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and chat rooms to electronic mail and interactive games. More and more, the Internet is to interact with other people. Social interaction has become the number one home use of the Internet (Kraut, Mukopadhyay, Szczypula, Kiesler, information source, much like a fabulous home library, the most popular use of Internet entrepreneurs are discovering that although people do use it as an The Internet offers many venues for social interaction, from topical newsgroups day in 2000 did so in order to send an e-mail to another person (Pew Internet no longer solely a North American phenomenon; according to the most recent & Scherlis, 1998; Moore, 2000). Nearly 80% of those going online in a typical is growing at a rapid rate (Tomlinson, 2001). Report, 2000). And access to (and therefore social interaction on) the Internet is 2001); and although access in Latin America and Internet access, and 25% of European homes do Nielsen-NetRatings survey, 33% of homes in the Africa currently lags behind, it Asia-Pacific region now have so ("Net access growing,"

people's relationships, and whether they are of lower or thereby make new acquaintances. One of the most important current concerns as being of lower quality, people talking online with relative strangers in to "real", face-to-face relationships. with the explosive growth of the Internet has been the quality of these expected that individuals will meet each other there for the first time, and superficial relationships, taking time away from the deeper discussion and face-2000). This weakening of social ties would be to-face comradeship of their relationships with family and friends (e.g., Putnam, fabric of society as well as the psychological well Kiesler, Mukhopadhyay, Scherlis, & Patterson, 1998; Nie & Erbring, 2000). With all of these electronic venues available evident motivation to use the Internet Some have impoverished quality compared ll being of the individual (Kraut, for interaction, combined with described 'virtual' interactions to the detriment of the social for that purpose, it is to be

Not surprisingly, then, there has been much discussion in both the popular

intimate relationship with someone they met initially over the apparent contradiction be resolved? (McKenna, Green, & there are just as close, meaningful, and rewarding as those they have formed offbecome lonely and depressed, and more distant from family and friends (e.g., Harmon, 1998; Kraut, Patterson, Lundmark, Kiesler, Mukopadhyay, & Scherlis, line, and that a substantial percentage of Internet users had formed a close, even findings show that Internet users believe that the personal relationships formed given to the conclusions of some researchers that Internet use causes people to and the scientific press about this issue, with front page newspaper coverage 1998; Markoff, 2000; Sleek, 1998). At the same time, however, other published Gleason, 2002; Parks & Floyd, 1995). How can this Internet

IS THE INTERNET HARMFUL TO YOUR MENTA AND SOCIAL HEALTH?

is that the population of Internet users has changed dramatically over the past 10 recently by Kraut, Kiesler, Boneva, Cummings, Helgeson, and Crawford (2002), quality of Internet social life are due to several reasons. One, as pointed to population studied are potentially quite different. programmers, then a larger but still select group of academics, today the typical on when a study of "Internet users" was conducted, the characteristics of the Internet user is just that - more typical of mainstream society. Thus depending We believe that the seeming contradictions in the existing literature on the years. Originally the province of a small number of computer

studied samples of Internet newsgroup posters and readers, who were likely more experienced and knowledgeable about the Internet than the general population. As Howard, Rainie, and Jones (2001) have recently concluded in studied. Kraut et al.'s (1998) HomeNet study, for example, followed a convenience sample of local Pittsburgh residents who had never owned a computer before, so they were clearly new and inexperienced Internet users; have been actual differences between the various samples of "Internet users" their review of the first decade of the Internet, there is no longer any such thing McKenna and Bargh (1998) and McKenna et al. (2002), on the other findings from any particular sample. as the "average Internet user", thus caution should be exercised in generalizing A second, and related possible reason for the different findings is that there hand,

average or typical Internet interaction compared to the typical face-to-face interaction; a second is that of the quality of the relationships formed on the the same thing. One outcome that has been studied is that of the quality of the of outcomes, but have tended to talk about them as if they were all measuring thus occur because the pattern across these different dependent variables is not social interaction on the Internet. Apparent contradictions between studies can Internet versus in 'real life'; and a third is the psychological and social effects of Thirdly, different researchers have focused on (at least) three different kinds

> consistent (i.e., it is not the case that the Internet uniformly produces better or appears to be. worse outcomes). Happily, however, thus far the evidence within each outcome

Quality of the Average Internet Interaction

of the same quality as face-to-face interactions. Cummings, Butler, and Kraut (in their working or personal relationships (respectively) conducted via e-mail. On poorer quality than off-line or face-to-face interactions, based on surveys in press) concluded that online interactions are, in general, of weaker strength and To date, there is consistent evidence that, overall, average, the electronic interactions were rated as being less useful for building which employees of an international bank, or or sustaining relationships than face-to-face money internet users reported feeling less close to telephone conversation. e-mail than those with whom they stayed in contact through face-to-face or meetings. In a further study, people they kept up with by college students, described Internet interactions are not

success of online versus face-to-face business negotiations - for a variety of have reached a similar conclusion based on a program of research comparing the reasons, it is more difficult and less successful to conduct business negotiations electronically versus in person. evidence that online interactions are face-to-face interactions. Thompson and her colleagues (see Thompson & Nadler, 2002, for a review) It appears base on average less fulfilling and useful than d on the currently available

Can Close Personal Relationships Form Over the Internet?

relationships can form and develop over the Internet, and whether these relationships, once formed, are as rewarding and of the same quality as the faceto-face relationships one forms and maintains. After all, it is hardly the case that Internet versus in-person is not the same as that of whether close, personal The question of whether the average interaction is of a different quality over the all of one's face-to-face interactions develop into close relationships, nor are all face-to-face interactions of high quality (e.g., those with gym buddies or grocery clerks). Internet, and whether these

randomly contacted Internet users confirmed that Internet relationships could become quite close, and even 'real' over time. McKenna et al. (2002) found that The first evidence on this point came from a survey of 176 Internet users by Parks and Floyd (1995). Respondents in that survey reported that the personal traditional, face-to-face relationships were. A relationships they had formed there were just as close, even substantial proportion of the intimate relationships over the Internet users in separate survey of over 500 close and meaningful as their nternet. their sample had developed Interestingly, these

over the Internet, people seem to want to bring them out of the electronic realm Thus, not only is it possible for close and rewarding relationships to and into their real-world, face-to-face life. will describe these findings in more detail in a later section of this or were currently living together with a person they had met on the Internet. (We fact, that over 20% of respondents reported having become engaged to, had formed. A goodly number of these relationships had become rapidly, relative to the speed with which their face-to-face close relationships respondents also reported that the Internet relationships had become close quite So chapter.) close, develop married,

that once they are established, Internet relationships have the potential of relationships once formed over the Internet. Evidence on that score the same high quality and closeness as do face-to-face relationships. et al. (2002) findings concern not the average Internet interaction, but the quality Internet interaction, described above. The Parks and Floyd (1995) and McKenna These findings are distinct from the evidence about the quality of the average suggests to attain

Does Using the Internet Make One Sad and Lonely?

use in the original study was actually to significantly increase the size of the average participant's total social circle of friends, because of the additional (1998) assessed the effects of Internet use over a two-year period on psychological adjustment variables such as depression and loneliness, as well as relationships formed with people outside of the local (Pittsburgh) area. but one or two fewer people in one's social network.) Yet one effect of Internet was associated in their sample with being slightly less happy, and having many absolute scale values of the means, what was found was that greater Internet use people to become more lonely and more depressed. (In actuality, given the local social circle, leading the researchers to conclude that Internet use causes and self-reported depression and loneliness scores, and with the size significant regression coefficients between the number of hours online per week social variables In their 'HomeNet' study tracking new Internet users, Kraut, Patterson, et al. such as number of close friends. They reported small but of one's

Most importantly, however, a recent 3-year follow-up survey of the same participants (Kraut et al., 2002) showed that the original negative effects had subsequently disappeared. In addition, findings from a new sample of Internet users showed overall positive effects of using the Internet on social involvement social well-being. study is that there are no deleterious effects of Internet use on psychological or and well-being. Thus the general take-home message of the complete HomeNet

Internet users. One of their major conclusions was that Internet use causes people to spend less time with family and friends. However, the full report of the study (as opposed to the press release) revealed that this conclusion was based Erbring (2000) in a press release reported results from a survey of In a different study that also received prominent media coverage, Nie and over 4,000

> show that for the vast majority of those surveyed, not less, time with one's family and friends. Taken study found that greater amounts of Internet use was related to spending more, of the total sample did not report spending any less time with friends and family as a result of using the Internet; thus over 95% week. Of this group, 12%—or only 4.3% of the total sample—reported spending relationships. make with family and friends as a consequence. In fact, heaviest users of the Internet, 88% reported no change in amount of time spent on only the 36% of the sample who used the Internet more than 5 hours one sad or lonely, or cause damage ť the recent Kraut et al. (2002) less together, then, these studies using the Internet does not one's time. Even among the existing personal

THE PERSON × INTERNET INTERACTION

this sense, then, the Internet is not changing social life; people are using it to do media in the past (and present), such as the telephone and the regular post. In related to one's social skill level (see Kraut et al., the same things that they've always done. Although we will argue below that in many ways, they use the Internet just as they have used other communication also personality characteristics such as extraversion and introversion that are purposes in using it in the first place (McKenna & Bargh, 2000), and perhaps psychological and social well-being depend upon that it was producing a new, "lonely crowd." But pornography", next to cause "Internet addiction" (see Young, 1998), and finally We hope (and believe) that the initial wave of worries about the not most other respects, social interaction and there are in fact important differences between Internet and face-to-face social and motivations to use the Internet, and much research has already shown that, happiness and popularity. Rather, the effects its use effects on society has run its course. First the Internet was said to be "awash in Internet follow the same rules as in face-to-face inter interactionby itself cause -mainly related to self-presentation and sadness or loneliness. Nor does it directly produce ity. Rather, the effects its use have on a given individual's raction. group self-expressionthe Internet does not-2002). People have reasons that individual's goals and functioning over the - in many if Internet's

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¹⁹⁸⁰s, for instance, was to be able to watch sexually-oriented movies in the privacy of one's home; telephone sex lines are abundant and highly popular; a goodly number of people are 'addicted' to television (we call them 'couch potatoes'); and TV, VCRs and "home entertainment systems" have had a significant effect on reducing social involvement as well as physical and psychological health (see Kubey & Csikszentmihalyi, 1990; Putnam, 2000, pp. 228-246). same charges could be leveledsame charges could be leveled—and with much greater technological innovations. The main impetus behind the purc Take, for instance, the pornography, addiction, and lonely-crowd claims about the Internet. These hase of video tape recorders in the merit and forceat other recent

The Internet as Just Another Communication Medium

effects of its use for the individual depending on that person's motivations and other available communication tools, Tyler (2002) concluded that the Internet is no different from other communication modes and interaction venues, with the functioning, and the findings that people tend to use the Internet just as they do processes between electronic versus face-to-face interactions and group with family and friends. From these similarities for using the Internet was to maintain already existing important relationships al. (in press) and Boneva et al. (2001) similarly found that a prime motivation people they don't already know (Gross, Juvonen, & Gable, 2002). chat-rooms in order to talk with the same friends they have at school, not new find all relationship-related activity more gratifying, in general, than do men (Boneva et al., 2001; McKenna et al., 2002). Middle-school children use Internet are more likely to maintain relationships with kin and far-flung friends and to differences are found in e-mail as in real-life relationships: in both face-to-face groups appropriate conduct emerge in electronic groups in the same way memberships in real-life groups (McKenna & Bargh, 1998). Group norms of memberships become important components of their social identity just as do People become members of electronic Evidence across several research domains is consistent with this (e.g., Postmes, Spears, & Lea, 1999). social groups and in social The psychological Cummings et cases, women these as they do in same conclusion gender group

The Internet's Unique Effects on Self-Expression

towards globalization, and perhaps, toward the spread of democa those in other countries and cultures makes it an additional powerful force world and the ways in which people relate to one another in fundamental ways. contributed dramatically to "globalization" and the spread of different world And the fact that, unlike television, the Internet connects people interactively to Technological advances such as the Internet have often, historically, changed the cultures like order to further unite the country. Satellite television and especially CNN have notes, the U.S. Post Office extended service to remote regions specifically in never have unique impacts on social life and the social fabric. As Tyler (2002) Internet as they do in face-to-face interaction is not to say that new technologies At the same time, the fact that many social processes run the same way on the no technological advance before it (Friedman, racy (Deibert, 1999).

as they occur on the Internet if those processes unfold in the same way, and with the same outcomes, as in traditional, face-to-face social interaction. Therefore, researchers of the social and psychological effects of the Internet Moreover, there is little point in studying psychological and social processes need to focus

> mode and interaction venue seems to produce the same effects as are known for on those aspects that differentiate it from other therefore produce new and different psychological interaction. As noted above, in many ways the face-to-face interactions. But in what ways might the Internet be unique, and and social effects? modes of communication and Internet as a communication

typical face-to-face interaction is the Internet's ability to facilitate selfthe expectations and constraints placed on us by and behave in ways not available in one's usual group-level interactions. For two reasons, this First and foremost is the ability to be relatively expression. There are two unique features of the (e.g., Cooley, 1902; Goffman, 1959; Rogers, 1951). These threatened sanctions create a tension and a conflict for the individual because, at the same time, repertoire, may produce disapproval from one acceptable behaviors and opinions, if they do oneself even (or perhaps especially) to close friends and family. Even socially have noted, there are very real costs to disclosing negative or taboo aspects of costs and risks of social sanctions for what we say or do are greatly reduced. As Pennebaker (1989), Derlega, Metts, Petronio, and Margulis (1993) and others people have a need to have others see them as they see themselves (Gollwitzer, 1986; Swann, 1983). We suggest that one important difference between the typical Internet and enables one to express oneself those who know us, and (b) the social sphere: (a) one is free of anonymous in one's dyadic or e Internet that are responsible. not conform to one's usual group or interaction partners

people possess multiple senses of self: Carl Rogers (1951) famously spoke of self to new partners that he or she is not usually able to, because of these she could become if so chosen; and Higgins (1987) described 'ideal' and 'ought' the individual's "true" or inner self, as opposed to his or her actual, public self; directly to the Internet, noting that its relative anonymity and multiple arenas for from the 'actual' one usually portrayed to others. notion that an individual has alternative senses of him or herself that are distinct to express, respectively. versions of self that possess qualities the individual strives to or feels obligated Markus and Nurius (1986) spoke of 'possible selves' that a person believes he or constraints and threat of social sanctions. below, we believe the particular version of self explore and experiment with different versions social interaction provides people with a virtual The potential for relative anonymity² enables What all of these perspectives have in common is the Several theorists have noted that a person to express aspects of laboratory of sorts in which to that the typical person will be Turkle (1995) applied this idea of self. As will be discussed

social network (Derlega & Chaikin, 1977). For example, a person can use his or her real name on the for these effects on communication and self-disclosure, as the lack of identifiability by one's interaction partner(s) and their lack of knowledge of and contact with the other members of one's identifiable) if the interaction partners have no other knowledge about that person, such as where he or she lives and what he or she does for a living. Conversely, one can be nameless in a face-to-face Internet (e.g., John.Smith@isp.com) and still be relatively interaction but still identifiable later by sight. More precisely, it is not anonymity in the sense of not using one's real name that is as important anonymous (in the sense of not being

in everyday (face-to-face) social interactions. aspects of personality and identity which the person is not able to express easily most highly motivated to explore and express over the Internet will be his or her 'true' self, defined by Rogers (1951) as those inner-experienced qualities and

political ideologues alike can now find fellow travelers on the Internet. Membership and participation in such groups, and thereby sharing these important aspects of self with like-minded others, has powerful effects on one's (certainly not so readily). around the world, where otherwise one would not be able to find similar others previous communication medium in that it enables one to find these other people first time (McKenna & Bargh, 1998, Studies 2 and 3). The Internet is unlike any strongly motivated to 'come out' about them to close family and friends for the identity and self-concept; so much so that even if they are socially taboo one is topic and interest imaginable. Ferret owners, butterfly collectors, mailing lists, chat rooms, web site bulletin boards, and so forth, covering every it affords people the opportunity to find others who share important aspects of self such as hobbies, sexual predilections, political beliefs, and so on, and with have them socially validated (see Howard et al., 2001; McKenna these similar others be able to fully express these important parts of oneself and 1998). There are tens of thousands of topical newsgroups, plus community The second unique way in which the Internet facilitates self-expres and fringe sion is that aspects of & Bargh,

of Internet social interaction for the development of close relationships. selves, and to meet social and psychological needs that are not being met in 'real life.' In the next section we delineate the consequences of this important quality potentially powerful means by which people can express their inner or 'true' For these two reasons, the Internet as a communication medium is a

THE ROLE OF THE 'TRUE SELF' IN INTERNET RELATIONSHIP FORMATION

will be motivated to make these relationships a "social reality" and bring them status of a new and important aspect of one's identity, and therefore relationships have been incorporated into one's true-self concept, they self-disclosure on the development of intimacy. into his or her 'real life' that person, including greater liking, in part because of the influence of such concept and the mental representations of one's Internet relationship partners. Second, the very fact of presenting and expressing one's true-self to the partner who they really are in Internet interaction and communication their 'true self' on the Internetwhy—consists of three causal steps. First, for those individuals who locate importantly contributes to the formation of a close and meaningful bond with venues-Our model of Internet close relationship formation-who will form -associative connections will naturally be formed between the true-self -feeling that they are best able to express and be Third, because these the person them and attain the

Important Relationships Become Linked to the Self

himself strongly as a Canadian and feel indifferent about his occupation (see membership in a social category; a Vancouver schoolteacher of Deaux, 1996). background, for example, belongs to several group categories, but may define context of his or her social network. Identification is person's sense of identity, because they locate the significant individuals in one's life (e.g., Baldwin, 1997; Chen & Andersen, to which the individual belongs (e.g., Deaux, 1996; Tajfel & Turner, 1986) or to representations of other people-1999). These group memberships and relationships can become important to the Several contemporary models of the self see it -for instance, with or identify the person in the as embedded or linked with the identity important groups more than mere Asian

identity, the more likely it will become associated to the self and the stronger will tend to form between the self concept and that association between self and other will be. and significant individuals are said to become incorporated into the self-concept. external social entities. In this manner the mental representations of these groups important defining features of oneself, then associational mental connections relationships with other individuals and also group memberships become In short, the more important the relationship or Similarly, according to recent "relational" models of the self, to the extent the representations of those group membership to one's

Internet Relationship Formation: Free to Be the "Real Me"

Identity-important relationships. one's inner or true self will be the domain where one will tend to form these interaction domains (online versus face-to-face) one feels better able to express or true self should be an important mediator. That is, important to the person? Given the above logic, the But what determines whether Internet-formed re lationships will become this online activation of the inner in which of the two

tell family and close friends about it for the first ti taboo self aspect, and also by whether these individuals became more willing to identity. Self acceptance was measured both by ratings of self-acceptance of this identity into their self concept, indicated by greater newsgroups devoted to these stigmatized identities, they tend to incorporate that or she is not able to express them in normal social interactions. McKenna and (as opposed to actual) self aspects as they are important to the individual but he her family and friends to find out about them. Certainly these qualify as 'true' identities—aspects of self that a person would be embarrassed about were his or Bargh (1998) found that when these As an example, take the case of individuals participate in Internet stigmatized me (thus showing that it had self-acceptance of that 앜 marginalized

become less negative and embarrassing for them)

interactions). aspects of identity, and to be incorporated into one's real life, not restricted to socially sanctioned, others who are able to express their true self offline (i.e., in traditional social words, when the true-self concept is active during Internet interactions, we would Theoretically, the potential identity-transforming nature of the ' expect a greater likelihood of those relationships becoming important stigmatized aspects of the self. In other online self is compared to

who located their true selected Internet newsgroup members (i.e., they had posted messages to one of a have formed close and intimate online relationshipsfeeling more their true, inner self in traditional social interaction settings, those personality there than in offline social life. Compared to those "Real Me" scale (see Table 9.1). This contained several items having to do with bring those partners into their face-to-face interaction world face-to-face interactionswhether respondents would form close relationships over the Internet was his or her responses to a variety of topical newsgroups). The critical mediator of whether the respondent equation modeling of survey responses furnished by hundreds This prediction was tested by McKenna et al. felt more selves on the Internet were significantly more likely to -that is, better able to express their true selves during Internet as opposed to (2002) through structural aspects of taken steps to who reported of randomly self and

Table 9.1. The "Real Me" scale.

	-
Internet than to real life (non-'Net) friends	. Do you think you reveal more about your
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(non-')	more:
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ends?	yourself to
Yes	o people
Z	you
0	you know
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	둧

Are there things your Internet friends know about you that you cannot share with real life (non-'Net) friends? Yes

		w
	on the Internet than you do in real life?	3. To what extent to
J	an you	you
در	u do in re	you tend to
4	al life?	express
J		different a
у.		aspec
7		aspects of yourself to others
		hers

Not at all

A great deal

		4.
	e-mail and/or newsgroup postings?	1. To what extent would your family and frie
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2	ewsgrou	would yo
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		read your

(offline)	Real Life	1 2	. Where do you feel better at
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		(A)	real self?
		6	.3
(online)	Internet	7	

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Not at all

A great deal

close relationship formation? One possible reason is the act of disclosing to the activation and expression of the true self during close relationships there. one's inner or 'true' feelings and personality (Derlega et al., 1993; Laurenceau, closeness and intimacy, as it entails being able to express and have accepted able to express. Self-disclosure is an important ingredient in the development of other person these important, inner or true self over the Internet should be more likely than others to develop Barrett, & Pietromonaco, 1998). Thus, those who more consistently present their Relationship Closeness via the Disclosure "inner" aspects of self which one is not usually of the True Self. Why should Internet interactions lead to

randomly assigned to meet each other for the first time over the Internet (via a such correlation in the face-to-face interaction conditions. interaction partner, and his or her degree of liking for the partner. There was no between how well the participant felt he or effect held even when the two participants met liked each other better and felt that they had chatroom) would tend to like each other more and develop a closer relationship (e.g., knowing the other person better) than did those who met face-to-face. This to meet face-to-face. As predicted, those meeting initially on the Internet both line with the posited role of self disclosure, there was a significant correlation Internet and once face-to-face, unaware that it was the same person each time. In (although the interaction only lasted for 20 minutes) compared to those assigned McKenna et al. (2002, Study 3) therefore developed a closer relationship each other twice, once over the tested whether undergraduates she had gotten to know the

true self on the Internet on the development of close relationships. effect" of Internet communication on the average person, one that facilitates had not been preselected for the study on any basis, including whether they located their 'Real Me' on the Internet versus real life. Thus there is a "main greater liking between the interaction partners occurred for undergraduates who relationship formation, and which is distinct from the effect of locating one's This effect of Internet communication to facilitate self-disclosure and produce

self, as opposed to the person's actual self concept (the person they feel they online, it does not offer direct evidence of the role played by the true-self relationship development because of the greater involvement of the true self was more accessible and activated while interacting online versus offline. In actually are with other people in typical social interactions; see Higgins, 1987), additional laboratory experiments in order to assess the degree to which the true concept. Study 1, participants first listed the characteristics of their actual self and also finding is consistent with the idea that the Internet fosters faster and closer Online Expression of the True versus Actual Self-Concepts. Therefore, we (Bargh, McKenna, & Fitzsimons, 2002) conducted Although this

relationships; the average survey respondent in the McKel scale was not as applicable to them. mid-30s. Most of the undergraduates who participated in the laboratory experiments described here were too young to have had much if any experience with online relationships and so the Real Me As shown in Table 9.1, the Real Me variable concerns past and existing experience with online nna et al. (2002) study was in his or her

chat-room, or face-to-face. Then they privately gave a free response description of their partner. We coded these descriptions of one's partner for matches with the partner's own description of both his or her actual self and analysis of variance on the numbers of these matches revealed the predicted of them, participants expressed more of their true than their actual selves over face-to-face interactions. As assessed by their partner's own candid descriptions true-self features than actual-self features, whereas the opposite was true of the interaction, such that over the Internet, participants successfully conveyed more Participants then interacted with a cross-sex partner either over an Internet true self. An

occurred only when the participant reported liking the partner; when there was no initial liking, no such projection occurred. In fact, the degree of projection (number of matches) was significantly correlated with degree of their ideal best friend, as assessed by the participant's ascribing to their partner, in their free response descriptions of him or her, features the participant had only, participants showed a tendency to project onto their partners aspects of previously listed as ideal, hoped-for qualities. Importantly, partner in an idealized way. more the initial liking, the more the participant was motivated to Motivated Projection of Ideal-Partner Qualities. In the Internet condition -indicating a motivated perception of the interaction partner. That is, the this projection see his or her

Murray, Holmes, and Griffin (1996) found that for (traditionally formed) relationships, the extent to which an individual idealized his or her partner predicted the closeness, intimacy, and stability of that relationship. Once relationships develop closeness more rapidly than do face-to-face relationships. relationship closeness. and projection of ideal qualities in the face-to-face condition, again, in our Study 1, there was no such correlation between Internet interactions uniquely foster such idealization and This projection tendency is probably an important reason for why Internet hence showing that initial liking greater

reasoned that the true-self concept should be more accessible during an Internet measured the relative activation or accessibility in memory of the actual versus engaged in a speeded self-judgment task, modeled after the online or face-to-face. to-face encounter. Participants again listed the qualities of their actual and their true selves, following which they interacted with a new acquaintance either interaction, and the actual-self concept relatively more accessible the true-self concepts, during face-to-face as well as Internet interactions. We Online Accessibility of True Versus Actual Self-Concepts. In Following the interaction, each participant individually during a face-Study 2, we "me/not-me"

> reaction time procedure of Markus (1977). In this task, participants responded screen in front of them to be self-descriptive. according to whether they considered the adjective presented on the computer with either the "me" or the "not me" key on each trial, as quickly as possible, out the predictions: content related to the participants' characteristics they had given earlier. The pattern of mean response times bore positive and negative adjectives were the participant's accessible following an Internet interaction than following a face-to-face interaction. interaction; content related to the participants' following a face-to-face interaction than following an Internet true self was more accessible Embedded in a larger list of actual self was more actual and true self

the other. That the true self becomes more activated than the actual self after just differential accessibility effects whether the interaction lasted 5 minutes or 15 amount of information that can be conveyed in one communication mode versus nearly immediate effect on bringing forth a person's true self. minutes of Internet interaction suggests that this interaction modality has a Additional conditions shed additional light: it did not matter for the obtained -thus the effect was not an artifact of possible differences in the

but did not actually have one. Thus the self-concept accessibility effects were shown to be a consequence of the Internet interaction experience itself. expect any interaction at all, showed greater accessibility of their actual than when participants merely anticipated an Internet versus a face-to-face interaction (or alternatively, the actual self did not become inhibited or less accessible) their true self concept. Thus, the default state appears to be for the actual self to Importantly on that note, all participants, and a control group that was not led to be more accessible for use than the true self-concept. Another condition showed that the true self did not become more accessible

otherwise. But a comparison of the content one's inner qualities, merely that the qualities expressed were more positive than demonstrate anything fundamentally important about disclosing and sharing than the actual-self descriptions, then the liking If it were the case that the true-self descriptions were more positive in content possibly greater positivity of the content of the liking and relationship closeness in these studies is not attributable descriptions showed if anything that the opposite was true-computing the mean trait adjective likability revealed that the true-self content was significantly less likability of the true versus actual self descriptions based on normative ratings of positive than was the actual-self content (but note, not negative: both means the true-self concept on increased liking and relationship closeness was strong were on the positive side of the scale). In other less positive than was that of the actual-self concept. enough to overcome the fact that the content of what was being expressed was Finally, that the greater expression of the true self produces relatively greater r words, the effect of expressing true compared to the actual self. of the true versus actual self and closeness results might not to the

Important New Self-Aspects Become a Social Reality

become important enough to the individual. or in interactive games—have the potential to move into 'real life' fellow electronic interest-group members or business colleagues, in relationships that begin over the Internetthem within our self concept and social identity. Thus, new acquai features of our inner identity, as soon as we have accepted and incorporated colleagues, they want to make these new aspects a social reality by sharing them with their 1982). We want those around us to accept and validate for us the important People don't keep new, important changes to their identity to themselves; rather family, and friends (Gollwitzer, 1986; Wicklund & -whether in e-mail exchanges with chat rooms, should they ntances and Gollwitzer,

criterion of stability (56%; see Hill et al., 1976). initially met face-to-face after the same time interval and using comparable if not greater than that found in previous studies of partners who acquaintanceships, 79% of friendships, and 71% of romantic partnerships in 1997 were still intact in 1999. The stability of these romantic partnerships is friendships and intimate relationships were remarkably durable: sense engaged in significantly more of these behaviors than did the other respondents. Moreover, a two-year followup survey found that these close instance, 5.3% of respondents had married someone they initially met online.) And in each case, those who located their true self on the Internet in an absolute which the survey respondents took these real life steps are rather striking. (For engaged, and getting married. As shown in Table 9.2, the frequencies with meeting them in person, and in many cases, moving in with them, becoming their real life. They did this by first calling their partners on the phone, then had been established over the Internet, people tended to eventually bring it into McKenna et al. (2002) did in fact find that when a close relationship the same 67% of.

CONCLUSIONS

Popular notions of the Internet as a social trap that replaces rich and rewarding 'real' relationships with weak and impoverished 'virtual' ones are largely incorrect. Although one's average e-mail interaction might be less rewarding or useful than one's average face-to-face interaction (e.g., Cummings et al., in press), this is tangential to the question of whether the relationships one forms over the Internet can become as important and satisfying as do ones formed out

of traditional, offline meetings. The research we have reviewed in this chapter strongly suggests they can, and do—with the critical mediator of this tendency the greater accessibility and expression of the individual's inner or true self on the Internet compared to face-to-face interactions. First, features of the Internet communication setting make it more likely that the true-self becomes active for

Table 9.2.

Location of "Real Me" and Probability of Online and Offline Activities Witt Internet Relationship Partner (McKenna et al., 2002, Study 1)

Become engaged	Have an affair	Meet in person	Telephone	Exchange Letters	Exchange Pictures	Talk in IRC	E-mail	Behavior	
4%	8%	42%	46%	35%	37%	35%	97%	Pure Off-Line	Incativ
9%	20%	56%	68%	59%	61%	52%	100%	re 'Tweeners Or	m of "Donl
13%	30%	62%	68%	61%	65%	63%	99%	Pure Online	
3.33	11.34	5.72	10.33	12.37	14.06	9.69	2.48	E (5, 240)	
<.037	<.0001	<.0035	<.0001	<.0001	< 0001	<.0001	<.086	Ю	

Note. "Pure Offline" respondents answered No to both questions 1 and 2, and less than 4 to the other three questions; "Pure Online" respondents answered Yes to both questions 1 and 2 and greater than 4 to the other three questions; "Tweeners" did not consistently locate their true self in one venue or the other. IRC = Internet Relay Chat, or electronic "chat-rooms".

A further 29 respondents, or 5.3% of the total sample, reported having married someone they initially met online. However, roughly half of these respondents spontaneously noted difficulty in answering the "real me" questions, because this very identity-important online relationship had now moved offline.

people in general (Bargh et al., 2002, Experiment 2). Second, there are individual differences in the extent to which an individual locates his or her true self online (McKenna et al., 2002, Study 1). Thus there is both a main effect of the Internet setting, as well as a "Person x Internet interaction," contributing to the probability that a given individual will form close relationships over the Internet.

make those relationships a social reality, to bring t one's true self and relationship partners, there is a and not on the Internet. Once those associative connections are formed between world. People are not content to leave important traditional interactions, then one will tend to form close partnersinteractions, it will tend to become linked to representations of those interaction To the extent that this true-self concept is -if instead one's true self concept is more likely to be activated during hem into one's new strong motivational pull to activated during Internet Internet relationships relationships there face-to-face

We classified respondents in this absolute way instead of relative to each other (e.g., a median split on scale scores) because otherwise all or most respondents could have considered their true selves to reside offine (or, conceivably, online), merely to varying degrees. Approximately 25% of respondents located their true self online, 25% located it off-line, with the 'tweeners comprising the rest of the sample.