



Available online at www.sciencedirect.com



Journal of Experimental Social Psychology xxx (2005) xxx–xxx

Journal of
Experimental
Social Psychology

www.elsevier.com/locate/jesp

The predictive value of daily vs. retrospective well-being judgments in relationship stability

Shigehiro Oishi ^{a,*}, Helen W. Sullivan ^b^a Department of Psychology, University of Virginia, 102 Gilmer Hall, VA 22904-4400, USA^b Department of Psychology, University of Minnesota, USA

Received 7 July 2004; revised 14 April 2005

Abstract

The present study examined the role of daily and retrospective judgments of well-being and relationship satisfaction in relationship longevity. Participating couples completed a 14-day diary report of well-being and relationship satisfaction. After the daily diary survey, they evaluated the 14-day period. Participants also rated their global relationship satisfaction at that time. Retrospective judgments of daily well-being predicted later relationship status better than daily ratings of well-being did, whereas daily ratings of relationship domain satisfaction predicted later status better than retrospective judgments of daily relationship domain satisfaction did. Furthermore, *global* relationship satisfaction predicted later relationship status better than *daily* ratings of relationship domain satisfaction did. In general, global, summary judgments had a greater predictive value of future relationship status than did specific, daily judgments. Finally, synchronicity of daily fluctuations of well-being between partners predicted later relationship status.

© 2005 Elsevier Inc. All rights reserved.

Keywords: Subjective well-being; Well-being judgments; Close relationships

Global self-reports are believed to be vulnerable to various kinds of judgmental biases such as memory bias and current mood effect (Schwarz & Strack, 1999). Based on these findings, Kahneman (1999) argued that happiness should be measured by recording online hedonic tones, which he called *objective happiness*, rather than retrospective and global reports of happiness, which he called *subjective happiness*. Many researchers now recommend the use of experience sampling, event sampling, daily diary methods, and daily reconstruction method which reduce memory biases and other extraneous effects (e.g., Kahneman, Krueger, Schkade, Schwarz, & Stone, 2004; Stone, Shiffman, & DeVries, 1999). Although judgmental biases in well-being measures are well-documented, the utility of various measures of well-being is not yet well-known. As recognized by

Kahneman (2000), we believe that judgmental biases themselves do not negate the importance of retrospective and global judgments in predicting future behavior. The present paper examines the utility of daily experiences vs. retrospective evaluation in an important behavioral outcome, namely, relationship stability.

Self-reports and judgments

Robinson and Clore (2002) classified self-reports into five types: online, retrospective, prospective, hypothetical, and time-inclusive reports. They argued that online reports are based mainly on experiential information and episodic memory, whereas retrospective, prospective, and time-inclusive reports are based on episodic memory (when available), situation-specific belief (e.g., “I get anxious during the mid-term period”), and identity-related belief (e.g., “I am an anxious person”).

* Corresponding author.

E-mail address: soishi@virginia.edu (S. Oishi).

Retrospective judgments are supposed to be based mainly on episodic memory if these judgments are made soon after the target event. As time passes, however, retrospective judgments become more and more dependent on semantic memory and beliefs. Similarly, when the time-frame is short (e.g., last 30 min), time-inclusive reports are based on experiences and episodic memory. However, as the time-frame becomes longer (e.g., last 2 weeks), they are based heavily on semantic memory and beliefs. Moreover, retrospective reports about a specific behavior (e.g., kindness to your partner) are different from reports about an abstract object (e.g., overall relationship quality) because an abstract object requires more integration in judgments (e.g., across times and domains) than does a specific target. In essence, the more integration judgments require, the more likely it is that these judgments become dependent on general beliefs.

Consistent with Robinson and Clore's (2002) belief model, Feldman Barrett (1997) showed that retrospective reports of the frequency of negative emotional experiences over the previous 90 days were predicted by neuroticism (which can be considered as an identity-belief about general negative emotional experiences), above and beyond the average of the actual negative emotional experiences (see Schimmack & Hartmann, 1997; for a case of repression; Christensen, Wood, & Feldman Barrett, 2003; for a case of self-esteem). Similarly, Robinson, Johnson, and Shields (1998) showed that although immediate emotional reactions to the experimental task were not different, men reported retrospectively having experienced pride and anger more than did women, and women reported retrospectively having experienced guilt and sympathy more than did men (see Oishi, 2002; Oishi & Diener, 2003 for similar cultural differences). These findings indicate that the time-inclusive retrospective judgments often depart from the actual frequency of emotional experiences, even when the retrospective judgments are made soon after the end of the experiences. A parallel difference also exists between specific and global reports. For instance, LaFrance and Banaji (1992) showed that gender differences in self-reported emotionality were more pronounced in global ratings than in specific ratings. Twenge and Campbell (2001) also found that self-esteem increased over time for the last 40 years when measured by global reports, whereas it did not change during the same period of time when measured by specific reports. Thus, even when the time-frame is identical, global ratings are likely to be more strongly influenced by general beliefs than are specific ratings.

In addition to the discrepancy between online and retrospective reports and between specific and global judgments, researchers have examined the utility of different types of judgments. In a series of ingenious studies, Kahneman, Fredrickson, Redelmeier, and colleagues have demonstrated that people's retrospective judg-

ments and self-reported choice on a related task are often heavily influenced by the peak and the end experience (e.g., Fredrickson & Kahneman, 1993; Kahneman, Fredrickson, Schreiber, & Redelmeier, 1993). For instance, Redelmeier and Kahneman (1996) demonstrated that retrospective reports about a colonoscopy were biased toward the peak and end experiences (i.e., the most painful moment and the pain in the end), and that their intention of repeating the same procedure was also predicted by these experiences, but not by the actual amount of time they were in pain. Recently, Wirtz, Kruger, Scollon, and Diener (2003) found that although the average online affective experience during spring break predicted participants' intention to repeat the vacation, the direct effect of the online affective experience was fully mediated by the retrospective judgment made at the end of the break.

There are three remaining issues in the previous research on the predictive value of retrospective judgments. First, unlike affective episodes previously examined (e.g., spring break), our daily affective experiences do not always have a clear beginning and end. We feel happy for someone and angry at someone with whom we have *ongoing* relationships (Berscheid & Reis, 1998). Thus, it is important to examine the predictive value of online experience vs. retrospective judgments in an ongoing, relationship context. Second, in the previous research the choice or decision was made soon after the episode ended and was hypothetical (e.g., "Would you take this same vacation over again?"). Thus, it is unclear whether participants in these experiments indeed repeated the same vacation or procedure when they encountered such a choice situation later. In the present research, we used relationship status 6 months after the assessment of daily well-being as the dependent variable to reduce such potential biases in the key decision task. Finally, because all the retrospective judgments in the previous research were global, summary judgments that required not only integration across times but also integration across domains (e.g., transportation, hotel), it was impossible to determine potential differences between specific and global retrospective judgments in predictive value. To this end, we asked participants to give retrospective reports on specific domains (e.g., "how satisfied are you with the way disagreement was resolved during the past 2 weeks?") as well as global targets (e.g., "how satisfied are you with the past 2 weeks?"). We were able to examine, therefore, the degree to which retrospective reports of specific relationship domains as well as global, summary reports about their lives during the 2-week period predicted the relationship status 6 months later.

Judgments of close relationships

156

In the close relationship literature, judgmental and memory processes have been extensively examined (see

157
158

159 Berscheid & Reis, 1998, for review). For example, Mur- 212
 160 rray and colleagues (e.g., Murray, Holmes, & Griffin, 213
 161 1996, 2003) repeatedly showed that positive illusions 214
 162 about the partner are associated with high relationship 215
 163 satisfaction. Individuals who are satisfied with their rela- 216
 164 tionship tend to view their romantic partner more favor- 217
 165 ably than the partner views himself or herself. There is a 218
 166 parallel phenomenon in memories of the partner's 219
 167 behaviors and the relationship. For instance, in a 4-year 220
 168 longitudinal study, Sprecher (1999) found that the cou- 221
 169 ples who stayed in the same relationship throughout the 222
 170 study reported that their love, commitment, and satisfac- 223
 171 tion were increasing every year, although actual annual 224
 172 reports indicated otherwise (see also Frey & Karney, 225
 173 2004; Karney & Frye, 2002; McFarland & Ross, 1987).
 174 Furthermore, beliefs about increases in love and com-
 175 mitment were associated with current feelings about the
 176 relationship and relationship stability. Spencher's find-
 177 ings highlight the critical role of beliefs about the rela-
 178 tionship in relationship stability.

179 Robinson and Clore's (2002) belief model of self- 228
 180 reports suggests that retrospective reports about specific 229
 181 relationship behaviors are derived mainly from situa- 230
 182 tion-specific beliefs (e.g., "I am witty when I am with my 231
 183 boyfriend"), whereas global retrospective reports are 232
 184 based on identity-beliefs (e.g., "My relationship is just 233
 185 OK"). Because an overall evaluation about the relation- 234
 186 ship and life is likely to be more relevant to the decision 235
 187 to stay together or break up than are specific evalua- 236
 188 tions, we hypothesized that global, summary judgments 237
 189 about the relationship would be a stronger predictor of 238
 190 the later relationship status than would specific retro- 239
 191 spective judgments. Second, because many of the daily 240
 192 behaviors and feelings do not stay in long-term memory, 241
 193 we hypothesized that the average daily ratings would not 242
 194 be as strong a predictor of the later relationship status as 243
 195 would retrospective ratings.

196 Interdependence theory

197 In addition to testing the relative importance of daily 245
 198 vs. retrospective judgments, and specific vs. global judg- 246
 199 ments of well-being and relationship satisfaction, our 247
 200 second goal was to test Kelley et al.'s (1983) interdepen- 248
 201 dence theory of close relationship in a novel way. High 249
 202 interdependence is characterized by frequent, strong, 250
 203 and diverse kinds of impact on each other for a long 251
 204 period of time. Berscheid, Snyder, and Omoto (1989) cre- 252
 205 ated a self-report scale that assesses the degree of inter- 253
 206 dependence. These researchers then successfully 254
 207 demonstrated that diversity and strength subscales pre- 255
 208 dicted relationship dissolution 9 months later (see also 256
 209 Simpson, 1987). Yet another way of operationalizing the 257
 210 degree of interdependence between two people is to
 211 assess the degree to which one's daily well-being ratings

covary with their partner's daily well-being ratings (cf. 212
 Anderson, Keltner, & John, 2003). After all, if partners 213
 are highly interdependent, their daily well-being should 214
 fluctuate in a similar fashion. In other words, the higher 215
 the interdependence, the greater the covariation should 216
 be between two individuals' daily well-being ratings. 217
 Finally, the higher the degree of interdependence, the 218
 more stable the relationship should be. 219

In sum, the present research builds on and extends the 220
 previous research by testing a key theoretical issue in the 221
 well-being research in a daily, romantic relationship con- 222
 text, while simultaneously examining one of the most 223
 influential theories in close relationships using a new 224
 method. 225

Method 226

Participants 227

We recruited new dating couples via a student news- 228
 paper at the University of Minnesota. We defined a new 229
 dating couple as a couple who had been dating for less 230
 than 3 months. We recruited only new dating couples to 231
 minimize pre-existing between-couple differences in 232
 duration of the relationship, as it is known to be related 233
 to relationship quality and stability (e.g., Berscheid & 234
 Reis, 1998). Eighty-six heterosexual dating couples who 235
 met the criteria for participation responded to our news- 236
 paper advertisement. One-hundred and forty-two partic- 237
 ipants identified themselves as European American 238
 (82.6%), seven as Asian or Asian American (4.1%), three 239
 as African American, one as Hispanic American, four as 240
 other (15 did not specify). The average age was 20.72 241
 years ($SD = 3.12$). Participants received \$25 per person 242
 for their participation. 243

Procedure and materials 244

An experimenter met with each couple and explained 245
 the procedure of the study at the initial meeting. They 246
 were told that this study concerned daily satisfaction of 247
 newly dating couples. The participants completed a 248
 short questionnaire at the initial meeting (Time 1). We 249
 assessed the couple's global evaluations of relationship 250
 satisfaction by six items,¹ four of which came from Mur- 251
 ray, Holmes, Dolderman, and Griffin (2000) 4-item rela- 252
 tionship satisfaction scale (e.g., "I have a very strong 253
 relationship with my partner," "I am extremely happy 254
 with my current romantic relationship"). Participants 255
 rated them on a 9-point scale, 1 = not at all true to 256
 9 = absolutely true ($\alpha = 0.82$). After the information ses- 257

¹ Two additional items were "I am very optimistic about the future of this relationship" and "I feel insecure about my relationship with my partner" (reversed item).

258 sion, they were instructed to go to a designated website
 259 every night and complete a short daily survey individu-
 260 ally for 14 consecutive days. The experimenter checked
 261 the database every morning and sent a reminder email to
 262 the participants who had not completed the daily survey
 263 the previous night. They were not allowed to make up a
 264 survey, except when they had no internet access (e.g.,
 265 camping over the weekend). Compliance was excellent.
 266 On average, participants completed 13.47 daily surveys
 267 ($SD = 3.30$).

268 We assessed participants' daily well-being with two
 269 global items: "How was today?" on a 7-point scale,
 270 1 = terrible to 7 = excellent, and "How satisfied are you
 271 with your life today?" on a 7-point scale, 1 = very dissat-
 272 isfied to 7 = very satisfied ($\alpha = 0.86^2$). In addition, they
 273 rated their satisfaction with 12 specific relationship
 274 domains everyday on the same 7-point scale: the partner,
 275 relationship with partner, sex life, partner's physical
 276 appearance, partner's social skills, partner's intelligence,
 277 support from partner, interactions with partner, time
 278 spent together with partner, the way disagreements were
 279 resolved, physical/ sexual intimacy with partner, and
 280 psychological intimacy with partner ($\alpha = 0.94$), and 6
 281 non-relationship domains: academic performance,
 282 health, self, friends, professors/TAs, and weather
 283 ($\alpha = 0.70$).

284 We also assessed the perceptions of the self and the
 285 partner using a 10-item scale, which was culled from
 286 Murray et al.'s (1996) 22-item interpersonal qualities
 287 scale. Participants were asked to indicate how well each
 288 of the 10 specific behaviors described their partner that
 289 day when they were with him/her on a 9-point scale
 290 ranging from 1 = not at all characteristic to
 291 9 = completely characteristic of him/her. Positive behav-
 292 iors of the partner were kind/affectionate, witty/fun,
 293 responsive to your needs, sociable, and patient ($\alpha = 0.94$),
 294 and negative behaviors of the partner were critical/judg-
 295 mental, controlling/dominant, moody/irritable, distant,
 296 and jealous ($\alpha = 0.87$). They were also asked to indicate
 297 how well each of the 10 behaviors described themselves
 298 when they were with their partner that day using the
 299 same 9-point scale ($\alpha = 0.94$ for positive, 0.87 for nega-
 300 tive behaviors of the self).

301 When participants completed the 2-week daily sur-
 302 veys, they met with the experimenter and completed a
 303 short questionnaire (Time 2). Included in the Time 2
 304 questionnaire were two global well-being items that cor-
 305 respond to the two daily well-being items: "How were
 306 the last two weeks?" and "How satisfied are you with
 307 your life during the past two weeks?" rated on the same
 308 7-point scales ($\alpha = 0.83$). Participants also rated their sat-
 309 isfaction with the 12 specific relationship domains

($\alpha = 0.94$) and the six non-relationship domains 310
 ($\alpha = 0.69$) during the 2-week period. They also completed 311
 the perceptions of the self and the partner during the 2- 312
 week period on the same 10-item scales ($\alpha = 0.92$ for the 313
 positive behaviors of the self, .88 for the negative behav- 314
 iors of the self, .88 for the positive behaviors of the part- 315
 ner, .88 for the negative behavior of the partner). We also 316
 assessed their global relationship satisfaction again using 317
 the same scale used at Time 1 ($\alpha = 0.89$). 318

319 Out of the original 86 couples, 7 couples (8.14%) did
 320 not complete the daily and/or Time 2 questionnaire. Six
 321 months later, participants were contacted via email and
 322 were asked their relationship status. Out of the 79 cou-
 323 ples who completed the daily, Time 1, and Time 2 ques-
 324 tionnaires, 65 couples indicated their relationship status
 325 6 months after the completion of the Time 2 question-
 326 naire. Out of the 65 couples, 48 couples (73.8%) were still
 327 in the same relationship and 17 (26.2%) were not in the
 328 same relationship 6 months later.

Results 329

Were retrospective judgments biased? 330

331 Table 1 shows average daily ratings and retrospective
 332 ratings for men and women separately, and paired *t* tests
 333 comparing average daily with retrospective ratings for
 334 men and women separately. With the exception of daily
 335 well-being (e.g., "how was today?"), which already
 336 involves aggregation across various domains, retrospec-
 337 tive judgments were significantly higher than the average
 338 daily ratings for both men and women. Separate analy-
 339 ses for men and women are, however, suboptimal
 340 because dependency between men and women in our
 341 data (i.e., dyadic nature of our data structure) is not
 342 taken into account. Thus, we tested whether retrospec-
 343 tive judgments made at the end of the daily study signifi-
 344 cantly deviated from the average of actual daily ratings
 345 for each variable with multilevel random coefficient
 346 models (MRCM) using hierarchical linear analysis
 347 (HLM 5.04, Raudenbush, Bryk, Cheong, & Congdon,
 348 2001). Our data consist of three levels: within-individual
 349 (repeated measures, Level 1), between-individual, within-
 350 couple (Level 2), and between-couple (Level 3).³ This
 351 analysis is conceptually equivalent of the paired *t*-test
 352 reported in Table 1, but also takes into account the
 353 within-couple dependency between men and women,
 354 and the nested nature of our data. Similar to

² Cronbach's α for daily measures reported in text were computed at the level of day across all the participants.

³ Although in a typical multilevel random coefficient model daily ratings would be modeled at Level 1 and retrospective ratings would be modeled at Level 2, in this analysis both were modeled at Level 1. The main reason was that the central question here is concerned with the mean differences between the retrospective and the average daily judgments, not with the degree of covariation between them.

Table 1

Means (SDs) of actual and recalled daily well-being, daily positive and negative behaviors of the self and the partner, and relationship satisfaction and global life satisfaction before and after the daily diary study for men and women

	Actual	Recalled	Paired <i>t</i>	<i>r</i>
<i>Men</i>				
Daily well-being	5.62 (0.56)	5.62 (0.87)	0.05	0.77**
Daily relation domain satisfaction	5.91 (0.69)	6.11 (0.82)	−3.77**	0.82**
Daily positive behavior of Self	6.62 (1.15)	7.01 (1.25)	−4.10**	0.80**
Daily negative behavior of self	2.17 (1.12)	2.47 (1.34)	−3.21**	0.82**
Daily positive behavior of partner	6.75 (1.07)	7.34 (1.04)	−6.45**	0.76**
Daily negative behavior of partner	2.17 (1.10)	2.38 (1.35)	−2.52*	0.87**
	Time 1	Time 2		
Global relationship satisfaction	7.89 (1.09)	7.79 (1.22)	0.73	0.52**
Satisfaction with life scale	26.58 (5.26)	27.78 (4.45)	−2.44*	0.70**
<i>Women</i>				
Daily well-being	5.55 (0.57)	5.57 (0.84)	−0.19	0.61**
Daily relation domain satisfaction	5.99 (0.58)	6.22 (0.70)	−4.99**	0.79**
Daily positive behavior of self	6.78 (1.17)	7.32 (1.07)	−5.40**	0.75**
Daily negative behavior of self	2.07 (1.09)	2.37 (1.33)	−4.00**	0.90**
Daily positive behavior of partner	7.09 (1.12)	7.59 (1.09)	−5.38**	0.77**
Daily negative behavior of partner	1.83 (0.94)	2.05 (1.14)	−2.84**	0.84**
	Time 1	Time 2		
Global relationship satisfaction	7.95 (0.96)	8.02 (1.08)	−0.58	0.60**
Satisfaction with life scale	27.21 (4.92)	27.95 (4.38)	−1.59	0.68**

Note. *N* = 80 couples.

Daily well-being was rated on a 1–7 point scale. Other scales were rated on a 1–9 point scale. *R* indicates a correlation coefficient between actual and recalled ratings.

* *p* < .05.

** *p* < .01.

355 Barnett, Marshall, Raudenbush, and Brennan (1993)
 356 married couple study, we created two dummy codes at
 357 Level 1. Each average daily rating was given 1 and a ret-
 358 rospective rating was given 0 for the first dummy code,
 359 D1; an average daily rating was given 0 and a retrospec-
 360 tive rating was given 1 for the second dummy code, D2.
 361 This full-rank dummy coding was used to simulate a
 362 multivariate regression, in which a pair of outcome vari-
 363 ables can be tested simultaneously (Gonzalez & Griffin,
 364 2002). The Level 1 model was as follows: $Y = \beta_1 * D_1 +$
 365 $\beta_2 * D_2 + r$. There is no intercept in Level 1 because in this
 366 model when D_1 and D_2 were both zero (although in real-
 367 ity there is no such case), “*y*” should be zero, too. Level 2
 368 model was as follows: $\beta_1 = \gamma_{01} + u \cdot \beta_2 = \gamma_{02}$. In Level 2, γ_{01}
 369 indicates the mean of daily ratings, whereas γ_{02} indicates
 370 the mean of a retrospective rating. Because there were no
 371 gender differences in any of the variables in Table 1, we
 372 did not include sex at Level 2. We did not include any
 373 predictors at Level 3 because our hypotheses here were
 374 not concerned with between-couple differences, but
 375 instead concerned with the difference between γ_{01} and
 376 γ_{02} .

377 To test the difference between a daily average and a
 378 retrospective rating, we compared the baseline model
 379 that allows γ_{01} and γ_{02} to be different with the model that
 380 constrains γ_{01} and γ_{02} to be the same (i.e., daily
 381 average = retrospective rating). This is conceptually

382 equivalent to the model comparison approach in struc-
 383 tural equation modeling (SEM). Analogous to a χ^2
 384 difference in SEM, a significant χ^2 coefficient here indi-
 385 cates that the constrained model is a worse fit than the
 386 baseline model. In the present context, the significant χ^2
 387 coefficient indicates a significant mean difference
 388 between the average daily and retrospective ratings.
 389 When we examined the daily and retrospective ratings of
 390 positive behaviors of the self, using the aforementioned
 391 HLM model, we found a significant difference between
 392 them, $\chi^2(1) = 8.79, p < .01$. As seen in the relevant
 393 descriptive statistics in Table 1, when making retrospec-
 394 tive judgments, our participants thought that they exhib-
 395 ited more positive behaviors (e.g., kind) toward their
 396 partner than when they made actual daily ratings. Simi-
 397 larly, when they made retrospective judgments, our par-
 398 ticipants thought that their partner exhibited more
 399 positive behaviors toward them than when they rated
 400 their partner every day, $\chi^2(1) = 14.67, p < .01$. Our partic-
 401 ipants also reported a higher level of relationship
 402 domain satisfaction (e.g., sex, intimacy) at the time of
 403 retrospective judgments than during the corresponding
 404 daily period, $\chi^2(1) = 9.69, p < .01$. Interestingly, our par-
 405 ticipants also indicated at the time of retrospective judg-
 406 ments that they exhibited more negative behaviors (e.g.,
 407 critical) toward their partner during the 2-week period
 408 than when they rated their behaviors every day,

Table 2

The relative predictive value of daily vs. retrospective ratings on later relationship status: HLM Bernoulli model analyses

	Separate		Simultaneous	
	β (SE)	<i>t</i> value	β (SE)	<i>t</i> value
Daily well-being	0.79 (0.34)	2.35*	-0.66 (0.65)	-1.01
Retro daily well-being	0.88 (0.27)	3.22**	1.27 (0.49)	2.58*
Daily relation domain satisfaction	1.04 (0.35)	2.94**	1.14 (0.55)	2.08*
Retro relation domain satisfaction	0.75 (0.28)	2.66*	-0.05 (0.49)	-0.10
Daily positive behavior of self	0.33 (0.16)	2.15*	0.17 (0.25)	0.66
Retro positive behavior of self	0.33 (0.16)	2.10*	0.21 (0.25)	0.81
Daily negative behavior of self	-0.10 (0.15)	-0.70	-0.07 (0.31)	-0.23
Retro negative behavior of self	-0.08 (0.13)	-0.62	-0.03 (0.28)	-0.11
Daily positive behavior of partner	0.31 (0.16)	1.96*	0.09 (0.26)	0.33
Retro positive behavior of partner	0.36 (0.17)	2.17*	0.30 (0.27)	1.09
Daily negative behavior of partner	0.01 (0.17)	0.05	0.13 (0.34)	0.37
Retro negative behavior of partner	-0.02 (0.14)	-0.16	-0.12 (0.29)	-0.40
Daily relation domain satisfaction	1.04 (0.35)	2.94**	0.50 (0.43)	1.16
T2 global relationship satisfaction	0.74 (0.22)	3.33**	0.59 (0.26)	2.25*

Note. Relationship status was coded as follows: broke up = 0, stayed together = 1. “ β ” denotes an unstandardized regression coefficient. In the separate analyses, daily or retrospective rating was the only predictor. In the simultaneous analyses, both daily and retrospective ratings were predictors. Level 1 model was as follows: Status = $\beta_0 + \beta_1 * \text{daily}(\text{male}) + \beta_2 * \text{daily}(\text{female}) + \beta_3 * \text{retro}(\text{male}) + \beta_4 * \text{retro}(\text{female}) + \text{error}$. Because constraining β_1 and β_2 , and β_3 and β_4 to be the same resulted in no significant change in overall fit of the model, we constrained β_1 and β_2 to be the same as β_3 and β_4 , respectively, in the analyses shown above.

* $p < .05$.** $p < .01$.

409 $\chi^2(1) = 4.57, p < .05$. Consistent with previous research
 410 on social judgments (e.g., Kahneman, 1999; Ross, 1989),
 411 therefore, participants’ retrospective judgments about
 412 relationship behaviors significantly deviated from the
 413 actual daily ratings, with the exception of daily negative
 414 behavior of the partner, $\chi^2(1) = 2.22, p = .13$, and daily
 415 well-being, $\chi^2(1) = 0.10, n.s.$ ⁴

416 What predicted relationship status 6 months later?

417 Next, we explored which daily ratings would predict
 418 the relationship status 6 months later. Because the
 419 dependent variable here is relationship status 6 months
 420 after the completion of the daily diary study, which is the
 421 same for both members of the couple, the data structure
 422 is quite different from the previous analyses. We used a
 423 Bernoulli model of HLM because the dependent vari-
 424 able here was dichotomous. We first predicted relation-
 425 ship status from the daily report by male participants
 426 and the daily report by female participants. Thus, Level
 427 1 model was as follows: status = $\beta_0 + \beta_1 * \text{daily}(\text{male})$
 428 $+ \beta_2 * \text{daily}(\text{female}) + r$. We tested sex differences by compar-
 429 ing the two models: the baseline model in which β_1
 430 and β_2 were allowed to be different and the constrained
 431 model, in which β_1 and β_2 were constrained to be the
 432 same. We also repeated the same analyses using the ret-

rospective judgments. There were no sex differences in
 any variables. The first column of Table 2, labeled “Sep-
 arate” describes the results from these analyses. When
 examined separately, both daily ratings and retrospec-
 tive judgments of well-being, relationship domain satis-
 faction, positive behaviors of the self, and the partner
 predicted later relationship status. In contrast, neither
 daily ratings nor retrospective judgments of negative
 behavior of the self and the partner predicted later rela-
 tionship status.

We then tested the critical issue of the relative predic-
 tive values of daily vs. retrospective ratings. This time we
 included both daily and retrospective ratings at Level 1:
 status = $\beta_0 + \beta_1 * \text{daily}(\text{male}) + \beta_2 * \text{daily}(\text{female}) + \beta_3 * \text{retro}$
 (male) $+ \beta_4 * \text{retro}(\text{female}) + r$. Again, we were able to con-
 strain β_1 and β_2 , and β_3 and β_4 to be the same without
 compromising the overall fit of the model (this was the
 case for all the analyses below). Consistent with our
 hypothesis, the retrospective judgment of daily well-being
 (i.e., global retrospective judgment) was a significant pre-
 dictor of later relationship status, whereas the average
 daily well-being (i.e., global daily judgment) was not (see
 the “Simultaneous” column of Table 2). Given that the
 average daily well-being was a significant predictor of
 later relationship status when the retrospective report was
 not included in the equation, and that daily well-being was
 significantly associated with the retrospective report (see
 Table 1), the present findings indicate that the direct effect
 of the average daily well-being was mediated by the retro-
 spective report of daily well-being.

Next, we tested the predictive value of daily relation-
 ship domain satisfaction and the retrospective judgment

⁴ It should be noted that the significant departure from the actual daily ratings does not mean that retrospective judgments were inaccurate (see Funder & Colvin, 1991). In terms of the rank-order of individuals on the perceptions of the self and partner, there was a large degree of stability (see Table 1).

of daily relationship domain satisfaction. The results were the complete opposite of the analysis with daily well-being. Namely, the average daily relationship domain satisfaction (i.e., daily, specific judgment) was a significant predictor of later relationship status, whereas the retrospective judgment (i.e., retrospective, specific judgment) was not (see Table 2). We then tested the predictive value of daily and retrospective ratings of positive behaviors of the self (i.e., daily, specific vs. retrospective, specific judgments). Although, respectively, each of these variables predicted later relationship status, neither of them was significant when both were simultaneously included. Similarly, although, respectively, each of the daily and retrospective rating of positive behavior of the partner predicted later relationship status, neither was significant when both were simultaneously included.

Because we also assessed global relationship satisfaction at the end of the daily diary study, we were able to examine the relative predictive value of daily relationship domain satisfaction (i.e., daily, specific judgment) vs. global relationship satisfaction (i.e., global, summary judgment), which presents an interesting test for the relative importance of specific vs. global summary judgments. Although daily relationship domain satisfaction

was a strong predictor of later relationship status in the previous analysis (against the retrospective report of daily relationship domain satisfaction), daily relationship domain satisfaction was no longer a predictor of later relationship status when global relationship satisfaction at Time 2 was included (see Table 2). Thus, the direct effect of daily relationship domain satisfaction, which assessed daily satisfaction with specific relationship domains, on later relationship status was mediated by global relationship satisfaction, which is a summary judgment about the relationship.

Did peak and end experiences predict the later relationship status?

We then examined whether the peak (highest rating over 14 days) and the end (the final day rating) experiences predicted later relationship status. As seen in Table 3, peak daily well-being, relationship domain satisfaction, and positive behavior of the self predicted relationship status 6 months later. In contrast, none of the end reports predicted later relationship status. Because previous research showed the relative predictive power of the peak and the end experience over the average ratings (e.g., Fredrickson & Kahneman, 1993), we conducted the

Table 3

The relative predictive value of peak/end ratings vs. daily ratings on later relationship status: HLM Bernoulli model analyses

	Separate		Simultaneous	
	β (SE)	<i>t</i> value	β (SE)	<i>t</i> value
Peak daily well-being	0.91 (0.37)	2.48*	0.65 (0.55)	1.18
Daily well-being			0.32 (0.50)	0.64
Peak relation domain satisfaction	0.86 (0.36)	2.42*	-0.34 (0.63)	-0.54
Daily relation domain satisfaction	1.28 (0.48)	2.67*		
Peak positive behavior of self	0.39 (0.20)	1.97*	0.10 (0.35)	0.29
Daily positive behavior of self			0.26 (0.27)	0.96
Peak negative behavior of self	-0.03 (0.09)	-0.29	0.14 (0.20)	0.67
Daily negative behavior of self			-0.30 (0.33)	-0.91
Peak positive behavior of partner	0.28 (0.19)	1.49	-0.07 (0.32)	-0.23
Daily positive behavior of partner			0.36 (0.26)	1.39
Peak negative behavior of partner	-0.00 (0.09)	-0.00	-0.01 (0.21)	-0.06
Daily negative behavior of partner			0.03 (0.37)	0.07
End daily well-being	0.01 (0.18)	0.03	-0.36 (0.31)	-1.15
Daily well-being			0.98 (0.41)	2.37*
End relation domain satisfaction	0.15 (0.22)	0.68	-0.17 (0.33)	-0.52
Daily relation domain satisfaction	0.86 (0.60)	1.44		
End positive behavior of self	0.11 (0.15)	0.76	0.28 (0.25)	1.13
Daily positive behavior of self			-0.28 (0.33)	-0.86
End negative behavior of self	-0.03 (0.13)	-0.25	0.00 (0.30)	0.01
Daily negative behavior of self			-0.05 (0.39)	-0.13
End positive behavior of self	0.03 (0.14)	0.22	0.10 (0.19)	0.52
Daily positive behavior of self			-0.13 (0.22)	-0.58
End negative behavior of partner	-0.05 (0.13)	-0.36	-0.31 (0.31)	-0.99
Daily negative behavior of partner			0.40 (0.43)	0.93

Note. ** $p < .01$. Relationship status was coded as follows: broke up = 0, stayed together = 1. “ β ” denotes an unstandardized regression coefficient. In the separate analyses, peak/end rating was the only predictor. In the simultaneous analyses, both peak/end and daily/retrospective ratings were predictors. Level 1 model was as follows: status = $\beta_0 + \beta_1$ *peak/end(male) + β_2 *peak/end(female) + β_3 *daily(male) + β_4 *daily(female) + error. Because constraining β_1 and β_2 , and β_3 and β_4 to be the same resulted in no significant change in overall fit of the model, we constrained β_1 and β_2 to be the same as β_3 and β_4 , respectively, in the analyses shown above. Results for daily ratings in separate analyses are reported in Table 2.

* $p < .05$.

513 equivalent test of this. To our surprise, none of the peak
514 reports predicted later relationship status, above and
515 beyond the average daily ratings (see the “Simulta-
516 neous” column in Table 3). It should also be noted that
517 retrospective ratings of daily well-being predicted later
518 relationship status, above and beyond the end report,
519 $\beta = 0.98$, $t = 2.37$, $p < .05$, indicating the predictive value
520 of retrospective judgments of daily well-being was not
521 due to the closeness in time to when later relationship
522 status was measured.

523 Synchronicity in daily well-being: A test of the 524 interdependence theory

525 Based on the interdependence theory of interpersonal
526 relationships (Kelley et al., 1983), we hypothesized that
527 the higher the interdependence, the greater the covaria-
528 tion should be between two individual’s daily well-being.
529 We tested this hypothesis using 2-level HLM⁵. At Level
530 1 (within-couple), day t well-being of each male partici-
531 pant was predicted from their female partner’s day t
532 well-being: day t male’s well-being = $\beta_0 + \beta_1 * \text{female}$
533 partner’s day t well-being + r . Female partner’s daily
534 well-being was centered around her own mean over 14
535 days. Thus, β_0 indicates male partner’s daily well-being
536 on a day when female partner’s daily well-being was her
537 average. β_1 indicates the degree of psychological interde-
538 pendence because it reflects a change in male’s daily
539 well-being associated with female’s change in her daily
540 well-being. At Level 2 (between-couple), Level 1 inter-
541 cept, β_0 , and regression coefficient, β_1 , were predicted
542 from later relationship status: $\beta_0 = \gamma_{00} + \gamma_{01} * \text{status} + u$;
543 $\beta_1 = \gamma_{10} + \gamma_{11} * \text{status} + u$. Status was coded as 0 if the cou-
544 ple broke up within 6 months and 1 if the couple was still
545 together 6 months later. This coding leads γ_{00} and γ_{10}
546 to indicate average β_0 and β_1 , respectively, for the couples
547 who broke up within 6 months.

548 Among the couples who broke up within 6 months,
549 the degree to which female’s daily well-being was associ-
550 ated with her male partner’s daily well-being was posi-
551 tive and marginally different from zero, $\gamma_{10} = 0.12$,
552 $t = 1.78$, $p = .07$. Consistent with our hypothesis, this
553 within-couple covariation of daily well-being was signifi-
554 cantly larger among the couples who were still in the
555 relationship 6 months later than among the couples who
556 broke up within the following 6 months, $\gamma_{11} = 0.17$,
557 $t = 2.03$, $p < .05$. On a day when a female partner’s daily

well-being was 1 point higher than her typical day, male
558 partner’s daily well-being was 0.12 higher than his typi-
559 cal day among the couples who broke up within 6
560 months. On a day when a female partner’s daily well-
561 being was 1 point higher than her typical day, male part-
562 ner’s daily well-being was 0.29 (from $0.12 + 0.17$) higher
563 than his typical day among the couples who stayed
564 together (see Fig. 1).
565

566 We repeated this analysis on other key variables.
567 Somewhat surprisingly, the size of within-couple covari-
568 ation did not differ between the two types of couples in
569 terms of daily positive behaviors of the self, $\gamma_{11} = 0.06$,
570 $t = 0.65$, *n.s.*, daily negative behavior of the self,
571 $\gamma_{11} = -0.05$, $t = -1.01$, *n.s.*, daily relationship domain sat-
572 isfaction, $\gamma_{11} = -0.03$, $t = -0.25$, *n.s.*, or daily non-rela-
573 tionship domain satisfaction, $\gamma_{11} = 0.04$, $t = 0.47$, *n.s.*

574 Finally, we examined whether the degree to which a
575 female participant’s daily relationship domain satisfac-
576 tion was associated with her partner’s overall daily well-
577 being was different across couples, depending on their
578 later relationship status using the 2-level HLM analysis.
579 Level 1 (within-couple) model was as follows: male’s day
580 t well-being = $\beta_0 + \beta_1 * \text{female’s day } t \text{ relationship}$
581 domain satisfaction + r . Level 1 intercept, β_0 , and regres-
582 sion coefficient, β_1 , were predicted from later relation-
583 ship status at Level 2 (between-couple): $\beta_0 = \gamma_{00} + \gamma_{01}$
584 $* \text{status} + u$; $\beta_1 = \gamma_{10} + \gamma_{11} * \text{status} + u$. Among the couples
585 who broke up within 6 months, male participant’s daily
586 well-being was marginally associated with female part-
587 ner’s daily relationship domains satisfaction, $\gamma_{10} = 0.19$,
588 $t = 1.89$, $p = .06$. More important, the degree of within-
589 couple covariation was marginally larger among the

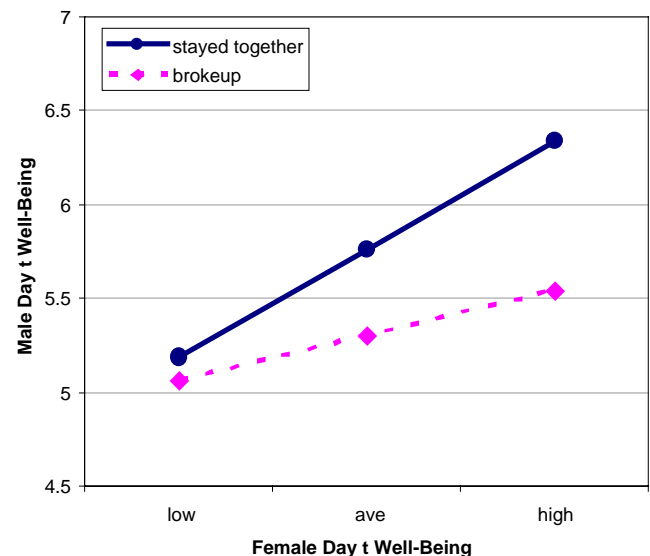


Fig. 1. Synchronicity of daily well-being among couples who stayed in the relationship and couples who broke up within 6 months. Note. “Low” in X-axis indicates two points below each individual’s own daily average, whereas “high” indicates two points higher than each individual’s own daily average.

⁵ In addition to the 2-level model discussed here, we also conducted a 3-level model, in which daily ratings were modeled at Level 1 (within-individual), sex was modeled at Level 2 (within-couple), and later relationship status was modeled at Level 3 (between-couple). The 3-level showed the same moderation effect of the relationship stability found in the 2-level analysis. For simplicity, we present the results from the 2-level model. Likewise, a 3-level analysis on the relationship domain satisfaction and daily well-being revealed the significant moderation effect of the relationship stability.

590 couples who stayed together than among the couples
 591 who broke up within 6 months, $\gamma_{11} = 0.22$, $t = 1.81$,
 592 $p = .07$. In other words, on a day when female's daily
 593 relationship domain satisfaction was 1 point higher than
 594 her typical day, her partner's daily well-being was 0.19
 595 higher than his typical daily well-being among the cou-
 596 ples who broke up within 6 months. In contrast, on a day
 597 when female's daily relationship domain satisfaction was
 598 1 point higher than her typical day, her partner's daily
 599 well-being was 0.41 (from $0.19 + 0.22$) higher than his
 600 typical day among the stable couples (see Fig. 2). In
 601 short, the female partner's daily relationship domain sat-
 602 isfaction appears to affect the male partner's overall
 603 daily well-being (and vice versa) more strongly among
 604 stable couples than among unstable couples.

605 Discussion

606 We examined the predictive value of daily vs. retro-
 607 spective judgments in relationship stability using the 14-
 608 day diary method. This study revealed several intriguing
 609 phenomena. First, participants overestimated daily rela-
 610 tionship domain satisfaction, positive behaviors of the
 611 self and the partner when making retrospective judg-
 612 ments. Somewhat surprisingly, participants also overes-
 613 timated daily *negative* behaviors of the self and the
 614 partner (see Table 1). This suggests that participants did
 615 not simply view the past through rosy lenses (Mitchell,
 616 Thompson, Peterson, & Cronk, 1997), or were motivated
 617 to view the past in an egotistical way (Greenwald, 1980).
 618 Rather, this pattern of results signals judgment errors

when forming retrospective judgments on specific behav- 619
 iors or domains over an extended period of time, which 620
 require aggregation of the relevant information across 621
 time. It is interesting to note that participants did not 622
 overestimate their daily well-being. This might be 623
 because daily well-being (e.g., "how satisfied are you 624
 with your life today?") requires integration of various 625
 life domains, whereas daily ratings of behaviors (e.g., 626
 "how kind were you toward your partner today?") and 627
 domains (e.g., "how satisfied are you with the way the 628
 disagreement was resolved today?") requires much less 629
 integration of information. Whereas daily ratings of spe- 630
 cific behaviors and domains are based chiefly on episodic 631
 memory, daily well-being judgments might be based on 632
 semantic memory and identity-belief as much as episodic 633
 memory. 634

Second, we found that retrospective daily well-being 635
 (retrospective, global judgment) had a stronger predic- 636
 tive value for later relationship status than did actual 637
 daily well-being (daily, global judgment). In contrast, 638
 daily relationship domain satisfaction (daily, specific 639
 judgment) was a stronger predictor of later relationship 640
 status than were retrospective judgments (retrospective, 641
 specific judgment presumably based on a situation-spe- 642
 cific belief). It is also interesting that global relationship 643
 satisfaction (global judgment presumably based on a 644
 general belief) predicted later status better than daily 645
 relationship domain satisfaction did (Table 2). Finally, 646
 in terms of daily behaviors, although daily and retro- 647
 spective reports predicted later relationship status, 648
 respectively, together neither of them predicted it. This 649
 suggests that neither daily nor retrospective reports of 650
 specific relationship behaviors have a clear advantage in 651
 their predictive power. Taken together, it seems safe to 652
 conclude that it is not retrospective judgments per se 653
 that are superior to daily judgments in predicting future 654
 relationship status. Rather, it is global, summary judg- 655
 ments that are superior to specific, daily judgments. This 656
 is an important contribution of the present research 657
 because previous research (e.g., Wirtz et al., 2003) did not 658
 distinguish between retrospective judgments and global 659
 judgments. In terms of Robinson and Clore's (2002) 660
 belief model of self-reports, then, the present findings 661
 suggest that general identity-based beliefs predict impor- 662
 tant behavioral outcomes better than situation-specific 663
 beliefs do. 664

Third, as predicted, we found that within-couple 665
 covariation of daily well-being predicted relationship 666
 status 6 months later. Among the stable couples, on a 667
 day a female participant had a good day, her male part- 668
 ner tended to evaluate the day as good, as well; among 669
 the couples who broke up, on a day a female participant 670
 had a good day, her male partner sometimes reported 671
 that the day was not good. Thus, synchronicity of daily 672
 well-being is an important indicator of interdependence 673
 between partners, and a powerful predictor of future 674

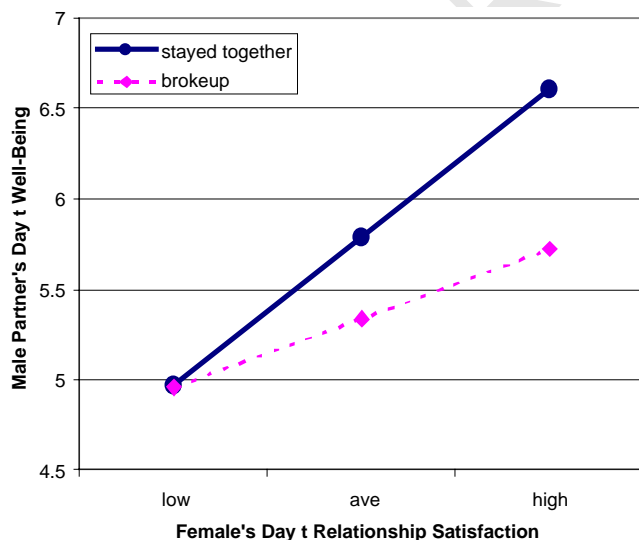


Fig. 2. The degree to which female's daily relationship domain satisfaction predicted their male partner's daily well-being among couples who stayed in the relationship and couples who broke up within 6 months. Note. "Low" in X-axis indicates two points below each individual's own daily average, whereas "high" indicates two points higher than each individual's own daily average.

675 relationship status. It is interesting that synchronicity of
676 daily behaviors and other daily ratings were not related
677 to future relationship status. Thus, it appears that syn-
678 chronicity of specific behavior (e.g., witty, critical) and
679 specific relationship domain satisfaction (e.g., sex) is not
680 necessary for relationship stability. Rather, it is synchro-
681 nicity of daily well-being (or overall evaluation) that is
682 critical for relationship stability.

683 In a related vein, we also found that a female partici-
684 pant's daily relationship domain satisfaction was more
685 strongly associated with her partner's overall daily well-
686 being among couples who stayed together than among
687 couples who broke up within 6 months. These between-
688 couple differences in within-couple covariation indicate
689 that individuals in a stable relationship weighed their
690 partner's relationship domain satisfaction more heavily
691 in evaluating their overall daily well-being than did those
692 in an unstable relationship (or that one partner's well-
693 being affected the other partner's relationship domain
694 satisfaction). This is consistent with the value-as-a-mod-
695 erator model of well-being (Oishi, Diener, Suh, & Lucas,
696 1999), which assumes that well-being judgments are
697 based on satisfaction in personally important domains.
698 Extending previous research on this model (e.g., Oishi,
699 Schimmack, & Colcombe, 2003), the present research
700 showed that the basis of well-being judgments can predict
701 an important future behavior such as relationship status.

702 Although the present findings are informative, they
703 should be interpreted with the following limitations in
704 mind. First, the data presented here were limited to young,
705 heterosexual couples in an early stage of a romantic rela-
706 tionship. This might explain one unexpected finding: the
707 negative behaviors of the self and the partner did not pre-
708 dict future relationship status. In contrast to our findings,
709 Gottman and Levenson (1992) found that the frequency
710 of negative behaviors (e.g., criticism) as well as positive
711 behaviors during the interaction predicted marital status 4
712 years later.⁶ It is plausible that at an early stage of a
713 romantic relationship, feelings of love and passion are
714 dominant forces, and therefore, positive aspects of the
715 relationship outweigh negative aspects. It is important in
716 the future to test whether the types of behaviors that pre-
717 dict future relationship status shift from positive to nega-
718 tive over the course of a relationship. Second, we did not
719 find any end effect often found in the previous research
720 (Kahneman et al., 1993). This might be largely because
721 daily well-being and relationship satisfaction do not con-
722 sist of a single affective episode. Recall that in Kahneman

et al.'s (1993) experiment, the target experience was a sin- 723
single affective episode which had a clear beginning and end. 724
Day 14 report was the arbitrary end of the daily survey. 725
The end effect should be much stronger when there is a 726
clear ending in the affective experience under study. Thus, 727
our results do not negate the importance of peak and end 728
experience in general. Finally, our participants were 729
mostly European Americans. Previous research found cul- 730
tural differences in online vs. retrospective judgments of 731
well-being (e.g., Oishi, 2002; Oishi & Diener, 2003). Thus, 732
the generalizability of the present findings needs to be 733
tested in the future. 734

735 In conclusion, the present findings demonstrate the 735
power of global, summary judgments over daily, specific 736
ratings in predicting an important life outcome in an 737
ongoing, relationship context. This suggests that other 738
important life outcomes, such as group and organiza- 739
tional membership (e.g., job turn-over), might be better 740
predicted by global satisfaction judgments rather than by 741
daily or online hedonic measures. Despite recent critiques 742
of global self-reports of well-being (Kahneman, 1999; 743
Schwarz & Strack, 1999), the present research illustrates 744
that global self-reports have an important utility in pre- 745
dicting future behaviors of great significance, at least on 746
par with daily or specific reports. Equally important, the 747
present study indicates that synchronicity of daily well- 748
being within couples is a reliable predictor of relationship 749
stability and an index of interdependence. As demon- 750
strated here, the investigation of judgment processes in an 751
ongoing relationship enriches the knowledge about social 752
judgments, well-being, and close relationships. 753

Uncited reference 754

Reis and Gable (2000). 755

Acknowledgments 756

757 This research was in part supported by the Grant-in- 757
Aid award given to the first author by the College of 758
Liberal Arts, the University of Minnesota. We thank Uli 759
Schimmack and anonymous reviewers for help with our 760
data analyses. We also thank Colleen Sinclair for her 761
help with data collection and thank Ellen Berscheid, Tim 762
Wilson, Jamie Kurtz, Jesse Graham, Gary Sherman, 763
Janneta Lun, Kate Ranganath for their invaluable com- 764
ments on an earlier draft of the manuscript. 765

References 766

- 767 Anderson, C., Keltner, D., & John, O. P. (2003). Emotional conver- 767
gence between people over time. *Journal of Personality and Social 768*
Psychology, 84, 1054–1068. 769

⁶ When we conducted the analyses using the ratio of positive vs. nega-
tive behavior of the self and the partner, as opposed to analyzing
them separately, these new variables did not predict later relationship
status. This is largely because positive behaviors predicted later status,
but negative behaviors did not. In other words, we did not find the
effects found by Gottman and Levenson (1992), even when we ana-
lyzed the data using the positive vs. negative ratio.

- 770 Barnett, R. C., Marshall, N. L., Raudenbush, S. W., & Brennan, R. T.
771 (1993). Gender and the relationship between job experiences and
772 psychological distress: A study of dual-earner couples. *Journal of*
773 *Personality and Social Psychology*, 64, 794–806.
- 774 Berscheid, E., & Reis, H. T. (1998). Attraction and close relationships.
775 In D. T. Gilbert, S. T. Fiske, & G. Lindzey (Eds.), *The handbook of*
776 *social psychology* (Vol. 2, fourth ed, pp. 193–281). Boston, MA:
777 McGraw-Hill.
- 778 Berscheid, E., Snyder, M., & Omoto, A. M. (1989). The relationship
779 closeness inventory: Assessing the closeness of interpersonal rela-
780 tionships. *Journal of Personality and Social Psychology*, 57, 792–
781 807.
- 782 Christensen, T. C., Wood, J. V., & Feldman Barrett, L. (2003). Remem-
783 bering everyday events through the prism of self-esteem. *Personality*
784 *and Social Psychology Bulletin*, 29, 51–62.
- 785 Feldman Barrett, L. (1997). The relationships among momentary emo-
786 tion experiences, personality descriptions, and retrospective ratings
787 of emotion. *Personality and Social Psychology Bulletin*, 23, 1100–
788 1110.
- 789 Fredrickson, B. L., & Kahneman, D. (1993). Duration neglect in retro-
790 spective evaluations of affective episodes. *Journal of Personality and*
791 *Social Psychology*, 65, 45–55.
- 792 Frey, N. E., & Karney, B. R. (2004). Revision in memories of relation-
793 ship development: Do biases persist over time. *Personal Relation-*
794 *ships*, 11, 79–97.
- 795 Funder, D. C., & Colvin, C. R. (1991). Explorations in behavioral con-
796 sistency: Properties of persons, situations, and behaviors. *Journal of*
797 *Personality and Social Psychology*, 60, 773–794.
- 798 Gonzalez, R., & Griffin, D. (2002). Modeling the personality of dyads
799 and groups. *Journal of Personality*, 70, 901–924.
- 800 Gottman, J. M., & Levenson, R. W. (1992). Marital processes predic-
801 tive of later dissolution: Behavior, physiology, and health. *Journal*
802 *of Personality and Social Psychology*, 63, 221–233.
- 803 Greenwald, A. G. (1980). The totalitarian ego: Fabrication and revis-
804 ion of personal history. *American Psychologist*, 35, 603–618.
- 805 Kahneman, D. (1999). Objective happiness. In D. Kahneman, E. Diener,
806 & N. Schwarz (Eds.), *Well-Being: The foundations of hedonic*
807 *psychology* (pp. 3–25). New York: Russell Sage Foundation.
- 808 Kahneman, D. (2000). New challenges to the rationality assumption. In
809 D. Kahneman & A. Tversky (Eds.), *Choices, values, and frames* (pp.
810 758–774). New York: Russell Sage Foundation.
- 811 Kahneman, D., Fredrickson, B. L., Schreiber, C. A., & Redelmeier, D.
812 A. (1993). When more pain is preferred to less: Adding a better end.
813 *Psychological Science*, 4, 401–405.
- 814 Kahneman, D., Krueger, A. B., Schkade, D. A., Schwarz, N., & Stone,
815 A. A. (2004). A survey method for characterizing daily life experi-
816 ence: The day reconstruction method. *Science*, 306, 1776–1780.
- 817 Karney, B. R., & Frye, N. E. (2002). “But we’ve been getting better
818 lately”: Comparing prospective and retrospective views of relation-
819 ship development. *Journal of Personality and Social Psychology*, 82,
820 222–238.
- 821 Kelley, H. H., Berscheid, E., Christensen, A., Harvey, J. H., Huston, T.
822 L., Levinger, G., et al. (1983). *Close relationships*. San Francisco:
823 Freeman.
- 824 McFarland, C., & Ross, M. (1987). The relation between current
825 impressions and memories of self and dating partners. *Personality*
826 *and Social Psychology Bulletin*, 13, 228–238.
- 827 Mitchell, T. R., Thompson, L., Peterson, R., & Cronk, R. (1997). Tem-
828 poral adjustments in the evaluation of events: The “Rosy view”.
829 *Journal of Experimental Social Psychology*, 33, 421–448.
- 830 Murray, S. L., Holmes, J. G., & Griffin, D. W. (1996). The benefits of
831 positive illusions: Idealization and the construction of satisfaction
in close relationships. *Journal of Personality and Social Psychology*, 832
70, 79–98. 833
- Murray, S. L., Holmes, J. G., Dolderman, D., & Griffin, D. W. (2000). 834
What the motivated mind sees: Comparing friends’ perspectives to
835 married partners’ views of each other. *Journal of Experimental*
836 *Social Psychology*, 36, 600–620. 837
- Murray, S. L., Holmes, J. G., & Griffin, D. W. (2003). Reflections on the
838 self-fulfilling effects of positive illusions. *Psychological Inquiry*, 14,
839 289–295. 840
- Oishi, S. (2002). Experiencing and remembering of well-being: a cross-
841 cultural analysis. *Personality and Social Psychology Bulletin*, 28,
842 1398–1406. 843
- Oishi, S., & Diener, E. (2003). Culture and well-being: The cycle of
844 action, evaluation and decision. *Personality and Social Psychology*
845 *Bulletin*, 29, 939–949. 846
- Oishi, S., Diener, E., Suh, E., & Lucas, R. E. (1999). Value as a modera-
847 tor in subjective well-being. *Journal of Personality*, 67, 157–184. 848
- Oishi, S., Schimmack, U., & Colcombe, S. (2003). The Contextual and
849 systematic nature of life satisfaction judgments. *Journal of Experi-*
850 *mental Social Psychology*, 39, 232–247. 851
- Raudenbush, S., Bryk, A., Cheong, Y. F., & Congdon, R. (2001). 852
HLM5: hierarchical linear and nonlinear modeling. Chicago, IL: Sci-
853 entific Software International. 854
- Redelmeier, D. A., & Kahneman, D. (1996). Patients’ memories of
855 painful medical treatments: Real-time and retrospective evalua-
856 tions of two minimally invasive procedures. *Pain*, 66, 3–8. 857
- Reis, H. T., & Gable, S. L. (2000). Event-sampling and other meth-
858 ods for studying everyday experience. In H. T. Reis & C. M.
859 Judd (Eds.), *Handbook of research methods in social and person-*
860 *ality psychology* (pp. 190–222). New York: Cambridge Univer-
861 sity Press. 862
- Robinson, M. D., & Clore, G. L. (2002). Belief and feeling: Evidence for
863 an accessibility model of emotional self-report. *Psychological Bulle-*
864 *tin*, 128, 934–960. 865
- Robinson, M. D., Johnson, J. T., & Shields, S. A. (1998). The gender
866 heuristic and the database: Factors affecting the perception of gen-
867 der-related differences in the experience and display of emotions.
868 *Basic and Applied Social Psychology*, 20, 206–219. 869
- Schimmack, U., & Hartmann, K. (1997). Interindividual differences in
870 the memory representation of emotions: Exploring the cognitive
871 processes in repression. *Journal of Personality and Social Psychol-*
872 *ogy*, 73, 1064–1079. 873
- Schwarz, N., & Strack, F. (1999). Reports of subjective well-being:
874 Judgmental processes and their methodological implications. In D.
875 Kahneman, E. Diener, & N. Schwarz (Eds.), *Well-Being: The found-*
876 *ations of hedonic psychology* (pp. 61–84). New York: Russell Sage. 877
- Simpson, J. A. (1987). The dissolution of romantic relationships: Factors
878 involved in relationship stability and emotional distress. *Jour-*
879 *nal of Personality and Social Psychology*, 53, 683–692. 880
- Sprecher, S. (1999). “I love you more today than yesterday”: Romantic
881 partners’ perceptions of changes in love and related affect over
882 time. *Journal of Personality and Social Psychology*, 76, 46–53. 883
- Stone, A. A., Shiffman, S. S., & DeVries, M. W. (1999). In D. Kahn-
884 eman, E. Diener, & N. Schwarz (Eds.), *Well-Being: The founda-*
885 *tions of hedonic psychology*. New York: Russell Sage
886 Foundation. 887
- Twenge, J. M., & Campbell, W. K. (2001). Age and birth cohort differ-
888 ences in self-esteem: A cross-temporal meta-analysis. *Personality*
889 *and Social Psychology Bulletin*, 5, 321–344. 890
- Wirtz, D., Kruger, J., Scollon, C. N., & Diener, E. (2003). What to do on
891 spring break. The role of predicted, online, and remembered experi-
892 ence in future choice. *Psychological Science*, 14, 520–524. 893