of people and amount of opinion than those who did not, although using social media was not correlated with a change in political polarization for these participants.<sup>[155]</sup>

In a study examining the potential polarizing effects of social media on the political views of its users, Mihailidis and Viotty suggest that a new way of engaging with social media must occur to avoid polarization. The authors note that media literacies (described as methods which give people skills to critique and create media) are important to using social media in a responsible and productive way, and state that these literacies must be changed further in order to have the most effectiveness. In order to decrease polarization and encourage cooperation among social media users, Mihailidis and Viotty suggest that media literacies must focus on teaching individuals how to connect with other people in a caring way, embrace differences, and understand the ways in which social media has a realistic impact on the political, social, and cultural issues of the society they are a part of. In order to social media has a realistic impact on the political, social, and cultural issues of the society they are a part of.

# Stereotyping

Recent research has demonstrated that social media, and media in general, have the power to increase the scope of stereotypes not only in children but people all ages.<sup>[157]</sup> Three researchers at Blanquerna University, Spain, examined how adolescents interact with social media and specifically Facebook. They suggest that interactions on the website encourage representing oneself in the traditional gender constructs, which helps maintain gender stereotypes.<sup>[158]</sup> The authors noted that girls generally show more emotion in their posts and more frequently change their profile pictures, which according to some psychologists can lead to self-objectification.<sup>[159]</sup> On the other hand, the researchers found that boys prefer to portray themselves as strong, independent, and powerful.<sup>[160]</sup> For example, men often post

pictures of objects and not themselves, and rarely change their profile pictures; using the pages more for entertainment and pragmatic reasons. In contrast girls generally post more images that include themselves, friends and things they have emotional ties to, which the researchers attributed that to the higher emotional intelligence of girls at a younger age. The authors sampled over 632 girls and boys from the ages of 12–16 from Spain in an effort to confirm their beliefs. The researchers concluded that masculinity is more commonly associated with a positive psychological well-being, while femininity displays less psychological well-being. [161] Furthermore, the researchers discovered that people tend not to completely conform to either stereotype, and encompass desirable parts of both. Users of Facebook generally use their profile to reflect that they are a "normal" person. Social media was found to uphold gender stereotypes both feminine and masculine. The researchers also noted that the traditional stereotypes are often upheld by boys more so than girls. The authors described how neither stereotype was entirely positive, but most people viewed masculine values as more positive.

## Physical and mental health

There are several negative effects to social media which receive criticism, for example regarding privacy issues, [162] information overload [163] and Internet fraud. Social media can also have negative social effects on users. [164] Angry or emotional conversations can lead to real-world interactions outside of the Internet, which can get users into dangerous situations. Some users have experienced threats of violence online and have feared these threats manifesting themselves offline. At the same time, concerns have been raised about possible links between heavy social media use and depression, and even the issues of cyberbullying, online harassment and "trolling". According to cyber bullying statistics from the i-Safe Foundation, over half of adolescents and teens have been bullied online, and about the same number have engaged in cyber bullying. [165] Both the bully and the victim are negatively affected, and the intensity, duration, and frequency of bullying are the three aspects that increase the negative effects on both of them.<sup>[166]</sup> Studies also show that social media have negative effects on peoples' self-esteem and self-worth. The authors of "Who Compares and Despairs? The Effect of Social Comparison Orientation on Social Media Use and its Outcomes"[167] found that people with a higher social comparison orientation appear to use social media more heavily than people with low social comparison orientation. This finding was consistent with other studies that found people with high social comparison orientation make more social comparisons once on social media.

People compare their own lives to the lives of their friends through their friends' posts. People are motivated to portray themselves in a way that is appropriate to the situation and serves their best interest. Often the things posted online are the positive aspects of people's lives, making other people question why their own lives are not as exciting or fulfilling. This can lead to depression and other self-esteem issues as well as decrease their satisfaction of life as they feel if their life is not exciting enough to put online it is not as good as their friends or family. [168]

Studies have shown that self comparison on social media can have dire effects on physical and mental health because they give us the ability to seek approval and compare ourselves. [169] Social media has both a practical usage- to connect us with others, but also can lead to fulfillment of gratification. [170] In fact, one study suggests that because a critical aspect of social networking sites involve spending hours, if not months customizing a personal profile, and encourage a sort of social currency based on likes, followers and comments- they provide a forum for persistent "appearance conversations". [171] These appearance centered conversations that forums like Facebook, Instagram among others provide can lead to feelings of disappointment in looks and personality when not enough likes or comments are achieved. In addition, social media use can lead to detrimental physical health effects. A large body of literature associates body image and disordered eating with social networking platforms. Specifically, literature suggests that social media can breed a negative feedback loop of viewing and uploading photos, self

comparison, feelings of disappointment when perceived social success is not achieved, and disordered body perception.<sup>[172]</sup> In fact, one study shows that the microblogging platform, Pinterest is directly associated with disordered dieting behavior, indicating that for those who frequently look at exercise or dieting "pins" there is a greater chance that they will engage in extreme weight-loss and dieting behavior.<sup>[173]</sup>

Bo Han, a social media researcher at Texas A&M University-Commerce, finds that users are likely to experience the "social media burnout" issue. [174] Ambivalence, emotional exhaustion, and depersonalization are usually the main symptoms if a user experiences social media burnout. Ambivalence refers to a user's confusion about the benefits she can get from using a social media site. Emotional exhaustion refers to the stress a user has when using a social media site. Depersonalization refers to the emotional detachment from a social media site a user experiences. The three burnout factors can all negatively influence the user's social media continuance. This study provides an instrument to measure the burnout a user can experience, when his or her social media "friends" are generating an overwhelming amount of useless information (e.g., "what I had for dinner", "where I am now").

#### **Adolescents**

Excessive use of digital technology, like social media, by adolescents can cause disruptions in their physical and mental health, in sleeping patterns, their weight and levels of exercise and notably in their academic performance. Research has continued to demonstrate that long hours spent on mobile devices have shown a positive relationship with an increase in teenagers' BMI and a lack of physical activity. Moreover, excessive internet usage has been linked to lower grades compared to users who do not spend an excessive amount of time online, even with a control over age, gender, race, parent education and personal contentment factors that may affect the study. [175] In a recent study, it was found that time spent on Facebook has a strong negative relationship with overall GPA.<sup>[176]</sup> The use of multiple social media platforms is more strongly associated with depression and anxiety among young adults than time spent online. The analysis showed that people who reported using the most platforms (7 to 11) had more than three times the risk of depression and anxiety than people who used the fewest (o to 2).[177] Social media addiction and its sub-dimensions have a high positive correlation. The more the participants are addicted to social media, the less satisfied they are with life. Some parents restrict their children's access to social media for these reasons.<sup>[178][179]</sup> There are many ways to combat the negative effects of social media, one being increasing the education teachers and parents of the real harms of social media, as most grew up without the access to social media that adolescents have in 2020.

#### Sleep disturbances

According to a study released in 2017 by researchers from the <u>University of Pittsburgh</u>, the link between sleep disturbance and the use of social media was clear. It concluded that blue light had a part to play—and how often they logged on, rather than time spent on social media sites, was a higher predictor of disturbed sleep, suggesting "an obsessive 'checking'". [180] The strong relationship of social media use and sleep disturbance has significant clinical ramifications for a young adults health and well-being. In a recent study, we have learned that people in the highest quartile for social media use per week report the most sleep disturbance. The median number of minutes of social media use per day is 61 minutes. Lastly, we have learned that females are more inclined to experience high levels of sleep disturbance than males. [181]

#### Changes in mood

Many teenagers suffer from sleep deprivation as they spend long hours at night on their phones, and this, in turn, could affect grades as they will be tired and unfocused in school. Social media has generated a phenomenon known as "Facebook depression", which is a type of depression that affects adolescents who spend too much of their free time engaging with social media sites. "Facebook depression" leads to problems such as reclusiveness which can negatively damage ones health by creating feelings of loneliness and low self-esteem among young people. [182] At the same time, a 2017 shown that there is a link between social media addiction and negative mental health effects. In this study, almost 6,000 adolescent students were examined using the Bergen Social Media Addiction Scale. 4.5% of these students were found to be "at risk" of social media addiction. Furthermore, this same 4.5% reported low self-esteem and high levels of depressive symptoms. [183]

UK researchers used a data set of more than 800 million <u>Twitter</u> messages to evaluate how collective mood changes over the course of 24 hours and across the seasons. The research team collected 800 million anonymous Tweets from 33,576 time points over four years, to examine anger and sadness and compare them with fatigue. The "research revealed strong circadian patterns for both positive and negative moods. The profiles of anger and fatigue were found remarkably stable across the seasons or between the weekdays/weekend." The "positive emotions and sadness showed more variability in response to these changing conditions and higher levels of interaction with the onset of sunlight exposure." [184]

### Effects on youth communication

Social media has allowed for mass cultural exchange and intercultural communication. As different cultures have different value systems, cultural themes, grammar, and world views, they also communicate differently. The emergence of social media platforms fused together different cultures and their communication methods, blending together various cultural thinking patterns and expression styles. [186]

Social media has affected the way youth communicate, by introducing new forms of language. Abbreviations have been introduced to cut down on the time it takes to respond online. The commonly known "LOL" has become globally recognized as the abbreviation for "laugh out loud" thanks to social media.

Another trend that influences the way youth communicates is (through) the use of hashtags. With the introduction of social media platforms such as <u>Twitter</u>, <u>Facebook</u> and <u>Instagram</u>, the hashtag was created to easily organize and search for information. Hashtags can be used when people want to advocate for a movement, store content or tweets from a movement for future use, and allow other social media users to contribute to a discussion about a certain movement by using existing hashtags. Using hashtags as a way to advocate for something online makes it easier and more accessible for more people to acknowledge it around the world. As hashtags such as #tbt ("throwback Thursday") become a part of online communication, it influenced the way in which youth share and communicate in their daily lives. Because of these changes in linguistics and communication etiquette, researchers of media semiotics have found that this has altered youth's communications habits and more.

Social media has offered a new platform for <u>peer pressure</u> with both positive and negative communication. From Facebook comments to likes on Instagram, how the youth communicate and what is socially acceptable is now heavily based on social media. Social media does make kids and young adults more susceptible to peer pressure. The American Academy of Pediatrics has also shown that bullying, the making of non-inclusive friend groups, and sexual experimentation have increased situations related to cyberbullying, issues with privacy, and the act of sending sexual images or messages to someone's mobile device. On the other hand, social media also benefits the youth and how they

communicate.<sup>[188]</sup> Adolescents can learn basic social and technical skills that are essential in society.<sup>[189]</sup> Through the use of social media, kids and young adults are able to strengthen relationships by keeping in touch with friends and family, make more friends, and participate in community engagement activities and services.<sup>[190]</sup>

# Criticism, debate and controversy

Criticisms of social media range from criticisms of the ease of use of specific platforms and their capabilities, disparity of information available, issues with trustworthiness and reliability of information presented, [191] the impact of social media use on an individual's concentration, [192] ownership of media content, and the meaning of interactions created by social media. Although some social media platforms offer users the opportunity to cross-post simultaneously, some social network platforms have been criticized for poor interoperability between platforms, which leads to the creation of information silos, viz. isolated pockets of data contained in one social media platform.<sup>[193]</sup> However, it is also argued that social media has positive effects, such as allowing the democratization of the Internet<sup>[194]</sup> while also allowing individuals to advertise themselves and form friendships. [61] Others[195] have noted that the term "social" cannot account for technological features of a platform alone, hence the level of sociability should be determined by the actual performances of its users. There has been a dramatic decrease in face-to-face interactions as more and more social media platforms have been introduced with the threat of cyber-bullying and online sexual predators being more prevalent.<sup>[196]</sup> Social media may expose children to images of alcohol, tobacco, and sexual behaviors. [197] In regards to cyber-bullying, it has been proven that individuals who have no experience with cyber-bullying often have a better well-being than individuals who have been bullied online. [198]

Twitter is increasingly a target of heavy activity of marketers. Their actions, focused on gaining massive numbers of followers, include use of advanced scripts and manipulation techniques that distort the prime idea of social media by abusing human trustfulness. [199] British-American entrepreneur and author Andrew Keen criticizes social media in his book *The Cult of the Amateur*, writing, "Out of this anarchy, it suddenly became clear that what was governing the infinite monkeys now inputting away on the Internet was the law of digital Darwinism, the survival of the loudest and most opinionated. Under these rules, the only way to intellectually prevail is by infinite filibustering." [200] This is also relative to the issue "justice" in the social network. For example, the phenomenon "Human flesh search engine" in Asia raised the discussion of "private-law" brought by social network platform. Comparative media professor José van Dijck contends in her book "The Culture of Connectivity" (2013) that to understand the full weight of social media, their technological dimensions should be connected to the social and the cultural. She critically describes six social media platforms. One of her findings is the way Facebook had been successful in framing the term 'sharing' in such a way that third party use of user data is neglected in favor of intra-user connectedness.

Essena O'Neill attracted international coverage when she explicitly left social media. [201]

# Trustworthiness and reliability

There has been speculation that social media has become perceived as a trustworthy source of information by a large number of people<sup>[202]</sup>.[1] (https://www.researchgate.net/publication/263768278\_Undergraduates'\_Use\_of\_Social\_Media\_as\_Information\_Sources) The continuous interpersonal connectivity on social media, for example, may lead to people regarding peer recommendations as indicators of the reliability of information sources. This trust can be exploited by marketers, who can utilize consumer-created content about brands and products to influence public perceptions.<sup>[203][204]</sup>

Trustworthiness of information can be improved by <u>fact-checking</u>. Some social media has started to employ this. [205][206][207]

Evgeny Morozov, a 2009–2010 Yahoo fellow at Georgetown University, contended that information uploaded to Twitter may have little relevance to the masses of people who do not use Twitter. In an article for the magazine *Dissent* titled "Iran: Downside to the 'Twitter Revolution'", Morozov wrote:

[B]y its very design Twitter only adds to the noise: it's simply impossible to pack much context into its 140 characters. All other biases are present as well: in a country like Iran it's mostly pro-Western, technology-friendly and iPod-carrying young people who are the natural and most frequent users of Twitter. They are a tiny and, most important, extremely untypical segment of the Iranian population (the number of Twitter users in Iran — a country of more than seventy million people — was estimated at less than twenty thousand before the protests). [208]

In contrast, in the United States (where Twitter originated), the social network had 306 million accounts as of 2012. [209] The number of accounts, though sizable in proportion to the U.S. population of 314.7 million in 2012, [210] may not be fairly comparable, since an undisclosed number of Twitter users operate multiple accounts.

Professor <u>Matthew Auer of Bates College</u> casts doubt on the conventional wisdom that social media are open and participatory. He also speculates on the emergence of "anti-social media" used as "instruments of pure control."<sup>[211]</sup>

#### Criticism of data harvesting on Facebook

On April 10, 2018, in a hearing held in response to revelations of data harvesting by <u>Cambridge Analytica</u>, Mark Zuckerberg, the <u>Facebook</u> chief executive, faced questions from senators on a variety of issues, from privacy to the company's business model and the company's mishandling of data. This was Mr. Zuckerberg's first appearance before Congress, prompted by the revelation that Cambridge Analytica, a political consulting firm linked to the Trump campaign, harvested the data of an estimated 87 million Facebook users to psychologically profile voters during the 2016 election. Zuckerburg was pressed to account for how third-party partners could take data without users' knowledge. Lawmakers grilled the 33-year-old executive on the proliferation of so-called fake news on Facebook, Russian interference during the 2016 presidential election and censorship of conservative media. [212]

# Critique of activism

For Malcolm Gladwell, the role of social media, such as Twitter and Facebook, in revolutions and protests is overstated. On one hand, social media make it easier for individuals, and in this case activists, to express themselves. On the other hand, it is harder for that expression to have an impact. Gladwell distinguishes between social media activism and high risk activism, which brings real changes. Activism and especially high-risk activism involves strong-tie relationships, hierarchies, coordination, motivation, exposing oneself to high risks, making sacrifices. Gladwell discusses that social media are built around weak ties and he argues that "social networks are effective at increasing participation — by lessening the level of motivation that participation requires". According to him "Facebook activism succeeds not by motivating people to make a real sacrifice, but by motivating them to do the things that people do when they are not motivated enough to make a real sacrifice".

Disputing Gladwell's theory, in the study "Perceptions of Social Media for Politics: Testing the Slacktivism Hypothesis," Kwak and colleagues conducted a survey which found that people who are politically expressive on social media are also more likely to participate in offline political activity. [214]

### Ownership of content

Social media content is generated through social media interactions done by the users through the site. There has always been a huge debate on the ownership of the content on social media platforms because it is generated by the users and hosted by the company. Added to this is the danger to security of information, which can be leaked to third parties with economic interests in the platform, or parasites who comb the data for their own databases. [215]

## **Privacy**

<u>Privacy</u> rights advocates warn users on social media about the collection of their personal data. Some information is captured without the user's knowledge or <u>consent</u> through electronic tracking and third party applications. Data may also be collected for law enforcement and governmental purposes, social media intelligence using <u>data mining</u> techniques. Data and information may also be collected for third party use. When information is shared on social media, that information is no longer private. There have been many cases in which young persons especially, share personal information, which can attract predators. It is very important to monitor what you share, and to be aware of who you could potentially be sharing that information with. Teens especially share significantly more information on the internet now than they have in the past. Teens are much more likely to share their personal information, such as email address, phone number, and school names. Studies suggest that teens are not aware of what they are posting and how much of that information can be accessed by third parties.

There are arguments that "privacy is dead" and that with social media growing more and more, some heavy social media users appear to have become quite unconcerned with privacy. Others argue, however, that people are still very concerned about their privacy, but are being ignored by the companies running these social networks, who can sometimes make a profit off of sharing someone's personal information. There is also a disconnect between social media user's words and their actions. Studies suggest that surveys show that people want to keep their lives private, but their actions on social media suggest otherwise. Another factor is ignorance of how accessible social media posts are. Some social media users who have been criticized for inappropriate comments stated that they did not realize that anyone outside their circle of friends would read their post; in fact, on some social media sites, unless a user selects higher privacy settings, their content is shared with a wide audience.

According to a 2016 article diving into the topic of sharing privately and the effect social media has on expectations of privacy, "1.18 billion people will log into their Facebook accounts, 500 million tweets will be sent, and there will be 95 million photos and videos posted on Instagram" in a day. Much of the privacy concerns individuals face stem from their own posts on a form of social network. Users have the choice to share voluntarily, and has been ingrained into society as routine and normative. Social media is a snapshot of our lives; a community we have created on the behaviors of sharing, posting, liking, and communicating. Sharing has become a phenomenon which social media and networks have uprooted and introduced to the world. [217] The idea of privacy is redundant; once something is posted, its accessibility remains constant even if we select who is potentially able to view it. People desire privacy in some shape or form, yet also contribute to social media, which makes it difficult to maintain privacy. [218] Mills offers options for reform which include copyright and the application of the law of confidence; more radically, a change to the concept of privacy itself.

A 2014 Pew Research Center survey found that 91% of Americans "agree" or "strongly agree" that people have lost control over how personal information is collected and used by all kinds of entities. Some 80% of social media users said they were concerned about advertisers and businesses accessing the data they share on social media platforms, and 64% said the government should do more to regulate advertisers. [219]

According to the wall street journal published on February 17, 2019 According to the UK law, Facebook did not protect certain aspects of the user data. [220]

#### Criticism of commercialization

The commercial development of social media has been criticized as the actions of consumers in these settings has become increasingly value-creating, for example when consumers contribute to the marketing and branding of specific products by posting positive reviews. As such, value-creating activities also increase the value of a specific product, which could, according to the marketing professors Bernad Cova and Daniele Dalli, lead to what they refer to as "double exploitation". [221] Companies are getting consumers to create content for the companies' websites for which the consumers are not paid.

As social media usage has become increasingly widespread, social media has to a large extent come to be subjected to <u>commercialization</u> by <u>marketing companies</u> and advertising agencies.<sup>[222]</sup> Christofer Laurell, a digital marketing researcher, suggested that the social media landscape currently consists of three types of places because of this development: consumer-dominated places, professionally dominated places and places undergoing commercialization.<sup>[223]</sup> As social media becomes commercialized, this process have been shown to create novel forms of value networks stretching between consumer and producer<sup>[224]</sup> in which a combination of personal, private and commercial contents are created.<sup>[225]</sup>

#### Debate over addiction

As one of the biggest preoccupations among adolescents is social media usage, researchers have begun using the term "F.A.D.," or "Facebook addiction disorder," a form of internet addiction disorder. FAD is characterized by a compulsive use of the social networking site Facebook, which generally results in physical or psychological complications. The disorder, although not classified in the latest Diagnostic and Statistical Manual of Mental Disorders (DSM-5) or by the World Health Organization, has been the subject of several studies focusing on the negative effects on the psyche. One German study, published in 2017, investigated a correlation between extensive use of the social networking site and narcissism; the results were published in the journal PLoS One. According to the findings: "FAD was significantly positively related to the personality trait narcissism and to negative mental health variables (depression, anxiety, and stress symptoms)."[227] While these issues regarding social media addiction are continuous and increasing, there are ways to help reduce and curb one's social media obsessions. Turning off notifications (temporary or long-term) is one solution that is deemed beneficial in attempts to lessen social media addiction by resolving issues of distraction, for those who struggle with the habit of constantly refreshing social media platforms and checking for new notifications. [228]

## Debate over use in academic settings

Having social media in the classroom was a controversial topic in the 2010s. Many parents and educators have been fearful of the repercussions of having social media in the classroom. [229] There are concerns that social media tools can be misused for cyberbullying or sharing inappropriate content. As result, cell

phones have been banned from some classrooms, and some schools have blocked many popular social media websites. Many schools have realized that they need to loosen restrictions, teach digital citizenship skills, and even incorporate these tools into classrooms. Some schools permit students to use smartphones or tablet computers in class, as long as the students are using these devices for academic purposes, such as doing research. Using Facebook in class allows for integration of multimodal content such as student-created photographs and video and URLs to other texts, in a platform that many students are already familiar with. Twitter can be used to enhance communication building and critical thinking and it provides students with an informal "back channel"), and extend discussion outside of class time.

### **Censorship by governments**

Social media often features in political struggles to control public perception and online activity. In some countries, Internet police or secret police monitor or control citizens' use of social media. For example, in 2013 some social media was banned in Turkey after the Taksim Gezi Park protests. Both Twitter and YouTube were temporarily suspended in the country by a court's decision. A new law, passed by Turkish Parliament, has granted immunity to Telecommunications Directorate (TİB) personnel. The TİB was also given the authority to block access to specific websites without the need for a court order. [230] Yet TİB's 2014 blocking of Twitter was ruled by the constitutional court to violate free speech. [231] More recently, in the 2014 Thai coup d'état, the public was explicitly instructed not to 'share' or 'like' dissenting views on social media or face prison. In July of that same year, in response to WikiLeaks'



Banner in Bangkok, observed on June 30, 2014, informing the Thai public that 'like' or 'share' activity on social media may land them in jail

release of a secret suppression order made by the <u>Victorian Supreme Court</u>, media lawyers were quoted in the <u>Australian</u> media to the effect that "anyone who tweets a link to the WikiLeaks report, posts it on Facebook, or shares it in any way online could also face charges". [232]

# Decentralization and open standards

Mastodon, GNU social, Diaspora, Friendica and other compatible software packages operate as a loose federation of mostly volunteer-operated servers, called the Fediverse, which connect with each other through the open source protocol ActivityPub. In early 2019, Mastodon successfully blocked the spread of violent right-wing extremism when the Twitter alternative Gab tried to associate with Mastodon, and their independent servers quickly contained its dissemination. [233]

In December 2019, Twitter CEO <u>Jack Dorsey</u> made a similar suggestion, stating that efforts would be taken to achieve an "open and decentralized standard for social media". Rather than "deplatforming", such standards would allow a more scalable, and customizable approach to content moderation and censorship, and involve a number of companies, in the way that e-mail servers work.

## **Deplatforming**

<u>Deplatforming</u> is a form of Internet censorship in which controversial speakers or speech are suspended, banned, or otherwise shut down by social media platforms and other service providers that normally provide a venue for free expression.<sup>[234]</sup> As early as 2015, platforms such as <u>Reddit</u> began to enforce selective bans based, for example, on terms of service that prohibit "hate speech".<sup>[235]</sup> According to

technology journalist <u>Declan McCullagh</u>, "Silicon Valley's efforts to pull the plug on dissenting opinions" have included, as of 2018, Twitter, Facebook, and YouTube "devising excuses to suspend ideologically disfavored accounts." [236]

Law professor Glenn Reynolds dubbed 2018 the "Year of Deplatforming", in an August 2018 article in *The Wall Street Journal*. According to Reynolds, in 2018 "the internet giants decided to slam the gates on a number of people and ideas they don't like. If you rely on someone else's platform to express unpopular ideas, especially ideas on the right, you're now at risk. Reynolds cited Alex Jones, Gavin McInnes and Dennis Prager as prominent 2018 victims of deplatforming based on their political views, noting, Extremists and controversialists on the left have been relatively safe from deplatforming." [234]

## **Reproduction of Class Distinctions**

According to Danah Boyd's, "White Flight in Networked Publics? How Race and Class Shaped American Teen Engagement with MySpace and Facebook," the media plays a large role in shaping people's perceptions of specific social networking sites. When looking at the site MySpace, after adults started to realize how popular the sight was becoming with teens, news media became heavily concerned with teen participation and the potential dangers they faced using the site. As a result, teens avoided joining the site because of the associated risks (e.g. child predators and lack of control) and parents began to publicly denounce the site. Ultimately, the site was labeled as dangerous, and many were detracted from interacting with the site. As boyd also describes, when Facebook initially launched in 2004, it solely targeted college students and access was intentionally limited. Facebook started as a Harvard-only social networking site before expanding to all other Ivy League schools. It then made its way to other top universities and ultimately to a wider range of schools. Because of its origins, some saw Facebook as an "elite" social networking site. While it was very open and accepting to some, it seemed to outlaw and shun out most others who didn't fit that "elite" categorization. These narratives propagated by the media influenced the large movement of teenage users from one social networking site to another. [237]

## See also

- Arab Spring § Social media
- Augmented reality
- Citizen media
- Coke Zero Facial Profiler
- Connectivism (learning theory)
- Connectivity (media)
- Culture jamming
- Deplatforming
- Human impact of Internet use
- Internet politics
- List of photo sharing websites
- List of video sharing websites
- List of social bookmarking websites
- List of social networking websites

- Media psychology
- Metcalfe's law
- MMORPG
- Networked learning
- New media
- Online presence management
- Online research community
- Participatory media
- Social media marketing
- Social media mining
- Social media optimization
- Social media surgery
- Social media detoxification

# References

- Kietzmann, Jan H.; Kristopher Hermkens (2011). "Social media? Get serious! Understanding the functional building blocks of social media" (http://summit.sfu.ca/item/18103). Business Horizons (Submitted manuscript). 54 (3): 241–251. doi:10.1016/j.bushor.2011.01.005 (https://doi.org/10.1016%2Fj.bushor.2011.01.005).
- Obar, Jonathan A.; Wildman, Steve (2015). "Social media definition and the governance challenge: An introduction to the special issue". *Telecommunications Policy*. 39 (9): 745–750. doi:10.1016/j.telpol.2015.07.014 (https://doi.org/10.1016%2Fj.telpol.2015.07.014). SSRN 2647377 (https://ssrn.com/abstract=2647377).
- 3. Kaplan Andreas M.; Haenlein Michael (2010). "Users of the world, unite! The challenges and opportunities of social media" (https://web.archive.org/web/20111124233421/http://michaelhaenlein.e u/Publications/Kaplan,%20Andreas%20-%20Users%20of%20the%20world,%20unite.pdf) (PDF). Business Horizons. 53 (1): 61. doi:10.1016/j.bushor.2009.09.003 (https://doi.org/10.1016%2Fj.bushor.2009.09.003). Archived from the original (http://michaelhaenlein.eu/Publications/Kaplan,%20Andreas%20-%20Users%20of%20the%20world,%20unite.pdf) (PDF) on 2011-11-24. Retrieved 2016-12-07.
- 4. boyd, danah m.; Ellison, Nicole B. (2007). "Social Network Sites: Definition, History, and Scholarship". *Journal of Computer-Mediated Communication*. **13** (1): 210–30. doi:10.1111/j.1083-6101.2007.00393.x (https://doi.org/10.1111%2Fj.1083-6101.2007.00393.x).
- 5. Agichtein, Eugene; Carlos Castillo. Debora Donato; Aristides Gionis; Gilad Mishne (2008). "Finding high-quality content in social media" (http://184pc128.csie.ntnu.edu.tw/presentation/09-03-09/Finding%20High-Quality%20Content%20in%20Social%20Media.pdf) (PDF). WISDOM Proceedings of the 2008 International Conference on Web Search and Data Mining: 183–193.
- Pavlik & MacIntoch, John and Shawn (2015). Converging Media 4th Edition. New York, NY: Oxford University Press. p. 189. ISBN 978-0-19-934230-3.
- 7. "The definitive history of social media" (https://www.dailydot.com/debug/history-of-social-media/). *The Daily Dot.* online. September 11, 2016. Retrieved 2018-02-05.
- 8. Stacy, Christopher C. (September 7, 1982). "Getting Started Computing at the Al Lab" (https://dspace.mit.edu/bitstream/handle/1721.1/41180/ai\_wp\_235.pdf?sequence=4) (PDF). MIT Artificial Intelligence Laboratory. Archived (https://web.archive.org/web/20190323132534/https://dspace.mit.edu/bitstream/handle/1721.1/41180/Al\_WP\_235.pdf?sequence=4) (PDF) from the original on 2019-03-23.
- 9. Cerf, Vinton; Dalal, Yogen; Sunshine, Carl (December 1974), RFC 675 (https://tools.ietf.org/html/rfc6 75), Specification of Internet Transmission Control Protocol
- 10. Benj Edwards (November 4, 2016). <u>"The Lost Civilization of Dial-Up Bulletin Board Systems" (https://www.theatlantic.com/technology/archive/2016/11/the-lost-civilization-of-dial-up-bulletin-board-system s/506465/)</u>. *The Atlantic*. online. Retrieved 2018-02-05.
- 11. "CMOS Sensors Enable Phone Cameras, HD Video" (https://spinoff.nasa.gov/Spinoff2017/cg\_1.htm I). NASA Spinoff. NASA. Retrieved 6 November 2019.
- 12. Fossum, Eric R. (12 July 1993). Blouke, Morley M. (ed.). "Active pixel sensors: are CCDs dinosaurs?". SPIE Proceedings Vol. 1900: Charge-Coupled Devices and Solid State Optical Sensors III. International Society for Optics and Photonics. 1900: 2–14. Bibcode:1993SPIE.1900....2F (https://ui.adsabs.harvard.edu/abs/1993SPIE.1900....2F). CiteSeerX 10.1.1.408.6558 (https://citeseerx.ist.ps u.edu/viewdoc/summary?doi=10.1.1.408.6558). doi:10.1117/12.148585 (https://doi.org/10.1117%2F1 2.148585).
- 13. Matsumoto, Kazuya; et al. (1985). "A new MOS phototransistor operating in a non-destructive readout mode". *Japanese Journal of Applied Physics*. **24** (5A): L323. Bibcode:1985JaJAP..24L.323M (https://ui.adsabs.harvard.edu/abs/1985JaJAP..24L.323M). doi:10.1143/JJAP.24.L323 (https://doi.org/10.1143%2FJJAP.24.L323).
- 14. Fossum, Eric R.; Hondongwa, D. B. (2014). "A Review of the Pinned Photodiode for CCD and CMOS Image Sensors". IEEE Journal of the Electron Devices Society. 2 (3): 33–43. doi:10.1109/JEDS.2014.2306412 (https://doi.org/10.1109%2FJEDS.2014.2306412).

- 15. "What Is a JPEG? The Invisible Object You See Every Day" (https://www.theatlantic.com/technology/archive/2013/09/what-is-a-jpeg-the-invisible-object-you-see-every-day/279954/). *The Atlantic*. 24 September 2013. Retrieved 13 September 2019.
- Stefan, Brüggemann (2012). Collaboration and the Semantic Web: Social Networks, Knowledge Networks, and Knowledge Resources: Social Networks, Knowledge Networks, and Knowledge Resources (https://books.google.com/books?id=yqOeBQAAQBAJ&pg=PA105). IGI Global. pp. 104–5. ISBN 9781466608955.
- 17. Belmudez, Benjamin (2014). *Audiovisual Quality Assessment and Prediction for Videotelephony* (https://books.google.com/books?id=ULTzBQAAQBAJ&pg=PA13). Springer. pp. 11–13. ISBN 9783319141664.
- 18. Huang, Hsiang-Cheh; Fang, Wai-Chi (2007). *Intelligent Multimedia Data Hiding: New Directions* (https://books.google.com/books?id=67W5BQAAQBAJ&pg=PA41). Springer. p. 41. ISBN 9783540711698.
- 19. Ahmed, Nasir (January 1991). "How I Came Up With the Discrete Cosine Transform" (https://www.sc\_ribd.com/doc/52879771/DCT-History-How-I-Came-Up-with-the-Discrete-Cosine-Transform). Digital Signal Processing. 1 (1): 4–5. doi:10.1016/1051-2004(91)90086-Z (https://doi.org/10.1016%2F1051-2004%2891%2990086-Z).
- 20. Hudson, Graham; Léger, Alain; Niss, Birger; Sebestyén, István; Vaaben, Jørgen (31 August 2018). "JPEG-1 standard 25 years: past, present, and future reasons for a success". *Journal of Electronic Imaging*. 27 (4): 1. doi:10.1117/1.JEI.27.4.040901 (https://doi.org/10.1117%2F1.JEI.27.4.040901).
- 21. Pessina, Laure-Anne (12 December 2014). "JPEG changed our world" (https://actu.epfl.ch/news/jpeg -changed-our-world/). EPFL News. École Polytechnique Fédérale de Lausanne. Retrieved 13 September 2019.
- 22. "JPEG changed our world" (https://phys.org/news/2014-12-jpeg-world.html). *Phys.org*. 12 December 2014. Retrieved 13 September 2019.
- 23. "Then and now: a history of social networking sites" (https://www.cbsnews.com/pictures/then-and-now-a-history-of-social-networking-sites/2/). www.cbsnews.com. CBS news. Retrieved 2018-01-26.
- 24. "Then and now: a history of social networking sites" (https://www.cbsnews.com/pictures/then-and-now-a-history-of-social-networking-sites/). CBS News. online. February 4, 2014. Retrieved 2018-02-05.
- 25. "History and Different Types of Social Media" (http://scalar.usc.edu/works/everything-you-always-wan ted-to-know-about-social-media-but-were-too-afraid-to-ask/history-and-different-types-of-social-media). University of Southern California. online. Retrieved 2018-02-05.
- 26. Barbara Ortutay (May 19, 2012). "Beyond Facebook: A look at social network history" (https://www.y ahoo.com/news/beyond-facebook-look-social-network-history-211927663--finance.html/). Associated Press. online. Retrieved 2018-05-11.
- 27. Aichner, T.; Jacob, F. (March 2015). "Measuring the Degree of Corporate Social Media Use" (https://www.researchgate.net/publication/283073224). International Journal of Market Research. 57 (2): 257–275. doi:10.2501/IJMR-2015-018 (https://doi.org/10.2501%2FIJMR-2015-018).
- 28. Schejter, A.M.; Tirosh, N. (2015). ""Seek the meek, seek the just": Social media and social justice". *Telecommunications Policy.* **39** (9): 796–803. <a href="doi:10.1016/j.telpol.2015.08.002">doi:10.1016/j.telpol.2015.08.002</a> (https://doi.org/10.1016%2Fj.telpol.2015.08.002).
- 29. "Definition of SOCIAL MEDIA" (https://www.merriam-webster.com/dictionary/social%20media).
- 30. Kirkpatrick, David (2011). The Facebook effect: the real inside story of Mark Zuckerberg and the world's fastest-growing company. London: Virgin.
- 31. Nielsen Company. "Social Networks Blogs Now Account for One in Every Four and a Half Minutes Online" (http://www.nielsen.com/us/en/insights/news/2010/social-media-accounts-for-22-percent-of-time-online.html). *Nielsen*. Retrieved 2015-04-30.
- 32. Metzger, Justin (April 4, 2016). "Cell phones" (http://marketingland.com/facebook-usage-accounts-1-5-minutes-spent-mobile-171561).

- 33. O'Keeffe, Gwenn Schurgin; Clarke-Pearson, Kathleen; Media, Council on Communications and (April 1, 2011). "The Impact of Social Media on Children, Adolescents, and Families" (http://pediatrics.aapp ublications.org/content/127/4/800). Pediatrics. 127 (4): 800–804. doi:10.1542/peds.2011-0054 (https://doi.org/10.1542%2Fpeds.2011-0054). ISSN 0031-4005 (https://www.worldcat.org/issn/0031-4005). PMID 21444588 (https://pubmed.ncbi.nlm.nih.gov/21444588).
- 34. Kaplan, Andreas M. (March–April 2012). "If you love something, let it go mobile: Mobile marketing and mobile social media 4x4". *Business Horizons*. **55** (2): 129–139. doi:10.1016/j.bushor.2011.10.009 (https://doi.org/10.1016%2Fj.bushor.2011.10.009).
- 35. Ghosh, Rumi (June 2011). "Entropy-based Classification of 'Retweeting' Activity on Twitter". arXiv:1106.0346 (https://arxiv.org/abs/1106.0346) [cs.SI (https://arxiv.org/archive/cs.SI)].
- 36. Castronovo, Cristina (2012). "Social Media in Alternative Marketing Communication Model". *Journal of Marketing Development & Competitivness.* **6**: 117–136.
- 37. "the definition of bots" (http://www.dictionary.com/browse/bots?s=t). *Dictionary.com.* Retrieved 2017-05-11.
- 38. Rodrigo, S. and Abraham, J. (2012). Development and Implementation of a Chat Bot in a Social Network. *2012 Ninth International Conference on Information Technology New Generations*.
- 39. "Global chatbot market 2015-2024 | Statistic" (https://www.statista.com/statistics/656596/worldwide-c hatbot-market/). Statista. Retrieved 2017-05-11.
- 40. Baym, Nancy K. (October 7, 2013). "Data Not Seen: The uses and shortcomings of social media metrics" (http://firstmonday.org/ojs/index.php/fm/article/view/4873/3752). First Monday. 18 (10). doi:10.5210/fm.v18i10.4873 (https://doi.org/10.5210%2Ffm.v18i10.4873).
- 41. "Terms of Use I Instagram Help Center" (https://help.instagram.com/478745558852511). help.instagram.com. Retrieved 2017-06-26.
- 42. Stone-Gross, B.; Holz, T.; Stringhini, G.; Vigna, G. (2011). "The Underground Economy of Spam: A Botmaster's Perspective of Coordinating Large-Scale Spam Campaigns" (http://static.usenix.org/events/leet11/tech/full\_papers/Stone-Gross.pdf) (PDF). LEET. 11: 4.
- 43. House, A. (2014). The Real Cyborgs. Retrieved from: <a href="http://s.telegraph.co.uk/graphics/projects/the-future-is-android/">http://s.telegraph.co.uk/graphics/projects/the-future-is-android/</a>
- 44. Schreckinger, B.,. "Inside Trump's 'cyborg' Twitter army" (http://www.politico.com/story/2016/09/donal d-trump-twitter-army-228923), *Politico*, September 30, 2016 (retrieved May 10, 2017)
- 45. Chu, Z.; Gianvecchio, S.; Wang, H.; Jajodia, S. (2012). "Detecting automation of Twitter accounts: Are you a human, bot, or cyborg?". *IEEE Transactions on Dependable and Secure Computing*. **9** (6): 811–824. doi:10.1109/tdsc.2012.75 (https://doi.org/10.1109%2Ftdsc.2012.75).
- 46. "Mark Nowotarski, "Do not Steal My Avatar! Challenges of Social Network Patents, IP Watchdog, January 23, 2011" (http://ipwatchdog.com/2011/01/23/don't-steal-my-avatar-challenges-of-social-net working-patents/id=14531/). Ipwatchdog.com. January 23, 2011. Retrieved 2012-04-24.
- 47. "USPTO search on published patent applications mentioning "social media" (http://appft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahtml%2FPTO%2Fsearch-adv.html&r=0&p=1&f=S&l=50&Query=spec%2F%22social+media%22&d=PG01). Appft.uspto.gov. Retrieved 2012-04-24.
- 48. "USPTO search on issued patents mentioning "social media" (http://patft.uspto.gov/netacgi/nph-Par ser?Sect1=PTO2&Sect2=HITOFF&u=%2Fnetahtml%2FPTO%2Fsearch-adv.htm&r=0&p=1&f=S&l=5 0&Query=spec%2F%22social+media%22&d=PTXT). Patft.uspto.gov. Retrieved 2012-04-24.
- 49. "Number of social media users worldwide 2010-2021 | Statista" (https://www.statista.com/statistics/27 8414/number-of-worldwide-social-network-users/). *Statista*. Retrieved 2018-06-13.
- 50. https://wearesocial.com/blog/2020/01/digital-2020-3-8-billion-people-use-social-media#:~:text=Our%20new%20Digital%202020%20reports,passed%20the%203.8%20billion%20mar
- 51. "Most popular social networks worldwide as of April 2020, ranked by number of active users (in millions)" (https://www.statista.com/statistics/272014/global-social-networks-ranked-by-number-of-us ers/). Statista. Retrieved 2019-08-13.

- 52. "Social Media Use 2018: Demographics and Statistics I Pew Research Center" (https://web.archive.org/web/20181024183540/http://www.pewinternet.org/2018/03/01/social-media-use-in-2018/). March 2018. Archived from the original (http://www.pewinternet.org/2018/03/01/social-media-use-in-2018/) on 2018-10-24. Retrieved 2018-10-24.
- 53. Wagner, Kurt (March 1, 2018). "Facebook is not getting any bigger in the United States" (https://www.recode.net/2018/3/1/17063208/facebook-us-growth-pew-research-users). *Recode*. Retrieved 2019-03-14.
- 54. Khan, Gohar F. (2017). Social Media for Government: A Practical Guide to Understanding, Implementing, and Managing Social Media Tools in the Public Sphere (https://books.google.com/books?id=rT0jDgAAQBAJ). SpringerBriefs in Political Science. Singapore: Springer. ISBN 9789811029424. Retrieved 2019-04-28.
- 55. Meske, Christian; Stieglitz, Stefan (2014-01-15). "Reflektion der wissenschaftlichen Nutzenbetrachtung von Social Software / Reflecting the Scientific Discussion of Benefits Induced by Social Software". *I-com.* 13 (3). doi:10.1515/icom.2014.0015 (https://doi.org/10.1515%2Ficom.2014.0015). ISSN 2196-6826 (https://www.worldcat.org/issn/2196-6826).
- 56. Kaplan, Andreas M.; Haenlein, Michael (2010). "Users of the world, unite! The challenges and opportunities of social media" (http://michaelhaenlein.eu/Publications/Kaplan,%20Andreas%20-%20 Users%20of%20the%20world,%20unite.pdf) (PDF). Business Horizons. Bloomington, Indiana: Kelley School of Business. 53 (1): 64–65. doi:10.1016/j.bushor.2009.09.003 (https://doi.org/10.1016%2Fj.bushor.2009.09.003). Retrieved 2019-04-28. "Social Media is a very active and fast-moving domain. What may be up-to-date today could have disappeared from the virtual landscape tomorrow. It is therefore crucial for firms to have a set of guidelines that can be applied to any form of Social Media [...]."
- 57. Lugmayr, Artur (2013). "Predicting the Future of Investor Sentiment with Social Media in Stock Exchange Investments: A Basic Framework for the DAX Performance Index". *Handbook of Social Media Management*. Springer Berlin Heidelberg: 565–589. doi:10.1007/978-3-642-28897-5\_33 (https://doi.org/10.1007%2F978-3-642-28897-5\_33). ISBN 978-3-642-28896-8.
- 58. "5 Indirect Ways Building Social Authority Improves Your Brand" (https://www.business2community.c om/branding/5-indirect-ways-building-social-authority-improves-your-brand-0368379). *Business 2 Community*. Retrieved 2019-05-03.
- 59. "Research Survey" (http://mprcenter.org/blog/2010/08/04/research-survey-launched-social-media-an d-influence-of-photos-on-body-image/). Mprcenter.org. Retrieved 2012-04-24. "One of the tenets of social media is that you can't control your message, you can only participate in the conversation."
- 60. Leaver, Tama (May 2013). "The Social Media Contradiction: Data Mining and Digital Death" (http://journal.media-culture.org.au/index.php/mcjournal/article/viewArticle/625). *M/C Journal.* **16** (2). Retrieved 2018-06-20.
- 61. Wellman, Barry (2012). Networked: The New Social Operating System. MIT. ISBN 978-0-262-01719-0.
- 62. Rosen, Jay. "The People Formally Known as the Audience" (http://archive.pressthink.org/2006/06/27/ppl\_frmr.html). *PressThink*. Retrieved 2015-01-27.
- 63. Philip Pond and Jeff Lewis. 2019. "Riots and Twitter: Connective Politics, Social Media, and Framing Discourses in the Digital Space. Information, Communication & Society. V22, N2, 213-231
- 64. Newman, N.; Levy, D. (2013). "Reuters Institute Digital News Report 2013" (https://web.archive.org/web/20131207045914/https://reutersinstitute.politics.ox.ac.uk/fileadmin/documents/Publications/Working\_Papers/Digital\_News\_Report\_2013.pdf) (PDF). reutersinstitute.politics.ox.ac.uk. Archived from the original (https://reutersinstitute.politics.ox.ac.uk/fileadmin/documents/Publications/Working\_Papers/Digital\_News\_Report\_2013.pdf) (PDF) on 2013-12-07.
- 65. Rodolfo Leyva. "Exploring UK Millennials' Social Media Consumption Patterns and Participation in Elections, Activism, and 'Slacktivism'" in Social Sciences Computer Review. Vol. 35(4) 462-479
- 66. Anderson, Nate; Technica, Ars (January 14, 2011). "Tweeting Tyrants Out of Tunisia: Global Internet at Its Best" (https://www.wired.com/threatlevel/2011/01/tunisia/). Wired.

- 67. Kirkpatrick, David D. (February 9, 2011). "Wired and Shrewd, Young Egyptians Guide Revolt" (https://www.nytimes.com/2011/02/10/world/middleeast/10youth.html?\_r=1). The New York Times.
- 68. "The Arab Uprising's Cascading Effects" (https://web.archive.org/web/20110227051329/http://www.miller-mccune.com/politics/the-cascading-effects-of-the-arab-spring-28575/). Miller-mccune.com. February 23, 2011. Archived from the original (http://www.miller-mccune.com/politics/the-cascading-effects-of-the-arab-spring-28575/) on 2011-02-27. Retrieved 2012-04-24.
- 69. Gladwell, Malcolm (March 1, 2011). "Malcolm Gladwell and Clay Shirky on Social Media and Revolution, Foreign Affairs March/April 2011" (http://www.foreignaffairs.com/articles/67325/malcolm-gladwell-and-clay-shirky/from-innovation-to-revolution). Foreign Affairs (March/April 2011). Retrieved 2012-04-24.
- 70. Victoria A. Dounoucos; D. Sunshine Hillygus; Caroline Carlson (2019). "The Message and the Medium: An Experimental Evaluation of the Effects of Twitter Commentary on Campaign Messages". *Journal of Information Technology and Politics*. **16** (1): 66–76. doi:10.1080/19331681.2019.1572566 (https://doi.org/10.1080%2F19331681.2019.1572566).
- 71. Glenn W. Richardson, Jr., ed. Social Media and Politics: A New Way to Participate in the Political Process. Volume 1. Praeger, Santa Barbara, California, 2017.
- 72. Mauro Barisione and Asimina Michailidou, eds. "Do We Need to Rethink EU Politics in the Social Media Era?" in Social Media and European Politics, New York: Palgrave. Pages 1-23, 2017.
- 73. Shirky, Clay (2011). "Technology, the Public Sphere, and Political Change" (https://www.foreignaffair s.com/articles/2010-12-20/political-power-social-media). Foreign Affairs. **90** (1). Retrieved 2018-08-04.
- 74. P.W. Singer and Emerson T. Brooking. Like War: The Weaponization of Social Media. Houghton Mifflin, NY, 2018.
- 75. Ajbaili, Mustapha (June 24, 2014). "How ISIS conquered social media" (http://english.alarabiya.net/en/media/digital/2014/06/24/How-has-ISIS-conquered-social-media-.html). *Al Arabiya News*.
- 76. Proofpoint, Inc. (January 17, 2018). "Q4 2016 & Year in Review: Threat Summary" (https://www.proofpoint.com/sites/default/files/pfpt-us-tr-q417-threat-report-180117.pdf) (PDF). *Proofpoint*.
- 77. Marche, S. (2012). "Is Facebook Making Us Lonely?" (https://www.theatlantic.com/magazine/archive/2012/05/is-facebook-making-us-lonely/308930/). The Atlantic. Retrieved 2013-07-12.
- 78. Burke for Silicon Republic, Elaine (May 30, 2013). "1 in 10 young people losing out on jobs because of pics and comments on social media" (http://www.siliconrepublic.com/careers/item/32880-1-in-10-young-people-losing).
- 79. "ACLU-MN Files Lawsuit Against Minnewaska Area Schools" (https://www.aclu-mn.org/news/2012/0 3/06/aclu-mn-files-lawsuit-against-minnewaska-area-schools). www.aclu-mn.org. March 2017. Retrieved 2016-11-30.
- 80. "Employers, Schools, and Social Networking Privacy" (https://www.aclu.org/other/employers-schools-and-social-networking-privacy). *American Civil Liberties Union*. Retrieved 2016-11-30.
- 81. Leenheer, Jorna; van Heerde, Harald J.; Bijmolt, Tammo H. A.; Smidts, Ale (March 1, 2007). "Do loyalty programs really enhance behavioral loyalty? An empirical analysis accounting for self-selecting members". *International Journal of Research in Marketing*. **24** (1): 31–47.

  CiteSeerX 10.1.1.632.183 (https://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.632.183). doi:10.1016/j.ijresmar.2006.10.005 (https://doi.org/10.1016%2Fj.ijresmar.2006.10.005).
- 82. "Kaplan Test Prep Online Pressroom » Kaplan Test Prep Survey: More College Admissions Officers Checking Applicants' Digital Trails, But Most Students Unconcerned" (http://press.kaptest.com/press-releases/kaplan-test-prep-survey-more-college-admissions-officers-checking-applicants-digital-trails-but-most-students-unconcerned/). *kaptest.com*. October 31, 2013.
- 83. Joshua Brunty & Katherine Helenek (2014). Social Media Investigation for Law Enforcement (https://www.google.com/books/edition/Social\_Media\_Investigation\_for\_Law\_Enfor/6hygBAAAQBAJ). Taylor & Francis.

- 84. Caroline Sturdy Colls & Stephen J. Morewitz, eds. (2016). *Handbook of Missing Persons*. Springer International. p. 97, 102, 164.
- 85. Perez, Kaitlyn (June 30, 2017). "Social Media Has Become a Critical Part of Law Enforcement" (http s://www.policefoundation.org/social-media-has-become-a-critical-part-of-law-enforcement/). National Police Foundation.
- 86. Christopher J. Schneider (2015). "Police "Image Work" in an Era of Social Media" YouTube and 2007 Montebello Summit Protests" (https://www.google.com/books/edition/Social\_Media\_Politics\_and\_the \_\_State/E28KBAAAQBAJ). Social Media, Politics and the StateProtests, Revolutions, Riots, Crime and Policing in the Age of Facebook, Twitter and YouTube. Routledge Research in Information Technology and Society. Routledge. pp. 229–30.
- 87. Funk, McKenzie (2019-10-02). "How ICE Picks Its Targets in the Surveillance Age" (https://www.nytimes.com/2019/10/02/magazine/ice-surveillance-deportation.html). The New York Times. ISSN 0362-4331 (https://www.worldcat.org/issn/0362-4331). Retrieved 2019-10-22.
- 88. "Social Media Monitoring" (https://www.brennancenter.org/our-work/research-reports/social-media-monitoring). Brennan Center for Justice. pp. 255–57.
- 89. "5 Court Cases Where Social Media Played a Part" (https://www.blogherald.com/2017/08/24/5-court-cases-social-media-played-part/). *Blog Herald.* August 24, 2017. Retrieved 2018-10-27.
- 90. Raymer, Elizabeth (September 24, 2018). "The (social media) evidence is clear" (https://www.canadianlawyermag.com/author/elizabeth-raymer/the-social-media-evidence-is-clear-16126/).

  www.canadianlawyermag.com. Canadian Lawyer. Retrieved 2018-10-27.
- 91. "Most famous social network sites worldwide as of January 2018, ranked by number of active users (in millions)" (https://www.statista.com/statistics/272014/global-social-networks-ranked-by-number-of-users/). Statista. Retrieved 2018-03-07.
- 92. Chaffey, Dave; Ellis-Chadwick, Fiona (2012). *Digital Marketing* (5th ed.). Pearson. pp. 30–31. ISBN 978-0-273-74610-2.
- 93. Shu-Chuan, Chu (2011). "VIRAL ADVERTISING IN SOCIAL MEDIA: PARTICIPATION IN FACEBOOK GROUPS AND RESPONSES AMONG COLLEGE-AGED USERS" (https://is.muni.cz/el/1423/podzim2013/ZUR589b/um/SM\_W8\_Facebook\_Viral\_Advertising.pdf) (PDF). Journal of Interactive Advertising. 12 (1): 32. Retrieved 2018-03-07.
- 94. Sorescu, Alina; Frambach, Ruud T.; Singh, Jagdip; Rangaswamy, Arvind; Bridges, Cheryl (July 2011). "Innovations in Retail Business Models". *Journal of Retailing*. **87**: S3–S16. doi:10.1016/j.jretai.2011.04.005 (https://doi.org/10.1016%2Fj.jretai.2011.04.005).
- 95. Newman, Daniel. "Love It Or Hate It: Influencer Marketing Works" (https://www.forbes.com/sites/danielnewman/2015/06/23/love-it-or-hate-it-influencer-marketing-works/#5718a249150b).

  www.forbes.com. Forbes. Retrieved 2017-11-11.
- 96. Dunkley, Lydia. "Reaching The Zolom's Children: Harnessing the Power of Digital Influencers in Film Publicity" (http://promotionalcommunications.org/index.php/pc/article/download/85/108). *Journal of Promotional Communications*. Retrieved 2017-11-11.
- 97. Jenner, Kylie (December 27, 2016). "Kylie on Instagram" (https://www.instagram.com/p/BOhIX\_IBel n/) [@kyliejenner]. Instagram. "#ad Obsessed with my new @fashionnova jeans Get them at FashionNova.com (9)"
- 98. "INFLUENCER I definition in the Cambridge English Dictionary" (https://dictionary.cambridge.org/us/dictionary/english/influencer). dictionary.cambridge.org. Retrieved 2019-01-25.
- 99. Hardy, Kevin (June 18, 2018). "Wendy's Roasts its Way to Social Media Stardom" (https://www.qsrmagazine.com/exclusives/wendys-roasts-its-way-social-media-stardom). qsrmagazine.com. Retrieved 2018-06-18.

- 00. Linnea, Laestadius; Wahl, Megan; Pokhrel, Pallav; Cho, Young (2019). "From Apple to Werewolf: A content analysis of marketing for e-liquids on Instagram" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6358470). Addictive Behaviors. 91: 119–127. doi:10.1016/j.addbeh.2018.09.008 (https://doi.org/10.1016%2Fj.addbeh.2018.09.008). PMC 6358470 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6358470). PMID 30253933 (https://pubmed.ncbi.nlm.nih.gov/30253933).
- 01. Wang, Xia; Yu, Chunling; Wei, Yujie (November 2012). "Social Media Peer Communication and Impacts on Purchase Intentions: A Consumer Socialization Framework" (http://isiarticles.com/bundles/Article/pre/pdf/78294.pdf) (PDF). Journal of Interactive Marketing. 26 (4): 198–208. doi:10.1016/j.intmar.2011.11.004 (https://doi.org/10.1016%2Fj.intmar.2011.11.004). Archived (https://web.archive.org/web/20171215053717/http://isiarticles.com/bundles/Article/pre/pdf/78294.pdf) (PDF) from the original on 2017-12-15.
- Haustein, Stefanie (2016). "Grand challenges in altmetrics: Heterogeneity, data quality and dependencies". Scientometrics. 108: 413–423. arXiv:1603.04939 (https://arxiv.org/abs/1603.04939). Bibcode:2016arXiv160304939H (https://ui.adsabs.harvard.edu/abs/2016arXiv160304939H). doi:10.1007/s11192-016-1910-9 (https://doi.org/10.1007%2Fs11192-016-1910-9).
- 03. Lewoniewski, Włodzimierz; Härting, Ralf-Christian; Węcel, Krzysztof; Reichstein, Christopher; Abramowicz, Witold (August 29, 2018). "Application of SEO Metrics to Determine the Quality of Wikipedia Articles and Their Sources" (https://www.researchgate.net/publication/327265925). Communications in Computer and Information Science. 920: 139–152. doi:10.1007/978-3-319-99972-2\_11 (https://doi.org/10.1007%2F978-3-319-99972-2\_11). ISBN 978-3-319-99972-2.
- 04. Bakshy, E.; Messing, S.; Adamic, L. A. (2015). "Exposure to ideologically diverse news and opinion on Facebook" (http://science.sciencemag.org/content/sci/348/6239/1130.full.pdf) (PDF). Science. 348 (6239): 1130–1132. Bibcode:2015Sci...348.1130B (https://ui.adsabs.harvard.edu/abs/2015Sci...348.1 130B). doi:10.1126/science.aaa1160 (https://doi.org/10.1126%2Fscience.aaa1160). PMID 25953820 (https://pubmed.ncbi.nlm.nih.gov/25953820).
- 05. Jha, Rajesh Kumar; Shah, Dev Kumar; Basnet, Sangharshila; Paudel, Keshab Raj; Sah, Phoolgen; Sah, Ajit Kumar; Adhikari, Kishor (2016). "Facebook use and its effects on the life of health science students in a private medical college of Nepal" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC49703 01). BMC Research Notes. 9: 378. doi:10.1186/s13104-016-2186-0 (https://doi.org/10.1186%2Fs131 04-016-2186-0). PMC 4970301 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4970301). PMID 27485717 (https://pubmed.ncbi.nlm.nih.gov/27485717).
- 06. Sumbaly, R., Kreps, J., & Shah, S. (2013). The big data ecosystem at linkedin (http://web.cs.wpi.edu/~cs525/f13b-EAR/cs525-homepage/lectures/PAPERS/p1125-sumbaly.pdf). In Proceedings of the 2013 ACM SIGMOD International Conference on Management of Data (pp. 1125-1134). ACM.]
- 07. Guillory, J.; Hancock, J. T. (2012). "The effect of Linkedin on deception in resumes" (https://www.rese archgate.net/publication/221833511). *Cyberpsychology, Behavior, and Social Networking.* **15** (3): 135–140. doi:10.1089/cyber.2011.0389 (https://doi.org/10.1089%2Fcyber.2011.0389). PMID 22335544 (https://pubmed.ncbi.nlm.nih.gov/22335544).
- 08. "Survey: More Americans get news from Internet than newspapers or radio" (http://www.cnn.com/201 0/TECH/03/01/social.network.news/index.html). cnn.com.
- 09. Rainie, Lee & Wellman, Barry (April 27, 2012). *Networked: The New Social Operating System* (https://books.google.com/books?id=bYJGna0AhdAC). ISBN 978-0-262-30040-7.
- Pew Research Center, 2019. Oct, 2nd. "Americans Are Wary of the Role Social Media Sites Play in Delivering the News." <a href="https://www.journalism.org/2019/10/02/americans-are-wary-of-the-role-social-media-sites-play-in-delivering-the-news/">https://www.journalism.org/2019/10/02/americans-are-wary-of-the-role-social-media-sites-play-in-delivering-the-news/</a>
- 11. Hemsley, Jeff; Jacobson, Jenna; Gruzd, Anatoliy; Mai, Philip (July 2018). "Social Media for Social Good or Evil: An Introduction". *Social Media + Society*. **4** (3): 205630511878671. doi:10.1177/2056305118786719 (https://doi.org/10.1177%2F2056305118786719). ISSN 2056-3051 (https://www.worldcat.org/issn/2056-3051).

- 12. ACUNA, Tanja (2018-04-25). <u>"The digital transformation of news media and the rise of disinformation and fake news" (https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/digital-transformation-news-media-and-rise-disinformation-and-fake-news)</u>. *EU Science Hub European Commission*. Retrieved 2020-02-23.
- 13. Kitch, Carolyn (2002). "Anniversary Journalism, Collective Memory, and the Cultural Authority to Tell the Story of the American Past" (https://semanticscholar.org/paper/b9e8cc52035eb9248213d8830c1 aa48321463ae8). *Journal of Popular Culture*. **36**: 44–67. doi:10.1111/1540-5931.00030 (https://doi.org/10.1111%2F1540-5931.00030).
- 14. Edy, Jill (1999). "Journalistic Uses of Collective Memory". *Journal of Communication*. **49** (2): 71–85. doi:10.1111/j.1460-2466.1999.tb02794.x (https://doi.org/10.1111%2Fj.1460-2466.1999.tb02794.x).
- 15. Pajala, Mary (2012). "Television as an Archive of Memory?". *Critical Studies in Television*. **5** (2): 133–145. doi:10.7227/cst.5.2.16 (https://doi.org/10.7227%2Fcst.5.2.16).
- 16. Motti Neiger, Oren Meyers and Eyal Zandberg. On Media Memory: Collective Memory in a New Media Age (https://books.google.com/books?id=7mKJDAAAQBAJ&printsec=frontcover#v=onepage&q=%22social%20media%22&f=false). New York: Palgrave MacMillan, 2011
- 17. Barnhurst, Kevin; Wartella, Ellen (1998). "Young Citizens, American TV Newscasts and the Collective Memory". *Critical Studies in Mass Media*. **15** (3): 279–305. doi:10.1080/15295039809367049 (https://doi.org/10.1080%2F15295039809367049).
- 18. Wang, Z.; Tchernev, J. M.; Solloway, T. (2012). "A dynamic longitudinal examination of social media use, needs, and gratifications among college students". *Computers in Human Behavior.* **28** (5): 1829–1839. doi:10.1016/j.chb.2012.05.001 (https://doi.org/10.1016%2Fj.chb.2012.05.001).
- 19. Morahan-Martin, J.; Schumacher, P. (2003). "Loneliness and social uses of the internet". *Computers in Human Behavior*. **19** (6): 659–671. doi:10.1016/S0747-5632(03)00040-2 (https://doi.org/10.1016%2FS0747-5632%2803%2900040-2).
- 20. Correa, Teresa; Hinsley, Amber W. (October 2009). "Who Interacts on the Web?: The Intersection of Users' Personality and Social Media Use" (https://www.sciencedirect.com/science/article/pii/S074756 3209001472). Computers in Human Behavior. 26.
- 21. Turkle, S. (2012). *Alone together: Why we expect more from technology and less from each other*. New York, NY: Basic Books. **ISBN 978-0-465-03146-7**.
- 22. Burke, Moira; Kraut, Robert; Marlow, Cameron (2011). Social capital on Facebook: Differentiating uses and users (https://web.archive.org/web/20151129071100/http://www.cameronmarlow.com/media/burke-2011-social.pdf) (PDF). Conference on Human Factors in Computing Systems. 7–9. pp. 571–580. doi:10.1145/1978942.1979023 (https://doi.org/10.1145%2F1978942.1979023). ISBN 978-1-4503-0228-9. Archived from the original (http://www.cameronmarlow.com/media/burke-2011-social.pdf) (PDF) on 2015-11-29. Retrieved 2016-03-01.
- 23. Przybylski, Andrew K.; Murayama, Kou; DeHaan, Cody R.; Gladwell, Valerie (2013). "Motivational, emotional, and behavioral correlates of fear of missing out". *Computers in Human Behavior*. **29** (4): 1841–1848. doi:10.1016/j.chb.2013.02.014 (https://doi.org/10.1016%2Fj.chb.2013.02.014).
- 24. "Fear of Missing Out (FOMO)" (https://web.archive.org/web/20150626125816/http://www.jwtintelligence.com/wp-content/uploads/2012/03/F\_JWT\_FOMO-update\_3.21.12.pdf) (PDF). *J. Walter Thompson*. March 2012. Archived from the original (http://www.jwtintelligence.com/wp-content/uploads/2012/03/F\_JWT\_FOMO-update\_3.21.12.pdf) (PDF) on 2015-06-26.
- 25. Wortham, J. (April 10, 2011). "Feel like a wall flower? Maybe it's your Facebook wall". The New York Times. Shea, Michael (July 27, 2015). "Living with FOMO". The Skinny. Retrieved January 9, 2016.
- 26. Walker, Leslie (October 23, 2016). "The Ins and Outs of Facebook Creeping" (https://www.lifewire.com/what-does-creeping-mean-2655280). www.lifewire.com. Lifewire. Retrieved 2018-11-12.
- 27. Fox, Jesse (February 26, 2014). "Why Exes Aren't So "Ex" Anymore" (https://www.psychologytoday.c om/ca/blog/better-living-technology/201402/why-exes-arent-so-ex-anymore). www.psychologytoday.com. Psychology Today. Retrieved 2018-11-12.
- 28. McCormack, Steven; Ortiz, Joseph (2017). Choices & Connections (second ed.).

- 29. Wolpert, Stuart. "Teenage Brain on Social Media" (http://www.newsroom.ucla.edu/releases/the-teenage-brain-on-social-media). Retrieved 2016-05-31.
- 30. Chan, TH (2014). "Facebook and its Effects on Users' Empathic Social Skills and Life Satisfaction: A Double Edged Sword Effect" (https://semanticscholar.org/paper/73a8718bf889f47305d2673d3766de 10e2388ed8). Cyberpsychology, Behavior, and Social Networking. 17 (5): 276–280. doi:10.1089/cyber.2013.0466 (https://doi.org/10.1089%2Fcyber.2013.0466). PMID 24606026 (https://pubmed.ncbi.nlm.nih.gov/24606026).
- 31. Chen, Gina Masullo (2015). "Losing Face on Social Media". *Communication Research.* **42** (6): 819–38. doi:10.1177/0093650213510937 (https://doi.org/10.1177%2F0093650213510937).
- 32. Kowalski, Robin M, Sue Limber, and Patricia W Agatston. Cyberbullying. 1st ed. Malden, MA: Wiley-Blackwell, 2012. Print.
- 33. Chua, Trudy Hui Hui; Chang, Leanne (2016). "Follow me and like my beautiful selfies: Singapore teenage girls' engagement in self-presentation and peer comparison on social media". *Computers in Human Behavior*. **55**: 190–7. doi:10.1016/j.chb.2015.09.011 (https://doi.org/10.1016%2Fj.chb.2015.09.011).
- 34. van der Nagel, Emily (2017-09-02). "From usernames to profiles: the development of pseudonymity in Internet communication". *Internet Histories*. 1 (4): 312–331. doi:10.1080/24701475.2017.1389548 (https://doi.org/10.1080%2F24701475.2017.1389548). ISSN 2470-1475 (https://www.worldcat.org/iss n/2470-1475).
- 35. Patton, George C.; Sawyer, Susan M.; Santelli, John S.; Ross, David A.; Afifi, Rima; Allen, Nicholas B.; Arora, Monika; Azzopardi, Peter; Baldwin, Wendy (June 2016). "Our future: a Lancet commission on adolescent health and wellbeing" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5832967). The Lancet. 387 (10036): 2423–2478. doi:10.1016/s0140-6736(16)00579-1 (https://doi.org/10.1016%2Fs 0140-6736%2816%2900579-1). ISSN 0140-6736 (https://www.worldcat.org/issn/0140-6736). PMC 5832967 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5832967). PMID 27174304 (https://pubmed.ncbi.nlm.nih.gov/27174304).
- 36. Holmberg, Christopher; Berg, Christina; Dahlgren, Jovanna; Lissner, Lauren; Chaplin, John Eric (2018). "Health literacy in a complex digital media landscape: Pediatric obesity patients' experiences with online weight, food, and health information". *Health Informatics Journal.* **25** (4): 1343–1357. doi:10.1177/1460458218759699 (https://doi.org/10.1177%2F1460458218759699). PMID 29499615 (https://pubmed.ncbi.nlm.nih.gov/29499615).
- 37. Wilson, Jenny; Peebles, Rebecka; Hardy, KK; Litt, IF; Wilson, J L (December 2006). "Surfing for thinness: A pilot study of pro-eating disorder web site usage in adolescents with eating disorders". Pediatrics. 118 (6): e1635–e1643. doi:10.1542/peds.2006-1133 (https://doi.org/10.1542%2Fpeds.2006-1133). PMID 17142493 (https://pubmed.ncbi.nlm.nih.gov/17142493).
- 38. Ransom, Danielle C; La Guardia, Jennifer G; Woody, Erik Z; Boyd, Jennifer L (2010). "Interpersonal interactions on online forums addressing eating concerns". *International Journal of Eating Disorders*. **43** (2): 161–170. doi:10.1002/eat.20629 (https://doi.org/10.1002%2Feat.20629). PMID 19308991 (https://pubmed.ncbi.nlm.nih.gov/19308991).
- 39. "Eating Disorders and the Internet" (https://web.archive.org/web/20101019032231/http://www.anad.org/get-information/eating-disorders-and-the-internet/). National Association of Anorexia Nervosa and Associated Disorders. Archived from the original (http://www.anad.org/get-information/eating-disorder s-and-the-internet/) on 2010-10-19. Retrieved 2010-09-07.
- 40. Zhou, Wei-Xing; Leidig, Mathias; Teeuw, Richard M. (2015). "Quantifying and Mapping Global Data Poverty" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4641581). PLOS ONE. 10 (11): e0142076. Bibcode:2015PLoSO..1042076L (https://ui.adsabs.harvard.edu/abs/2015PLoSO..1042076L). doi:10.1371/journal.pone.0142076 (https://doi.org/10.1371%2Fjournal.pone.0142076). PMC 4641581 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4641581). PMID 26560884 (https://pubmed.ncbi.nlm.nih.gov/26560884).

- 41. U.S. Department of Commerce, National Telecommunications and Information Administration (NTIA). (1995). "Falling through the net: A survey of the *have nots* in rural and urban America" (http://www.ntia.doc.gov/ntiahome/fallingthru.html).
- 42. Graham, M. (July 2011). "Time machines and virtual portals: The spatialities of the digital divide". *Progress in Development Studies.* 11 (3): 211–227. CiteSeerX 10.1.1.659.9379 (https://citeseerx.ist.p. su.edu/viewdoc/summary?doi=10.1.1.659.9379). doi:10.1177/146499341001100303 (https://doi.org/10.1177%2F146499341001100303).
- 43. Reilley, Collen A. (January 2011). "Teaching Wikipedia as a Mirrored Technology". *First Monday*. **16** (1–3). doi:10.5210/fm.v16i1.2824 (https://doi.org/10.5210%2Ffm.v16i1.2824).
- 44. Reinhart, J.; Thomas, E.; Toriskie, J. (2011). "K-12 Teachers: Technology Use and the Second Level Digital Divide". *Journal of Instructional Psychology.* **38** (3/4): 181.
- 45. Kontos, Emily Z.; Emmons, Karen M.; Puleo, Elaine; Viswanath, K. (2010). "Communication Inequalities and Public Health Implications of Adult Social Networking Site Use in the United States" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3073379). Journal of Health Communication. 15 (Suppl 3): 216–235. doi:10.1080/10810730.2010.522689 (https://doi.org/10.1080%2F10810730.2010.522689). PMC 3073379 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3073379). PMID 21154095 (https://pubmed.ncbi.nlm.nih.gov/21154095).
- 46. Hilary Heuler. "Who really wins from Facebook's 'free internet' plan for Africa?" (https://www.zdnet.com/article/who-really-wins-from-facebooks-free-internet-plan-for-africa/). ZDNet.
- 47. Leo Mirani (February 9, 2015). "Millions of Facebook users have no idea they're using the internet" (h ttp://qz.com/333313/milliions-of-facebook-users-have-no-idea-theyre-using-the-internet/).
- 48. "Eric Ehrmann: Uruguay Prodded by G-20 to End Bank Secrecy" (http://www.huffingtonpost.com/eric -ehrmann/uruguay-prodded-to-end-ba\_b\_1144833.html). Huffingtonpost.com. December 14, 2011. Retrieved 2013-06-16.
- 49. "News Use Across Social Media Platforms 2018 I Pew Research Center" (http://www.journalism.org/2018/09/10/news-use-across-social-media-platforms-2018/). September 10, 2018. Retrieved 2018-12-08.
- 50. Hayat, Tsahi; Samuel-Azran, Tal (April 3, 2017). ""You too, Second Screeners?" Second Screeners' Echo Chambers During the 2016 U.S. Elections Primaries". *Journal of Broadcasting & Electronic Media.* **61** (2): 291–308. doi:10.1080/08838151.2017.1309417 (https://doi.org/10.1080%2F0883815 1.2017.1309417). ISSN 0883-8151 (https://www.worldcat.org/issn/0883-8151).
- 51. A Critical Appraisal of the Twitterverse. (https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=35468 90) Information Systems: Behavioral & Social Methods eJournal. Accessed 28 April 2020.
- 52. Volfovsky, Alexander; Merhout, Friedolin; Mann, Marcus; Lee, Jaemin; Hunzaker, M. B. Fallin; Chen, Haohan; Bumpus, John P.; Brown, Taylor W.; Argyle, Lisa P. (September 11, 2018). "Exposure to opposing views on social media can increase political polarization" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6140520). Proceedings of the National Academy of Sciences. 115 (37): 9216–9221. doi:10.1073/pnas.1804840115 (https://doi.org/10.1073%2Fpnas.1804840115). ISSN 1091-6490 (https://www.worldcat.org/issn/1091-6490). PMC 6140520 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6140520). PMID 30154168 (https://pubmed.ncbi.nlm.nih.gov/30154168).
- 53. Diehl, Trevor; Weeks, Brian E; Gil de Zúñiga, Homero (July 9, 2016). "Political persuasion on social media: Tracing direct and indirect effects of news use and social interaction". *New Media & Society.* 18 (9): 1875–1895. doi:10.1177/1461444815616224 (https://doi.org/10.1177%2F146144481561622 4). ISSN 1461-4448 (https://www.worldcat.org/issn/1461-4448).
- 54. Greenwood, Molly M.; Sorenson, Mary E.; Warner, Benjamin R. (April 2016). "Ferguson on Facebook: Political persuasion in a new era of media effects". *Computers in Human Behavior.* **57**: 1–10. doi:10.1016/j.chb.2015.12.003 (https://doi.org/10.1016%2Fj.chb.2015.12.003). ISSN 0747-5632 (https://www.worldcat.org/issn/0747-5632).

- 55. Lee, Jae Kook; Choi, Jihyang; Kim, Cheonsoo; Kim, Yonghwan (January 30, 2014). "Social Media, Network Heterogeneity, and Opinion Polarization". *Journal of Communication*. **64** (4): 702–722. doi:10.1111/jcom.12077 (https://doi.org/10.1111%2Fjcom.12077). ISSN 0021-9916 (https://www.worldcat.org/issn/0021-9916).
- 56. Mihailidis, Paul; Viotty, Samantha (March 27, 2017). "Spreadable Spectacle in Digital Culture: Civic Expression, Fake News, and the Role of Media Literacies in "Post-Fact" Society". *American Behavioral Scientist.* 61 (4): 441–454. doi:10.1177/0002764217701217 (https://doi.org/10.1177%2F0 002764217701217). ISSN 0002-7642 (https://www.worldcat.org/issn/0002-7642).
- 57. Díaz-Fernández, Antonio M.; del-Real-Castrillo, Cristina (July 1, 2018). "Spies and security: Assessing the impact of animated videos on intelligence services in school children". *Comunicar* (in Spanish). **26** (56): 81–89. doi:10.3916/c56-2018-08 (https://doi.org/10.3916%2Fc56-2018-08). ISSN 1134-3478 (https://www.worldcat.org/issn/1134-3478).
- 58. Basow, susan A. (1992). *Gender: stereotypes and roles* (http://psycnet.apa.org/psycinfo/1992-97754 -000) (3rd ed.). Belmont CA. U.S: Thomson Brooks/ Cole publishing Co. p. 447.
- 59. Oberst, Ursala; Chamarro, Andres; Renau, Vanessa (2016). "Gender Stereotypes 2.0: Self-Representations of Adolescents on Facebook". *Media Education Research Journal.* **24** (48): 81–89. doi:10.3916/c48-2016-08 (https://doi.org/10.3916%2Fc48-2016-08).
- De Vies, D; Peter, J (2013). "Women on Display: The Effect of Portraying the Self Online on Women's Self-objectification". *Computers in Human Behavior*. 29 (4): 1, 483–1489. doi:10.1016/j.chb.2013.01.015 (https://doi.org/10.1016%2Fj.chb.2013.01.015).
- 61. Manago, Adriana M.; Ward, L. Monique; Lemm, Kristi M.; Reed, Lauren; Seabrook, Rita (2014). "Facebook Involvement, Objectified Body Consciousness, Body Shame, and Sexual Assertiveness in College Women and Men". Sex Roles. 72 (1–2): 1–14. doi:10.1007/s11199-014-0441-1 (https://doi.org/10.1007%2Fs11199-014-0441-1).
- 62. Lundblad, Niklas. "Privacy in a Noisy Society". CiteSeerX 10.1.1.67.965 (https://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.67.965).
- 63. Postman, Neil. "Informing ourselves to death" (https://web.archive.org/web/20160304103651/https://w2.eff.org/Net\_culture/Criticisms/informing\_ourselves\_to\_death.paper). Archived from the original (https://w2.eff.org/Net\_culture/Criticisms/informing\_ourselves\_to\_death.paper) on 2016-03-04. Retrieved 2015-11-24.
- 64. The Joys & Ills of Social Media: A Review. (https://papers.ssrn.com/sol3/papers.cfm?abstract\_id=351 7813) Information Systems: Behavioral & Social Methods eJournal. SSSRN. Accessed 12 February 2020.
- 65. "Cyber Bullying Statistics" (http://www.bullyingstatistics.org/content/cyber-bullying-statistics.html). July 7, 2015.
- 66. Peebles, E (2014). "Cyberbullying: Hiding behind the screen" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4276384). Paediatrics & Child Health. 19 (10): 527–528. doi:10.1093/pch/19.10.527 (https://doi.org/10.1093%2Fpch%2F19.10.527). PMC 4276384 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4276384). PMID 25587229 (https://pubmed.ncbi.nlm.nih.gov/25587229).
- 67. Vogel, Erin A.; Rose, Jason P.; Okdie, Bradley M.; Eckles, Katheryn; Franz, Brittany (2015). "Who compares and despairs? The effect of social comparison orientation on social media use and its outcomes". *Personality and Individual Differences*. **86**: 249–56. doi:10.1016/j.paid.2015.06.026 (https://doi.org/10.1016%2Fj.paid.2015.06.026).
- 68. Hawi, N.S.; Samaha, M. (2017). "The Relations Among Social Media Addiction, Self-Esteem, and Life Satisfaction in University Students]" (https://www.researchgate.net/publication/306048463). Social Science Computer Review. 35 (5): 576–586. doi:10.1177/0894439316660340 (https://doi.org/10.1177%2F0894439316660340).

- 69. Stefanone, M.A.; Lackaff, D.; Rosen, D. (2011). "Contingencies of Self-Worth and Social-Networking-Site Behavior" (http://www.buffalo.edu/content/dam/cas/communication/files/Stefanone/Stefanone\_cy\_berpsych.2011.pdf) (PDF). Cyberpsychology, Behavior, and Social Networking. 14 (1–2): 41–9. doi:10.1089/cyber.2010.0049 (https://doi.org/10.1089%2Fcyber.2010.0049). PMID 21329442 (https://pubmed.ncbi.nlm.nih.gov/21329442).
- 70. Quan-Haase, Anabel; Young, Alyson L. (September 14, 2010). "Uses and Gratifications of Social Media: A Comparison of Facebook and Instant Messaging" (https://semanticscholar.org/paper/8423a c0b397329ad53605d1e8e1cdd5f9b4cade8). Bulletin of Science, Technology & Society. 30 (5): 350–361. doi:10.1177/0270467610380009 (https://doi.org/10.1177%2F0270467610380009).
- 71. "Children, Teens, Media, and Body Image" (https://www.commonsensemedia.org/research/children-teens-media-and-body-image#). *Common Sense Media*. Retrieved 2017-12-03.
- 72. Holland, G.; Tiggerman, M. (2016). "A systematic review of the impact of the use of social networking sites on body image and disordered eating outcomes" (https://www.researchgate.net/publication/298 794212). Body Image. 17: 101–109. doi:10.1016/j.bodyim.2016.02.008 (https://doi.org/10.1016%2Fj. bodyim.2016.02.008). PMID 26995158 (https://pubmed.ncbi.nlm.nih.gov/26995158).
- 73. Lewallen, Jennifer; Behm-Morawitz, Elizabeth (March 30, 2016). "Pinterest or Thinterest?: Social Comparison and Body Image on Social Media". *Social Media + Society*. **2** (1): 205630511664055. doi:10.1177/2056305116640559 (https://doi.org/10.1177%2F2056305116640559).
- 74. Han, Bo (2018). "Social Media Burnout: Definition, Measurement Instrument, and Why We Care". *Journal of Computer Information Systems*. **58** (2): 1–9. doi:10.1080/08874417.2016.1208064 (https://doi.org/10.1080%2F08874417.2016.1208064).
- 75. Rafla, Malak; Carson, Nicholas J; Dejong, Sandra M (2014). "Adolescents and the Internet: What Mental Health Clinicians Need to Know". *Current Psychiatry Reports.* **16** (9): 472. <a href="doi:10.1007/s11920-014-0472-x">doi:10.1007/s11920-014-0472-x</a> (https://doi.org/10.1007%2Fs11920-014-0472-x). <a href="PMID">PMID</a> 25070673 (https://pubmed.ncbi.nlm.nih.gov/25070673).
- 76. Junco, Reynol (September 2011). "Too Much Face and Not Enough Books" (https://www.sciencedirect.com/science/article/pii/S0747563211001932). Computers in Human Behavior. 28: 187–198. doi:10.1016/j.chb.2011.08.026 (https://doi.org/10.1016%2Fj.chb.2011.08.026).
- 77. Zagorski, Nick (January 20, 2017). "Using Many Social Media Platforms Linked With Depression, Anxiety Risk". *Psychiatric News.* **52** (2): 1. doi:10.1176/appi.pn.2017.1b16 (https://doi.org/10.1176%2 Fappi.pn.2017.1b16). ISSN 0033-2704 (https://www.worldcat.org/issn/0033-2704).
- 78. Rajani, Deepika (2019-07-25). "Inside The Bruderhof: The radical Christians living in an English village" (https://inews.co.uk/culture/television/inside-the-bruderhof-bbc-documentary-when-time-community-where-live/). inews.co.uk. Retrieved 2019-08-15.
- 79. Specialist, Karen Frazier Public Relations. "Why Some Parents Dislike Social Networking" (https://socialnetworking.lovetoknow.com/Parents\_Dislike\_Social\_Networking). LoveToKnow. Retrieved 2019-08-15.
- 80. Brown, Jessica. "Is social media bad for you? The evidence and the unknowns" (http://www.bbc.com/future/story/20180104-is-social-media-bad-for-you-the-evidence-and-the-unknowns). Retrieved 2018-06-13.
- 81. Levenson, Jessica C.; Shensa, Ariel; Sidani, Jaime E.; Colditz, Jason B.; Primack, Brian A. (April 2016). "The Association Between Social Media Use and Sleep Disturbance Among Young Adults" (ht tps://www.ncbi.nlm.nih.gov/pmc/articles/PMC4857587). *Preventive Medicine*. **85**: 36–41. doi:10.1016/j.ypmed.2016.01.001 (https://doi.org/10.1016%2Fj.ypmed.2016.01.001). PMC 4857587 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4857587). PMID 26791323 (https://pubmed.ncbi.nlm.nih.gov/26791323).
- 82. O'Keefe Schurgen, Gwenn. Clarke-Pearson, Kathleen. (2011) The impact of Social Media on Children, Adolescents, and Families (https://www.cooperativa.cl/noticias/site/artic/20110329/asocfile/20110329173752/reporte\_facebook.PDF). American Academy of Pediatrics, Volume 127 (issue 4), 800-805

- 83. Bányai, Fanni; Zsila, Ágnes; Király, Orsolya; Maraz, Aniko; Elekes, Zsuzsanna; Griffiths, Mark D.; Andreassen, Cecilie Schou; Demetrovics, Zsolt (January 9, 2017). "Problematic Social Media Use: Results from a Large-Scale Nationally Representative Adolescent Sample" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5222338). PLOS ONE. 12 (1): e0169839. Bibcode:2017PLoSO..1269839B (https://ui.adsabs.harvard.edu/abs/2017PLoSO..1269839B). doi:10.1371/journal.pone.0169839 (https://doi.org/10.1371%2Fjournal.pone.0169839). ISSN 1932-6203 (https://www.worldcat.org/issn/1932-6203). PMC 5222338 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5222338). PMID 28068404 (https://pubmed.ncbi.nlm.nih.gov/28068404).
- 84. "How social media reflects our daily mood changes" (https://www.medicalnewstoday.com/articles/320 381.php). *Medical News Today*. Retrieved 2018-06-13.
- 85. "AMPU Guide: Common Cross-cultural Communication Challenges" (http://www.pbs.org/ampu/crosscult.html). www.pbs.org. Retrieved 2019-12-03.
- 86. Prakapienė, Dalia. "The Impact of Social Media on Intercultural Communication" (https://www.researchgate.net/publication/311535510). Research Gate. Retrieved 3 December 2019.
- 87. Saxton, Gregory D.; Niyirora, Jerome N.; Guo, Chao; Waters, Richard D. (Spring 2015). "#AdvocatingForChange: The Strategic Use of Hashtags in Social Media Advocacy". *Advances in Social Work.* 16: 154–169. doi:10.18060/17952 (https://doi.org/10.18060%2F17952).
- 88. "Social Media and Adolescents' and Young Adults' Mental Health" (http://www.center4research.org/s ocial-media-affects-mental-health/). National Center for Health Research. 2018-08-10. Retrieved 2020-02-29.
- 89. "Social Media and Adolescents' and Young Adults' Mental Health" (http://www.center4research.org/s ocial-media-affects-mental-health/). National Center for Health Research. 2018-08-10. Retrieved 2020-02-29.
- 90. O'Keeffe, Gwenn; Clarke-Pearson, Kathleen (2011). "The Impact of Social Media on Children, Adolescents, and Families" (http://pediatrics.aappublications.org/content/pediatrics/127/4/800.full.pdf) (PDF). Official Journal of the American Academy of Pediatrics: 800, 801.
- 91. Flanigin, Andrew J; Metzger, Miriam (2007). "The role of site features, user attributes, and information verification behaviors on the perceived credibility of web-based information" (http://www.annehelmond.nl/wordpress/wp-content/uploads/2007/04/319.pdf) (PDF). New Media and Society. 9 (2): 319–342. doi:10.1177/1461444807075015 (https://doi.org/10.1177%2F1461444807075015). Retrieved 2014-02-15.
- 92. Paul, Jomon Aliyas; Baker, Hope M.; Cochran, Justin Daniel (November 2012). "Effect of online social networking on student academic performance". *Computers in Human Behavior*. **28** (6): 2117–2127. doi:10.1016/j.chb.2012.06.016 (https://doi.org/10.1016%2Fj.chb.2012.06.016).
- 93. Hinchiffe, Don. "Are social media silos holding back business" (https://www.zdnet.com/are-social-media-silos-holding-back-business-results-7000017227/). ZDNet.com. Retrieved 2014-02-15.
- 94. Kaplan Andreas M.; Haenlein Michael (2010). "Users of the world, unite! The challenges and opportunities of social media". *Business Horizons*. **53** (1): 67. doi:10.1016/j.bushor.2009.09.003 (https://doi.org/10.1016%2Fj.bushor.2009.09.003).
- 95. Ariel, Yaron; Avidar, Ruth (2014). "Information, Interactivity, and Social Media" (https://semanticscholar.org/paper/9691e381a0fbcfb14d14379cd684d8b8f05d1938). *Atlantic Journal of Communication.* **23** (1): 19–30. doi:10.1080/15456870.2015.972404 (https://doi.org/10.1080%2F15456870.2015.972404).
- 96. Ukpe, Kufre, The Impact of Social Media on Technology
- 97. Ray, Munni (2010). "Effect of Electronic Media on Children" (http://www.lib.umich.edu/articles/details/FETCH-LOGICAL-c1141-77ca8b617088157d8525719159302e357cc9e8ca93e520729bdfdadbf588ffcd1). Indian Pediatrics. Springer-Verlag. 47 (7): 561–8. doi:10.1007/s13312-010-0128-9 (https://doi.org/10.1007%2Fs13312-010-0128-9). PMID 20683108 (https://pubmed.ncbi.nlm.nih.gov/20683108). Retrieved 2013-02-04.

- 98. Spears, B. A.; Taddeo, C. M.; Daly, A. L.; Stretton, A.; Karklins, L. T. (2015). "Cyberbullying, help-seeking and mental health in young Australians: Implications for public health". *International Journal of Public Health*. **60** (2): 219–226. doi:10.1007/s00038-014-0642-y (https://doi.org/10.1007%2Fs00038-014-0642-y). PMID 25572385 (https://pubmed.ncbi.nlm.nih.gov/25572385).
- 99. Trimarchi, Maria (July 24, 2009). "5 Myths About Twitter" (https://electronics.howstuffworks.com/tech-myths/5-myths-about-twitter.htm). Howstuffworks. Retrieved 2017-10-22.
- 00. Keen, Andrew (2007). The Cult of the Amateur. Random House. p. 15. ISBN 978-0-385-52081-2.
- 01. Jo Sales, Nancy (Feb 23, 2016). *American Girls: Social Media and the Secret Lives of Teenagers* (htt ps://archive.org/details/americangirlssoc0000sale). New York: Knopf Doubleday Publishing Group, a division of Penguin Random House LLC. ISBN 978-0-385-35392-2.
- 02. Westerman, David; Spence, Patric R.; Van Der Heide, Brandon (2014-01-01). "Social Media as Information Source: Recency of Updates and Credibility of Information" (https://academic.oup.com/jcmc/article/19/2/171/4067516). Journal of Computer-Mediated Communication. 19 (2): 171–183. doi:10.1111/jcc4.12041 (https://doi.org/10.1111%2Fjcc4.12041).
- 03. Dickey, Irene J.; Lewis, William F. (2010). "The Evolution (Revolution) of Social Media and Social Networking as a Necessary Topic in the Marketing Curriculum: A Case for Integrating Social Media into Marketing Classes" (http://ecommons.udayton.edu/cgi/viewcontent.cgi?article=1037&context=mgt\_fac\_pub). Department of Management and Marketing eCommons. Management and Marketing Faculty Publications, Paper 32. University of Dayton. Retrieved 2017-11-14.
- 04. Confessore, Nicholas (January 27, 2018). "The Follower Factory" (https://www.nytimes.com/interactive/2018/01/27/technology/10000005704904.app.html?emc=edit\_ta\_20180127&nl=top-stories&nlid=72995439&ref=headline). The New York Times.
- 05. Facebook starts fact-checking partnership with Reuters (https://www.reuters.com/article/us-facebook-partnership-reuters/facebook-starts-fact-checking-partnership-with-reuters-idUSKBN2062K4)
- 06. After Trump's Speech, Twitter Fact-Checks the Fact-Checkers (https://www.wired.com/story/trump-speech-twitter-fact-check/)
- 07. See fact checks in YouTube search results (https://support.google.com/youtube/answer/9229632?hl=en)
- 08. Morozov, Evgeny (Fall 2009). "Iran: Downside to the 'Twitter Revolution'" (https://www.evgenymorozov.com/morozov\_twitter\_dissent.pdf) (PDF). <u>Dissent.</u> **56** (4): 10–14. doi:10.1353/dss.0.0092 (https://doi.org/10.1353%2Fdss.0.0092).
- 09. Media Bistro (2012).
- 10. "U.S. POPClock Projection". United States Census Bureau. 2012.
- 11. Auer, Matthew R. (2011). "The Policy Sciences of Social Media". *Policy Studies Journal.* **39** (4): 709–736. doi:10.1111/j.1541-0072.2011.00428.x (https://doi.org/10.1111%2Fj.1541-0072.2011.00428.x). SSRN 1974080 (https://ssrn.com/abstract=1974080).
- 12. Times, The New York. "Mark Zuckerberg Testimony: Senators Question Facebook's Commitment to Privacy" (https://www.nytimes.com/2018/04/10/us/politics/mark-zuckerberg-testimony.html). Retrieved 2018-06-13.
- 13. Malcolm Gladwell (October 4, 2010). "Small Changes Why the revolution will not be tweeted" (htt p://www.newyorker.com/magazine/2010/10/04/small-change-3). Retrieved 2012-11-15.
- 14. Kwak, Nojin; Lane, Daniel S; Weeks, Brian E; Kim, Dam Hee; Lee, Slgi S; Bachleda, Sarah (April 1, 2018). "Perceptions of Social Media for Politics: Testing the Slacktivism Hypothesis". *Human Communication Research.* **44** (2): 197–221. doi:10.1093/hcr/hqx008 (https://doi.org/10.1093%2Fhc r%2Fhqx008). ISSN 0360-3989 (https://www.worldcat.org/issn/0360-3989).
- 15. Jones, Harvey; Soltren, José Hiram (2005). "Facebook: Threats to Privacy" (http://groups.csail.mit.ed u/mac/classes/6.805/student-papers/fall05-papers/facebook.pdf) (PDF). MIT Computer Science & Artificial Intelligence Lab. Retrieved 2018-04-04.

- 16. Madden, Mary; et al. (May 21, 2013). "Teens, Social Media, and Privacy" (http://www.pewinternet.or g/2013/05/21/teens-social-media-and-privacy/). Pew Research Center: Internet, Science & Tech. Retrieved 2016-11-29.
- 17. Murphy, Kate (October 4, 2014). "We Want Privacy, but Can't Stop Sharing" (https://www.nytimes.com/2014/10/05/sunday-review/we-want-privacy-but-cant-stop-sharing.html). *The New York Times*.
- 18. Mills, Max (2017). "Sharing Privately". *Journal of Media Law.* **9**: 45–71. doi:10.1080/17577632.2016.1272235 (https://doi.org/10.1080%2F17577632.2016.1272235).
- 19. "Americans' complicated feelings about social media in an era of privacy concerns" (http://www.pewresearch.org/fact-tank/2018/03/27/americans-complicated-feelings-about-social-media-in-an-era-of-privacy-concerns/). Pew Research Center. March 27, 2018. Retrieved 2018-06-13.
- 20. Stephen Fidler and Georgia Wells, "U.K.Lawmakers Rebuke Facebook in Call for Social-Media Regulation" (https://www.wsj.com/articles/u-k-committee-rebukes-facebook-in-call-for-social-media-regulation-11550448060#comments\_sector), The Wall Street Journal, February 17, 2019
- 21. Cova, Bernard; Dalli, Daniele (2009). "Working consumers: the next step in marketing theory?" (https://mpra.ub.uni-muenchen.de/36717/1/MPRA\_paper\_36717.pdf) (PDF). *Marketing Theory.* **9** (3): 315–339. doi:10.1177/1470593109338144 (https://doi.org/10.1177%2F1470593109338144).
- 22. Pihl, Christofer (2011). *Marketing fads and fashions exploring digital marketing practices and emerging organisational fields* (https://gupea.ub.gu.se/bitstream/2077/27913/1/gupea\_2077\_27913\_1.pdf) (PDF). Gothenburg: Gothenburg University.
- 23. Laurell, Christofer (2014). *Commercialising social media: a study of fashion (blogo)spheres* (http://www.diva-portal.org/smash/get/diva2:682055/FULLTEXT01.pdf) (PDF). Stockholm University.
- 24. Pihl, Christofer (2013). "When customers create the ad and sell it –a value network approach". *Journal of Global Scholars of Marketing Science*. **23** (2): 127–143. doi:10.1080/21639159.2013.763487 (https://doi.org/10.1080%2F21639159.2013.763487).
- 25. Pihl, Christofer; Sandström, Christian (2013). "Value creation and appropriation in social media –the case of fashion bloggers in Sweden". *International Journal of Technology Management.* **61** (3/4): 309. doi:10.1504/IJTM.2013.052673 (https://doi.org/10.1504%2FIJTM.2013.052673).
- 26. "Facebook Addiction Disorder The 6 Symptoms of F.A.D." (http://www.adweek.com/digital/facebook-addiction-disorder-the-6-symptoms-of-f-a-d/) adweek.com. May 2, 2011. Retrieved 2011-05-02.
- 27. Brailovskaia, J (2017). "Facebook Addiction Disorder (FAD) among German students—A longitudinal approach" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5730190). PLOS ONE. 12 (12): 2423—2478. Bibcode:2017PLoSO..1289719B (https://ui.adsabs.harvard.edu/abs/2017PLoSO..1289719B). doi:10.1371/journal.pone.0189719 (https://doi.org/10.1371%2Fjournal.pone.0189719). PMC 5730190 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5730190). PMID 29240823 (https://pubmed.ncbi.nlm.nih.gov/29240823).
- 28. read, Suzanne Kane Last updated: December 6, 2018 ~ 4 min (December 6, 2018). "Portion-Control in Social Media? How Limiting Time Increases Well-Being" (https://psychcentral.com/blog/portion-control-in-social-media-how-limiting-time-increases-well-being/). World of Psychology. Retrieved 2019-04-29.
- 29. Kist, W. (2012). "Class get ready to tweet: Social media in the classroom. Our children" (http://files.eri c.ed.gov/fulltext/EJ991339.pdf) (PDF). files.eric.ed.gov.
- 30. Salih Sarıkaya (October 30, 2014). "Social Media Ban In Turkey: What Does It Mean? by Salih Sarıkaya" (https://web.archive.org/web/20141006012638/http://www.salihsarikaya.com/en/social-media-ban-in-turkey-what-does-it-mean-by-salih-sarikaya/). Archived from the original (http://www.salihsarikaya.com/en/social-media-ban-in-turkey-what-does-it-mean-by-salih-sarikaya/) on 2014-10-06.
- 31. "Turkey's Twitter ban violates free speech: constitutional court" (https://www.reuters.com/article/us-turkey-twitter-ban-idUSBREA311BF20140402). *Reuters*. April 2, 2014.
- 32. Mex Cooper (July 30, 2014). "Social media users could be charged for sharing WikiLeaks story" (htt p://www.brisbanetimes.com.au/national/social-media-users-could-be-charged-for-sharing-wikileaks-st ory-20140730-zye0b.html). Brisbane Times.

- Kan, M. (December 2019). "Twitter Wants Social Media to Be More Like Email" (https://www.pcmag.c om/news/372488/twitter-wants-social-media-to-be-more-like-email). pcmag.com. Retrieved 14 December 2019.
- 34. Reynolds, Glenn Harlan (August 18, 2018). "When Digital Platforms Become Censors" (https://www.wsj.com/articles/when-digital-platforms-become-censors-1534514122?mod=rsswn). *The Wall Street Journal*. Archived (https://web.archive.org/web/20190330045941/https://www.wsj.com/articles/when-digital-platforms-become-censors-1534514122?mod=rsswn) from the original on 2019-03-30.
- 35. Chandrasekharan, Eshwar; Pavalanathan, Umashanti; et al. (November 2017). "You Can't Stay Here: The Efficacy of Reddit's 2015 Ban Examined Through Hate Speech" (http://comp.social.gatech.edu/papers/cscw18-chand-hate.pdf) (PDF). Proc. ACM Hum.-Comput. Interact. 1 (2): Article 31. doi:10.1145/3134666 (https://doi.org/10.1145%2F3134666).
- 36. McCullagh, Declan (February 2019). "Deplatforming Is a Dangerous Game" (https://reason.com/archives/2019/01/20/deplatforming). Reason. Archived (https://web.archive.org/web/20190331055502/https://reason.com/archives/2019/01/20/deplatforming) from the original on 2019-03-31.
- 37. boyd, danah (2011). "White Flight in Networked Publics? How Race and Class Shaped American Teen Engagement with MySpace and Facebook". In Nakamura, Lisa; Chow-White, Peter (eds.). *Race After the Internet*. Routledge. pp. 203–222.

# **Further reading**

- Benkler, Yochai (2006). The Wealth of Networks. New Haven: Yale University Press. ISBN 978-0-300-11056-2. OCLC 61881089 (https://www.worldcat.org/oclc/61881089).
- Fuchs, Christian (2014). Social Media: A Critical Introduction. London: Sage. ISBN 978-1-4462-5731-9.
- Gentle, Anne (2012). Conversation and Community: The Social Web for Documentation (2nd ed.).
   Laguna Hills, CA: XML Press. ISBN 978-1-937434-10-6. OCLC 794490599 (https://www.worldcat.org/oclc/794490599).
- Hayat, Tsahi; Samuel-Azran, Tal (2017). "'You too, Second Screeners?' Second Screeners' Echo Chambers During the 2016 U.S. Elections Primaries". *Journal of Broadcasting & Electronic Media*. 61 (2): 291–308. doi:10.1080/08838151.2017.1309417 (https://doi.org/10.1080%2F08838151.2017.1309417).
- Johnson, Steven Berlin (2005). *Everything Bad Is Good for You*. New York: Riverhead Books. ISBN 978-1-57322-307-2. OCLC 57514882 (https://www.worldcat.org/oclc/57514882).
- Jue, Arthur L., Jackie Alcalde Marr, Mary Ellen Kassotakis (2010). <u>Social media at work: how networking tools propel organizational performance</u> (https://archive.org/details/socialmediaatwor0000 juea) (1st ed.). San Francisco, CA: Jossey-Bass. ISBN 978-0-470-40543-7.
- Lardi, Kamales; Fuchs, Rainer (2013). Social Media Strategy A step-by-step guide to building your social business (1st ed.). Zurich: vdf. ISBN 978-3-7281-3557-5.
- Li, Charlene; Bernoff, Josh (2008). *Groundswell: Winning in a World Transformed by Social Technologies*. Boston: Harvard Business Press. ISBN 978-1-4221-2500-7. OCLC 423555651 (https://www.worldcat.org/oclc/423555651).
- McHale, Robert; Garulay, Eric (2012). Navigating Social Media Legal Risks: Safeguarding Your Business (http://books.slashdot.org/story/12/08/13/1315256/book-review-navigating-social-media-leg al-risks/). Que. ISBN 978-0-7897-4953-6.
- Piskorski, Mikołaj Jan (2014). A Social Strategy: How We Profit from Social Media. Princeton, NJ: Princeton University Press. ISBN 978-0-691-15339-1.
- Powell, Guy R.; Groves, Steven W.; Dimos, Jerry (2011). *ROI of Social Media: How to improve the return on your social marketing investment* (https://archive.org/details/roiofocialmediah0000powe). New York: John Wiley & Sons. ISBN 978-0-470-82741-3. OCLC 0470827416 (https://www.worldcat.org/oclc/0470827416).

- Rheingold, Howard (2002). *Smart mobs: The next social revolution* (https://archive.org/details/smart mobsnextsoc00rhei/page/288) (1st printing ed.). Cambridge, MA: Perseus Pub. p. 288 (https://archive.org/details/smartmobsnextsoc00rhei/page/288). ISBN 978-0-7382-0608-0.
- Scoble, Robert; Israel, Shel (2006). Naked Conversations: How Blogs are Changing the Way Businesses Talk with Customers. Hoboken, NJ: John Wiley. ISBN 978-0-471-74719-2.
   OCLC 61757953 (https://www.worldcat.org/oclc/61757953).
- Shirky, Clay (2008). Here Comes Everybody. New York: Penguin Press. ISBN 978-1-59420-153-0.
   OCLC 458788924 (https://www.worldcat.org/oclc/458788924).
- Siegel, Alyssa (September 7, 2015). "How Social Media Affects Our Relationships" (http://psychology tomorrowmagazine.com/how-social-media-affects-our-relationships/). Psychology Tomorrow.
- Surowiecki, James (2004). The Wisdom of Crowds. New York: Anchor Books. ISBN 978-0-385-72170-7. OCLC 156770258 (https://www.worldcat.org/oclc/156770258).
- Tapscott, Don; Williams, Anthony D. (2006). Wikinomics. New York: Portfolio. ISBN 978-1-59184-138-8. OCLC 318389282 (https://www.worldcat.org/oclc/318389282).
- Watts, Duncan J. (2003). Six degrees: The science of a connected age. London: Vintage. p. 368.
   ISBN 978-0-09-944496-1.
- Tedesco, Laura Anne (October 2000). "Lascaux (ca. 15,000 B.C.)" (http://www.metmuseum.org/toah/hd/lasc/hd\_lasc.htm). *Heilbrunn Timeline of Art History*. New York: The Metropolitan Museum of Art.
- Agozzino, Alisa (2012). "Building A Personal Relationship Through Social Media: A Study Of Millenial Students' Brand Engagement". *Ohio Communication Journal*. 50: 181–204.
- Schoen, Harald; Gayo-Avello, Daniel; Takis Metaxas, Panagiotis; Mustafaraj, Eni; Strohmaier, Markus; Gloor, Peter (2013). "The power of prediction with social media". *Internet Research.* 23 (5): 528–543. CiteSeerX 10.1.1.460.3885 (https://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.46 0.3885). doi:10.1108/IntR-06-2013-0115 (https://doi.org/10.1108%2FIntR-06-2013-0115).
- Mateus, Samuel (2012). "Social Networks Scopophilic dimension social belonging through spectatorship" (https://www.academia.edu/3248766). *Observatorio (OBS\*) Journal, Special Issue*.
- Jordan, Kasteler (2017). "How to use SEO data in your social media strategy" (http://marketingland.c om/use-seo-data-social-media-strategy-219705).
- Schrape, JF (2017). Reciprocal irritations: Social media, mass media and the public sphere (https://www.researchgate.net/publication/318723400). New Modes of Shaping Social Change?. pp. 138–150. doi:10.4337/9781786438386.00016 (https://doi.org/10.4337%2F9781786438386.00016). ISBN 978-1-78643-838-6.
- O'Keeffe, G.S.; Clarke-Pearson, K. (2011). "The impact of social media on children, adolescents, and families" (http://pediatrics.aappublications.org/content/127/4/800.full). *Pediatrics.* **127** (4): 800–804. doi:10.1542/peds.2011-0054 (https://doi.org/10.1542%2Fpeds.2011-0054). PMID 21444588 (https://pubmed.ncbi.nlm.nih.gov/21444588).
- Blankenship, M (2011). "How social media can and should impact higher education". The Education Digest. 76 (7): 39. ProQuest 848431918 (https://search.proquest.com/docview/848431918).
- Al-Rahmi, Waleed Mugahed; Othman, Mohd Shahizan (2013). "The Impact of Social Media use on Academic Performance among university students: A Pilot Study" (https://www.researchgate.net/publication/283723637). Journal of Information Systems Research and Innovation: 1–10.
- Beshears, Michael L. (2016). "Effectiveness of Police Social Media Use". *American Journal of Criminal Justice*. 42 (3): 489–501. doi:10.1007/s12103-016-9380-4 (https://doi.org/10.1007%2Fs12103-016-9380-4).

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