

1 Citation: Marwick, A. (2013). “Ethnographic and Qualitative Research on Twitter.” In Weller,  
2 K., Bruns, A., Puschmann, C., Burgess, J. and Mahrt, M. (eds), *Twitter and Society*. New York:  
3 Peter Lang, 109-122.

4  
5 *Preprint Version – Refer to published version for page numbers*

## 6 7 **Chapter 9**

### 8 9 **Ethnographic and Qualitative Research on Twitter**

10 Alice E. Marwick

11  
12 Twitter’s success has made it a rich research site for scholars interested in online  
13 interaction, information dissemination, activism, and a plethora of other subjects. The sheer  
14 volume of users, tweets, and hashtags has made the site a favourite for quantitative data analysis  
15 and “big data” number-crunching. For instance, in an early study of Twitter, Krishnamurthy,  
16 Gill, and Arlitt (2008) collected information about nearly 100,000 users, including number of  
17 accounts followed, number of accounts following them, and frequency of status updates. The  
18 authors created a taxonomy of Twitter users, grouping them into *broadcasters*, *acquaintances*,  
19 *miscreants*, and *evangelists* based on the ratio of following-to-follower. Similarly, Java, Song,  
20 Finin, and Tseng (2007) used a sample of 1.3 million tweets from 76,177 users to describe why  
21 people use Twitter, which they summarized as “information sharing, information seeking, and  
22 friendship-wise relationship [sic]” (p. 60). While such studies are valuable, inferences made on  
23 the basis of the properties of a large data set are limited in what they can explain. In the latter  
24 study, asking people about their motivations for using Twitter would probably reveal an array of  
25 interesting motivations that do not neatly map on to these three groups. Because Twitter is such  
26 a vast network with so many user groups, simply collecting a great deal of data may not be  
27 adequate for describing use beyond simple queries. Qualitative methods, such as interviews,  
28 ethnographic observations, and content analysis, provide a rich source of data that allow us to go  
29 beyond description. For instance, qualitative methods can help unpack user presumptions about  
30 individual technologies, distinguishing general communicative or social media behaviour from  
31 behaviour that is specific to a platform.

32 Qualitative methods can also reveal much about social norms, appropriateness, or larger  
33 social concerns about technology. Twitter’s breadth and diversity requires recognizing that  
34 different user groups have different social norms and idioms of practice (Gershon, 2010).  
35 Generalizations made about one hashtag, meme, or network of users may not apply to another,  
36 providing only a small portion of the picture. Qualitative research allows scholars to investigate  
37 the practices of a particular user group, as it can go beyond tracking follower counts or hashtag  
38 use to include many more sources of input about a specific community or user segment.  
39 Moreover, qualitative data can often be useful for triangulating and augmenting quantitative  
40 results (see, for example, Honeycutt & Herring, 2009; Naaman, Becker, & Gravano, 2011). This  
41 chapter discusses a variety of qualitative research methods, including interviews, ethnographic  
42 fieldwork, and textual analysis.

#### 43 44 **Interviews**

45

1 Interviews are a basic tool of qualitative methods in a range of disciplines, including  
2 sociology, media studies, anthropology, and human-computer interaction (Spradley, 1979;  
3 Wengraf, 2001). The content and protocol of the interview will depend on the research questions  
4 being asked and type of interview method (semi-structured, ethnographic, narrative, and so  
5 forth). While interviews can be conducted via direct conversations on Twitter, this approach  
6 produces a very particular and constrained style of interview, due to the 140-character limit.  
7 More common is interviewing Twitter users in person, or using a medium like the telephone or  
8 Skype to conduct long-distance interviews.

### 9 10 **Interviews on Twitter.**

11  
12 The simplest way to interview Twitter users is to ask one's own Twitter followers, or to  
13 @reply individual users and ask them quick questions. This approach has several advantages. It  
14 is quick and easy, does not cost anything, and allows the researcher to target broad populations in  
15 relatively small amounts of time. On the other hand, it is hardly representative (although one  
16 could argue that virtually nothing on Twitter would represent "society as a whole"). Besides the  
17 obvious bias of using a convenience sample made up of one's own followers, many Twitter users  
18 will not reply to @replies from people they do not know, and getting the attention of specific  
19 accounts is easier said than done. The researcher's earnest question may look like intrusive  
20 marketing spam, or simply get lost in the rapidly changing stream of tweets. And, obviously, it  
21 is difficult to conduct interviews of any depth using the service. Question-and-answer tweets  
22 might more properly be referred to as a very short survey.

23 Even with these limitations, I found this method quite useful as part of a larger project. I  
24 worked on one study that examined how highly followed individuals conceptualised their  
25 audience (Marwick & boyd, 2011a). My co-author and I were interested in "context collapse",  
26 the phenomenon where large social-network sites like Facebook and Twitter "collapse"  
27 acquaintances from different social contexts into the single word, *friend*, or *follower*. We  
28 wondered if Twitter users recognized the coexistence of these multiple audiences, or had only a  
29 subgroup of followers in mind when they tweeted. Using the site, Twitterholic.com, which ranks  
30 Twitter accounts by number of users, we generated a list of the top 300 most-followed individual  
31 users on Twitter, removing media and business accounts. I created a research Twitter account  
32 separate from my personal account, which clearly identified my affiliation and purpose. I then  
33 sent individual tweets to each person, asking them who they thought of when they tweeted. My  
34 response rate was very low, but a number of people did respond. I then created a similar list of  
35 300 accounts with 10,000–100,000 followers and repeated the process. The response rate was  
36 higher, and I followed up with each responder via Twitter. Two agreed to be interviewed, one  
37 via email and one over the phone. I then tweeted my own followers and asked for responses.  
38 The response rate was still higher. My co-author, danah boyd, had approximately 15,000  
39 followers at the time (a very high number for 2009), and she retweeted my inquiry, garnering  
40 still more responses.

41 At this point we still did not have anything resembling a 'representative' sample, but we  
42 had several hundred responses and could group them into a rough taxonomy of "how people  
43 thought about their audiences." We noticed that these categories remained constant regardless of  
44 the number of followers; in other words, many of the accounts with only a few hundred  
45 followers carefully curated their tweets in the same way that people with hundreds of thousands  
46 of followers did, and several of the most highly followed accounts claimed that they tweeted

1 only for themselves. We also found several categories we had not considered while formulating  
2 our research questions. We could use this information, combined with what we had gleaned  
3 from our literature review of previous studies of the audience, to draw some rough conclusions  
4 about conceptions of the audience on Twitter. We used full-length interviews to test these  
5 assumptions (Marwick & boyd, 2011a).

6 The goal of the second study was to understand how teenagers use Twitter, and whether  
7 there are significant differences between teenage and adult Twitter use. We collected a large  
8 sample of tweets (400,000) that contained the hashtag, “#IGoToASchoolWhere”. This topic  
9 involved young people complaining or making funny observations about their high schools (the  
10 most popular tweet was “#IGoToASchoolWhere the kids are higher than the grades!”). An  
11 intern and I spent many hours going through the corpus, determining the most frequently  
12 retweeted tweets, the most prolific authors, and the highest-followed accounts that participated.  
13 We used quantitative methods to determine these three factors, but I also spent a lot of time  
14 reading through the tweets to get a “feel” for the sample. I searched for various college-related  
15 terms, and randomly sampled accounts to feel confident enough to make the assumption that  
16 most of the participants were teenagers, not adults.

17 However, in order to test this assumption, we needed to talk to the people participating in  
18 the #IGoToASchool hashtag. I again used my research account to send inquiries to the 300  
19 most-frequent tweeters in our #IGoToASchool sample. I created a webpage with a URL-  
20 shortened link (e.g., bit.ly/teentwitter) which I included in the tweets, so users could verify that  
21 the study was legitimate. I got a single response, and it was of the “Uh, what?” variety.  
22 Unfortunately, the methods I had used in the audience study did not work. Teenagers are less  
23 likely than highly followed adult accounts to @reply strangers, and they change their usernames  
24 more frequently than the average Twitter user. I had waited too long after data collection to talk  
25 to the participants; I should have tweeted participants while the hashtag was trending. In  
26 general, when studying a particular hashtag or event, it is best to act quickly and try to get  
27 requests out while the topic is still trending or current. We had to abandon Twitter interviews  
28 and rely primarily on quantitative data and content analysis of the sample, along with a close  
29 reading of the tweets themselves.

30 After this experience, I think it is best to use the Twitter interviews as a supplement to  
31 triangulate results gleaned through other methods such as in-person interviews, content analysis,  
32 or quantitative analysis. Designing a research project so that it required interviews with specific  
33 Twitter users (as opposed to “Twitter users”) was a mistake, given the low response rate.

### 34 35 **Interviews about Twitter.**

36  
37 A preferred interview method is to conduct long-form in-person, email, phone, or Skype  
38 interviews with Twitter users. These have the advantage of providing more information and  
39 background than can be garnered in 140 characters. In their study of “unfollowing”, Kwak,  
40 Chun, and Moon (2011) interviewed 22 Korean users about why they unfollowed people on  
41 Twitter, both in person and on Skype. The researchers compared this interview data with  
42 quantitative analysis of the following behaviour of 1.2 million Korean Twitter users. While  
43 some of the interview data confirmed their quantitative findings, other findings were  
44 surprising—such as people following others reciprocally, even if they did not know the person  
45 who had followed them (Kwak et al., 2011). Thus, on the one hand, as in this case, even a small  
46 number of interviews may help to augment the quantitative findings.

1 On the other hand, long-form interviews require more time and dedication, which may be  
2 difficult, depending on the population under investigation. The logistics of interview  
3 coordination are often difficult. Participants can be recruited over Twitter, but many researchers  
4 find that, out of necessity, they must use email or Facebook to reach out to a broader group of  
5 individuals, as the response rate on Twitter may be low. For instance, in a study of fans of the  
6 Brazilian band, Restart, who use Twitter, Recuero, Amaral, and Monteiro (2012) recruited 43  
7 fans at Restart concerts and another 23 through social media. However, it may be difficult to  
8 recruit a very specific sample (e.g., “#IGoToASchoolWhere hashtag users”) or a representative  
9 sample, as the only people who will respond are those willing to talk to researchers. In this case,  
10 interviews may be used as part of a multi-methodological study to confirm or complicate  
11 previous findings. For example, Letierce, Passant, Breslin, and Decker (2010), in their study of  
12 how Twitter is used to spread scientific methods, surveyed scientists, collected tweets, and  
13 interviewed 10 researchers to clarify points in the data analysis.

14 As stated in the introduction, interviews can be an effective way to investigate normative  
15 assumptions about technology. When I interview people about individual social media  
16 technologies (like Twitter or Facebook), I ask a lot of basic questions (e.g., “What is a  
17 hashtag?”), and pay attention to how people explain their actions. When I first began  
18 interviewing technologists about Twitter (Marwick, 2010), I was sometimes tempted to show off  
19 my technical knowledge, but I found it more effective to feign ignorance and ask users to explain  
20 principles of the technology to me, which can reveal a lot about implicit norms and social  
21 practice. Depending on the study, I have also found it useful to ask interview participants to  
22 show me their Twitter accounts and walk me through individual tweets. This can reveal a lot of  
23 rich information about content strategies and presumptions that the user makes (as well as a gap  
24 between self-reported data and practice!). I have also found that it is necessary to understand  
25 Twitter as part of a multiplex of communication options (Haythornthwaite, 2001). Studies show  
26 that virtually all Twitter users use another social network, usually Facebook, in addition to  
27 Twitter (Brenner, 2012). Thus, it is important to distinguish social media behaviour *in general*  
28 from social media behaviour *on Twitter*.

## 30 **Ethnographic Research on Twitter**

31  
32 For the purposes of this article, I will differentiate ethnographic interviews (which  
33 involve understanding participants’ meaning-making processes) from ethnographic fieldwork,  
34 which involves in-person observation and participation, ideally over a lengthy period of time,  
35 either online or in a particular physical location (Fetterman, 2009; Madden, 2010).

### 37 **“In-person” fieldwork.**

38  
39 For my doctoral dissertation, I conducted more than a year’s worth of ethnographic  
40 fieldwork in San Francisco among members of the “Web 2.0 scene” (Marwick, 2010). My  
41 participants were avid users of Twitter and were happy to discuss it in interviews, but I also  
42 observed their use of technology in the field. While I was not always able to see people tweeting  
43 in social situations, the technologies constantly came up in conversation. I tried to keep records  
44 of even small mentions of the technology. I paid close attention to discussions and conversations  
45 about the “right” or “wrong” ways to use technology, which revealed many normative  
46 assumptions about the “best” way to use Twitter. I tried to track when participants chose to use

1 Twitter (e.g., “I have to ‘overheard’ that”, or “that’s going on Twitter”), when it was  
2 inappropriate, when people refused to tweet, and when people discussed Twitter in groups.  
3 When informants mentioned that they read something on Twitter, or explained how they learned  
4 to use Twitter, this information was quite useful.

5 Comparisons of a person’s discussions of Twitter with their Twitter stream can reveal an  
6 added layer of useful information. For example, the information gathered by researchers in face-  
7 to-face settings may be consistent, or divergent, from the uses demonstrated by collected tweets  
8 or the type of information considered proper to share. Moreover, Twitter provides an articulated  
9 social graph in the form of the lists of following/followers that appears on every Twitter profile.  
10 Examining who chooses to follow—or not follow—whom can enable greater understanding of a  
11 particular social scene in which ethnographic fieldwork is being conducted. This also applies to  
12 tweets about events, such as parties or conferences. Reviewing tweets about an event where  
13 ethnographic data was gathered can help flesh out participants’ meaning-making practices about  
14 their activities.

15 Twitter exists as part of an ecosystem of communicative options for users, and often what  
16 is posted on Twitter is not limited to that medium. Participants may discuss specific tweets or  
17 accounts on Tumblr or blogs; repost certain tweets to Facebook; use Twitter to post Instagram  
18 pictures or Foursquare check-ins; or take part in a variety of other social media interactions.  
19 Thus, Twitter must be understood as part of a mediascape which includes other forms of social  
20 media, as well as texting, phone calls, emails, and in-person discussions. Contextualizing tweets  
21 within this rich social web is important.

22 While it is a cliché to affirm the importance of field notes, they are the most important  
23 source of information a researcher will have once fieldwork is complete. I carried a small  
24 notebook in my purse and frequently left events to scribble down notes about what was  
25 happening. I wish I had not assumed that I would remember certain things that happened. While  
26 I have found that only the most disciplined researchers write up their fieldnotes every night, there  
27 is a reason that this is consistently recommended (Emerson, Fretz, & Shaw, 1995).

### 28 29 **Digital or virtual ethnography.**

30  
31 Digital, or virtual, ethnography refers to the practice of observing and/or participating in  
32 a particular online group or community over a period of time (Hine, 2000; Miller & Slater,  
33 2000). Given the traditional definition of a field site as a *space*, “the stage on which the social  
34 processes under study take place” (Burrell, 2009), many such ethnographies have investigated  
35 bounded online “places” such as bulletin boards, forums, or multi-player games like World of  
36 Warcraft (Boellstorff, 2008; Kendall, 2002; Nardi, 2010). Twitter challenges this model because  
37 it is a large, public site, making it difficult to bound, or even determine, exactly who or what one  
38 is studying. Jenna Burrell’s (2009) networked field site approach may be more appropriate,  
39 reframing Twitter as one part of a “network composed of fixed and moving points including  
40 spaces, people, and objects” (p. 189). In other words, Twitter may be one node on a network of  
41 field sites which include other social media sites, in-person locations, and material objects. (This  
42 was the case in my own dissertation project.) Twitter can be used as the primary place to  
43 observe interactions between people over a period of time, but these may be transient,  
44 ephemeral, and difficult to pin down.

45 Several approaches can be taken in determining the boundaries of Twitter as a field site.  
46 For example, a project could “follow” a set number of subjects who have been identified based

1 on other research, such as “feminist bloggers” or members of a specific gaming guild. When  
2 tracking interactions between subjects, and indeed any Twitter users, conversations must be  
3 persistently rebuilt “by way of exploring several previous messages that form the conversation  
4 threads” (Bougie, Starke, Storey, & German, 2011, p. 5). This can be difficult, as Twitter’s tools  
5 for such things are limited. Even when expanding an individual tweet to “conversation view”,  
6 items are often missing, such as contributions by other users and messages sent as new tweets  
7 rather than as replies. The search function on Twitter is notoriously problematic. The only way  
8 to see all messages tweeted by a particular account is from the individual profile page, where all  
9 @replies are aggregated, or by collecting tweets through the API. While such tools can aid in  
10 tracking down components of conversations, they can also be painfully slow.

11 Another, albeit incomplete, way to bound a group is to track the use of hashtags. For  
12 example, I worked on a collaborative study in which the authors were interested in fan practices  
13 around the television show, *Glee* (Marwick, Gray, & Ananny, 2013). We collected tweets that  
14 contained one of three hashtags: #glee, #klaine, and #brittania (the last two are portmanteaus for  
15 names of queer couples on the show). However, it is difficult to call people who use a particular  
16 hashtag a “community” by any strict definition of the term. Some hashtags do function as spaces  
17 of expression with recurring actors (Bruns & Burgess, 2011), but in other hashtags the  
18 participants do not interact with each other. Moreover, hashtags can be used for a wide variety  
19 of purposes besides identification. And the majority of Twitter users do not use hashtags, as they  
20 only appear in between 5–11% of tweets (boyd, Golder, & Lotan, 2010; Suh, Hong, Pirolli, &  
21 Chi, 2010). While this can be a convenient method, it is also an inadequate one.

## 22 23 **Textual Interpretation**

24  
25 Because Twitter is partially a giant corpus of text, many textual analysis methods are  
26 appropriate for analysing Twitter interaction, from qualitative coding of individual tweets to  
27 close readings of particular accounts.

### 28 29 **Textual and discourse analysis.**

30  
31 Qualitative research on Twitter also includes textual analysis and discourse analysis of  
32 individual tweets. Typically, these tweets are collected using an automated tool such as  
33 HootSuite Archives (formerly TwapperKeeper) or The Archivist, creating a fairly large corpus  
34 (discussed in detail in Gaffney & Puschmann, Chapter 5 in this volume). A subset is then  
35 selected for analysis and individually coded using textual analysis software such as Atlas.ti,  
36 NVivo, or Dedoose. For example, Zizi Papacharissi (2012) used textual analysis in her study of  
37 performative self-presentation in Twitter trending topics. Working with a sample of 1,798  
38 tweets, the research team manually coded for descriptive features such as @replies and hashtags,  
39 as well as specific performative strategies which were operationalized based on concepts drawn  
40 from performance theory. Papacharissi also undertook discourse analysis on the same sample,  
41 identifying patterns and repetition in the text. She concluded that play is a primary performative  
42 strategy on Twitter, suggesting that “individuals confronted with a restricted stage for self-  
43 presentation seek to overcome expressive restrictions through imaginative strategies that include  
44 play” (Papacharissi, 2012, p. 1998). In other words, play provides a measure of deniability when  
45 voicing possibly controversial statements in a public forum rife with context collapse. In both

1 these studies, qualitative textual analysis was used to unearth subtleties of interaction on Twitter  
2 which may have been missed using more quantitative methods.

3 Coding itself is a complex process which can be approached in a variety of ways. In  
4 Papacharissi's study, variables were strictly operationalized; for instance, a tweet was coded for  
5 "play" if it contained reordering, exaggeration, repetition, fragmentation, exaggeration and  
6 repetition, or (in)completion. Each of these strategies was carefully defined so as to make  
7 coding easier (for example, "reordering" was defined as "playing around with syntactical or  
8 grammatical rules, rearranging conventional sequencing of words to form sentences, and  
9 generally going against the norm of presenting thoughts into a written sentence" (Papacharissi,  
10 2012, p. 1996). Other approaches include coding for the presence of a particular word (e.g.,  
11 "drama" if the tweet contains the word "drama"), coding for particular names or hashtags, and so  
12 on; the right coding method will primarily depend on your research questions. For more on  
13 coding, see Charmaz, 2006; Corbin & Strauss, 2007; and Patton, 2002. When manually coding, I  
14 have found it easier to create a codebook based on pilot coding a subset of tweets, rather than  
15 rely entirely on grounded theory methods where categories come up during coding. This is  
16 primarily because I tend to create superfluous, repetitive codes without some sort of reference to  
17 draw from (for example, "celebrity", "celebrities", and "micro-celebrity" as three separate  
18 codes). Even though it is inevitable that the codebook will change throughout the coding  
19 process, having a fixed reference is invaluable and usually saves time in the end.

### 20 21 **Close reading and critical discourse analysis.**

22  
23 In addition to social science methodology, humanities scholarship has provided methods  
24 that can be useful when considering Twitter. Close reading is a primary method in literary  
25 criticism, in which texts are read paying rigorous attention to individual words, syntax, and  
26 diction. Critical discourse analysis is a similar close reading strategy in which the researcher  
27 focuses on power relationships and links between texts and ideology (Fairclough, 2003). In both  
28 instances, the researcher will need to choose a relatively small sample of tweets to analyse. This  
29 may be tweets from top users; all tweets from certain users; tweets containing a particular  
30 hashtag; tweets to a particular user, and so forth. In a study of celebrity interaction on Twitter,  
31 my co-author and I chose three case studies—Mariah Carey, Miley Cyrus, and Perez Hilton—to  
32 demonstrate particular aspects of power relationships inherent in fan-audience interactions. I  
33 conducted a close reading of three months of tweets from each celebrity, paying close attention  
34 to their interactions with other Twitter users, particularly @replies (Marwick & boyd, 2011b). In  
35 providing thick description of specific tweets and interactions, we were able to illuminate  
36 specific patterns of use that would have been difficult, if not impossible, to ascertain with a more  
37 automated method.

### 38 39 **Conclusion**

40  
41 Twitter is an immensely rich site for analysis, with a diverse array of users, multiple  
42 language communities, and a variety of subcultures who have taken to it. While, as we have  
43 seen, virtually any qualitative method can be better used to understand Twitter, the majority of  
44 studies on Twitter to date have been quantitative. While the "big data" approach has advantages,  
45 it also has limitations (boyd & Crawford, 2011). Identifying large-scale patterns can be useful,  
46 but it can also overlook *how* people do things with Twitter, *why* they do them, and how they

1 *understand* them. Quantitative studies often determine connections and networks, and interpret  
2 them “objectively” *ex post facto*, based on statistics and numbers. Instead, qualitative research  
3 seeks to understand meaning-making, placing technology use into specific social contexts,  
4 places, and times. Moreover, the claims to “truth” often made by “big data” methods frequently  
5 ignore the difficulty in finding any representative sample of Twitter, Twitter users, users, or  
6 people in general. Tweets gathered are often incomplete, even from APIs or the public  
7 “firehose”. The search function is imprecise. Twitter is used by a relatively small number of  
8 people to begin with, and leaves out entirely those who do not use the Internet. Rather than  
9 taking statistics for granted, the methods outlined in this chapter, and demonstrated throughout  
10 this book, show alternate ways to make sense of user practices, social norms, and power relations  
11 as they play out on Twitter, and throughout the digital world.  
12



## References

- 1  
2  
3 Boellstorff, T. (2008). *Coming of age in second life: An anthropologist explores the virtually*  
4 *human*. Princeton, NJ: Princeton University Press.
- 5 Bougie, G., Starke, J., Storey, M. A., & German, D. M. (2011). Towards understanding Twitter  
6 use in software engineering: Preliminary findings, ongoing challenges and future  
7 questions. In *Proceedings of the 2<sup>nd</sup> International Workshop on Web 2.0 for Software*  
8 *Engineering* (pp. 31–36). Retrieved from <http://dl.acm.org/citation.cfm?id=1984707>
- 9 boyd, d., & Crawford, K. (2011, September). Six provocations for Big Data. Paper presented at  
10 A Decade in Internet Time: Symposium on the Dynamics of the Internet and Society,  
11 Oxford, UK. Retrieved from  
12 [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1926431](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1926431)
- 13 boyd, d., Golder, S., & Lotan, G. (2010). Tweet, tweet, retweet: Conversational aspects of  
14 retweeting on Twitter. In *Proceedings of the Forty-Third Hawai'i International*  
15 *Conference on System Sciences (HICSS-43)* (pp. 1–10). Kauai, HI: IEEE Computer  
16 Society.
- 17 Brenner, J. (2012). Social networking. *Pew Internet & American Life Project*. Retrieved from  
18 [http://pewinternet.org/Commentary/2012/March/Pew-Internet-Social-Networking-full-](http://pewinternet.org/Commentary/2012/March/Pew-Internet-Social-Networking-full-detail.aspx)  
19 [detail.aspx](http://pewinternet.org/Commentary/2012/March/Pew-Internet-Social-Networking-full-detail.aspx)
- 20 Bruns, A., & Burgess, J. (2011, August). The use of Twitter hashtags in the formation of *ad hoc*  
21 publics. In *Proceedings of the European Consortium for Political Research Conference,*  
22 *Reykjavik, Iceland*. Retrieved from <http://eprints.qut.edu.au/46515/>
- 23 Burrell, J. (2009). The field site as a network: A strategy for locating ethnographic research.  
24 *Field Methods, 21*(2), 181-199.
- 25 Charmaz, K. (2006). *Constructing grounded theory: A practical guide through qualitative*  
26 *analysis* (1<sup>st</sup> ed.). Thousand Oaks, CA: Sage.
- 27 Corbin, J., & Strauss, A. (2007). *Basics of qualitative research: Techniques and procedures for*  
28 *developing grounded theory* (3<sup>rd</sup> ed.). Thousand Oaks, CA: Sage.
- 29 Emerson, R. M., Fretz, R. I., & Shaw, L. L. (1995). *Writing ethnographic fieldnotes* (1<sup>st</sup> ed.).  
30 Chicago, IL: University of Chicago Press.
- 31 Fairclough, N. (2003). *Analysing discourse: Textual analysis for social research*. New York,  
32 NY: Routledge.
- 33 Fetterman, D. M. (2009). *Ethnography: Step-by-step*. Newbury Park, CA: SAGE.
- 34 Gershon, I. (2010.) *The breakup 2.0: Disconnecting over new media*. Ithaca, NY: Cornell  
35 University Press.
- 36 Haythornthwaite, C. (2001). Exploring multiplexity: Social network structures in a computer-  
37 supported distance learning class. *The Information Society, 17*(3), 211–226.
- 38 Hine, C. (2000). *Virtual ethnography*. Thousand Oaks, CA: Sage.
- 39 Honeycutt, C., & Herring, S. (2009). Beyond microblogging: Conversation and collaboration via  
40 Twitter. In *Proceedings of the Forty-Second Hawai'i International Conference on System*  
41 *Sciences (HICSS-42)* (pp. 1–10). Los Alamitos, CA: IEEE Computer Society.
- 42 Java, A., Song, X., Finin, T., & Tseng, B. (2007). Why we Twitter: Understanding  
43 microblogging usage and communities. In *Proceedings of the Joint 9<sup>th</sup> WEBKDD and 1<sup>st</sup>*  
44 *SNA-KDD Workshop* (pp. 56–65). San Jose, CA: ACM. Retrieved from  
45 <http://portal.acm.org/citation.cfm?id=1348556>. doi:10.1145/1348549.1348556

- 1 Kendall, L. (2002). *Hanging out in the virtual pub: Masculinities and relationships online*.  
2 Berkeley, CA: University of California Press.
- 3 Krishnamurthy, B., Gill, P., & Arlitt, M. (2008). A few chirps about Twitter. In *Proceedings of*  
4 *the First Workshop on Online Social Networks* (pp. 19–24). Seattle, WA: ACM.  
5 doi:10.1145/1397735.1397741. Retrieved from  
6 <http://portal.acm.org/citation.cfm?id=1397741>
- 7 Kwak, H., Chun, H., & Moon, S. (2011). Fragile online relationship: A first look at unfollow  
8 dynamics in Twitter. In *Proceedings of the 2011 Annual Conference on Human Factors*  
9 *in Computing Systems* (pp. 1091–1100). Vancouver, British Columbia, Canada. Retrieved  
10 from <http://dl.acm.org/citation.cfm?id=1979104>
- 11 Letierce, J., Passant, A., Breslin, J., & Decker, S. (2010). Understanding how Twitter is used to  
12 spread scientific messages. In *Proceedings of the WebSci10: Extending the Frontiers of*  
13 *Society On-Line*. Raleigh, NC. Retrieved from <http://journal.webscience.org/314/>
- 14 Madden, R. (2010). *Being ethnographic: A guide to the theory and practice of ethnography*.  
15 Thousand Oaks, CA: Sage.
- 16 Marwick, A. (2010). Status update: Celebrity, publicity and self-branding in Web 2.0.  
17 (Unpublished doctoral dissertation). New York University, New York, NY.
- 18 Marwick, A., & boyd, d. (2011a). I tweet honestly, I tweet passionately: Twitter users, context  
19 collapse, and the imagined audience. *New Media & Society*, 13(1), 114–133.
- 20 Marwick, A., & boyd, d. (2011b). To see and be seen: Celebrity practice on Twitter.  
21 *Convergence*, 17(2), 139–158.
- 22 Marwick, A., Gray, M. L., & Ananny, M. (2013). ‘Dolphins are just gay sharks!’ *Glee* and the  
23 queer case of transmedia as text and object. *Television & New Media*. Advance online  
24 publication. doi: 10.1177/1527476413478493
- 25 Miller, D., & Slater, D. (2000). *The Internet: An ethnographic approach*. New York, NY: Berg.
- 26 Naaman, M., Becker, H., & Gravano, L. (2011). Hip and trendy: Characterizing emerging trends  
27 on Twitter. *Journal of the American Society for Information Science and Technology*  
28 (*JASIST*), 62(5), 902–918.
- 29 Nardi, B. (2010). *My life as a night elf priest: An anthropological account of World of Warcraft*.  
30 Ann Arbor, MI: University of Michigan Press.
- 31 Papacharissi, Z. (2012). Without you, I’m nothing: Performances of the self on Twitter.  
32 *International Journal of Communication*, 6, 1989–2006.
- 33 Patton, M. Q. (2002). *Qualitative research and evaluation methods*. Thousand Oaks, CA: Sage.
- 34 Recuero, R., Amaral, A., & Monteiro, C. (2012). Fandoms, trending topics and social capital in  
35 Twitter. *Selected Papers of Internet Research*, ir 13.0. Retrieved from  
36 <http://spir.aoir.org/index.php/spir/article/view/7>.
- 37 Spradley, J. P. (1979). *The ethnographic interview*. New York, NY: Harcourt Brace Jovanovich.
- 38 Suh, B., Hong, L., Pirolli, P., & Chi, E. H. (2010). Want to be retweeted? Large scale analytics  
39 on factors impacting retweet in Twitter network. In *2010 IEEE Second International*  
40 *Conference on Social Computing (SocialCom)* (pp. 177–184).  
41 doi:10.1109/SocialCom.2010.33
- 42 Wengraf, T. (2001). *Qualitative research interviewing: Biographic narrative and semi-*  
43 *structured methods*. Thousand Oaks, CA: Sage.
- 44