The Surprising Power of Neighborly Advice

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Accessibility
The Surprising Power of Neighborly Advice

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Two experiments revealed that (i) people can more accurately predict their affective reactions to a future event when they know how a neighbor in their social network reacted to the event than when they know about the event itself and (ii) people do not believe this. Undergraduates made more accurate predictions about their affective reactions to a 5-minute speed date (n=25) and to a peer evaluation (n=88) when they knew only how another undergraduate had reacted to these events than when they had information about the events themselves. Both participants and independent judges mistakenly believed that predictions based on information about the event would be more accurate than predictions based on information about how another person had reacted to it.

People make systematic errors when attempting to predict their affective reactions to future events, and these errors have social (1–3), economic (4–8), legal (9, 10), and medical (11–12) consequences. For example, people have been shown to overestimate how unhappy they will be after receiving bad test results (23), becoming disabled (14, 19–21), or being denied a promotion (24), and to overestimate how happy they will be after winning a prize (6), initiating a romantic relationship (24), or taking revenge against those who have harmed them (3). Research suggests that the main reason people mispredict their affective reactions to future events is that they imagine those events inaccurately (25).

References and Notes

Materials and methods are available as supporting material on Science Online.

18. Single-letter abbreviations for the amino acid residues are as follows: A, Ala; C, Cys; D, Asp; E, Glu; F, Phe; G, Gly; H, His; I, Ile; K, Lys; L, Leu; M, Met; N, Asn; P, Pro; Q, Gln; R, Arg; S, Ser; T, Thr; V, Val; W, Trp; and Y, Tyr.
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Figs. S1 to S6
References
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We tested this hypothesis in two experiments. The events we studied were (i) speed dating, in which undergraduate women predicted how much they would enjoy a 5-min speed date with an undergraduate man, and (ii) peer-evaluation, in which undergraduates predicted how they would feel after being evaluated by a peer (38). In both experiments, we gave participants either information that allowed them to simulate the future event (simulation information) or information about the affective reaction of a fellow undergraduate who had experienced the same event in the past (surrogation information). We predicted that participants would make more accurate affective forecasts when they knew nothing about the future event and knew only how someone in their social network had reacted to it.

In experiment 1, we created a speed-dating service in which undergraduate men and women had brief “getting acquainted” conversations. We included 8 men and 33 women who were undergraduates at Harvard University, unmarried, and self-identified as heterosexual. There were eight speed-dating sessions, each of which included one of the eight men and between two and eight of the women. No one participated in more than one session. In each session, the man was first escorted to the speed-dating room, where he completed a short personal profile listing his name, age, height, hometown, and residence, as well as his favorite movie, sport, book, song, food, hang-out, and college class. His photograph was taken and printed. Next, a woman was escorted to the speed-dating room and left to have a 5-min private conversation with the man. Next, the experimenter escorted the woman to another room where she reported how much she had enjoyed the speed date by marking a 100-mm continuous “enjoyment scale” whose end points were marked not at all and very much. This report is hereinafter referred to as her affective report.

Next, a second woman was given one of two kinds of information: simulation information (which consisted of the man’s personal profile and photograph) or surrogation information (which consisted of the affective report provided by the first woman). The second woman was then asked to predict (on the enjoyment scale) how much she would enjoy her speed date with the man. This prediction is hereinafter referred to as her affective forecast.

After making her prediction, the second woman was shown the kind of information (simulation or surrogation) that she had not already received. We did this to ensure that each woman had the same information about the man before the actual speed date. The only difference between the two conditions, then, was whether the second woman had surrogation information or simulation information when she made her forecast.

Next, the second woman was escorted to the dating room, had a speed date, and then reported how much she enjoyed it (on the enjoyment scale). This report is hereinafter referred to as her affective report. The second woman also reported whether she believed that simulation information or surrogation information would have allowed her to make the more accurate prediction about the speed date she had and about a speed date that she might have in the future. This process was repeated in an alternating pattern for each additional woman until the session ended. [For a full description of the procedure, see (39)].

Affective forecasting error was calculated by taking the absolute difference between the affective forecast and affective report of each woman (except the first woman, who made no affective forecast). Raw data may be seen in fig. S1, a and b. Women were considerably more accurate when they used surrogation information (mean ± SD, 11.42 ± 8.70 mm) than when they used simulation information (22.38 ± 10.79 mm) [(t (23) = 2.78, P = 0.01)]. Relative to simulation, surrogation reduced the size of the affective forecasting error by 49%. Ironically, 75% of the women believed that simulation information would have allowed them to make a more accurate forecast about their date with the man they met, and 84% believed that simulation information would allow them to make a more accurate forecast about a future date with a different man.

One potential concern about these results is that the simulation information (which was provided by the men) may not have been entirely accurate, and its inaccuracy may have contributed to the inaccuracy of the forecasts that were based on it. The data do not support this suggestion. If men portrayed themselves as better than they actually were, then women who used simulation information should have overestimated how much they would enjoy the date. In fact, women underestimated how much they would enjoy the date (see supporting online text). Nonetheless, we conducted a second experiment in which simulation information was completely accurate. In addition, we collected data on the perceived utility of simulation and surrogation from an independent panel of judges rather than from the participants themselves.

Experiment 2 had three parts. In part one, 17 women and 8 men who were undergraduates at Harvard University served as surrogates. Surrogates were told that they would write a story and that a peer in an adjoining room would evaluate the story and use it to classify them as one of three personality types. These predictions are hereinafter referred to as the forecasters’ affective forecasts. After making these forecasts, forecasters in the surrogation condition were shown the descriptions of the three personality types.

All forecasters then wrote a story, were told that their peer had classified them as a type C, and reported how they felt (on the feeling scale). These reports are hereinafter referred to as the forecasters’ affective reports.

Affective forecasting error was calculated by taking the absolute value of the difference between each forecaster’s affective forecast and affective report. (Raw data may be seen in fig. S2, a and b). As in experiment 1, forecasters were considerably more accurate when they used surrogation information (12.50 ± 14.10 mm) than when they used simulation information (33.75 ± 22.01 mm) [(t (86) = 5.38, P < 0.001)]. Relative to simulation, surrogation reduced the size of the affective forecasting error by 63%.

In part three, 23 men and 40 women who were undergraduates at Harvard University served as judges. The judges were told about the procedure for part one and were asked to rank several pieces of information based on how useful each piece would be in allowing them to estimate the affective response of a participant. These included simulation information (complete descriptions of each of the three personality types) and surrogation information (the affective report of another randomly selected participant). Judges
believed that simulation information would be more useful (rank, mean ± SD, 1.45 ± 0.694) than surrogation information (2.1 ± 0.718) [t(61) = 4.18, P < 0.001].

In two experiments, participants more accurately predicted their affective reactions to a future event when they knew how a neighbor in their social network had reacted to it than when they knew about the event itself. Women made more accurate predictions about how much they would enjoy a date with a man when they knew how much another woman in their social network enjoyed dating the man than when they read the man’s personal profile and saw his photograph. Men and women made more accurate predictions about how they would feel after being evaluated by a peer when they knew how another person in their social network had felt after being evaluated than when they previewed the evaluation itself. Although surrogation trumped simulation, both participants and independent judges had precisely the opposite intuition (41). By a wide margin, they believed that simulation was more likely than surrogation to produce accurate affective forecasts.

Two points are worthy of note. First, surrogation is by definition superior to simulation when individual differences are relatively small and simulations errors are relatively large, and it is inferior to simulation when the opposite is true. Although there is no way to know which of these is more typical in everyday life, the situations we studied—dating and peer-evaluation—are by no means exotic. Furthermore, our experiments provided an especially conservative test of the power of surrogation because participants received surrogation information from a person who happened to attend the same university as they did but with whom they had no personal relationship. In everyday life, people are likely to receive surrogation information from those with whom they affiliate, and because people affiliate with those who are similar, their surrogates are even more likely to share their preferences and predilections. This suggests that the potential utility of surrogation information may be greater in vivo than our experiments suggest.

Second, although our experiments demonstrate the power of surrogation, they also suggest that people may not normally take advantage of this power. Our participants mistakenly believed that simulation was the superior strategy even after it had failed them, which suggests that people may be reluctant to engage in surrogation if they have the opportunity to do otherwise. Participants in the surrogation conditions of our experiments were unable to engage in mental simulation because they knew little or nothing about the future event and thus had no choice but to rely on the surrogation information we provided. But given people’s mistaken beliefs about the relative ineffectiveness of surrogation and their misplaced confidence in the accuracy of their own mental simulations (39), it seems likely that in everyday life, La Rochefoucauld’s advice—like the advice of good neighbors—is more often than not ignored. When we want to know our emotional futures, it is difficult to believe that a neighbor’s experience can provide greater insight than our own best guess.

References and Notes

34. Materials and methods are available as supporting material on Science Online.
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Supporting Online Material

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Materials and Methods

SOM Text

Figs. S1 and S2

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