Measurement of Love, Quality and Quantity: A thousand kisses deep

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Abstract

A clinical measurement of love is condensed from extant love models and metrics to a practical methodology combining the contributions of cognitive and personality factors, as well as attachment style. In line with the conservative imperative that behoves psychological opinion to be evidence based, the Bowlby-style attachment basis of romance is operationalized through extension of the six colours of love, the interaction of cognitive functionality with love style is acknowledged, and a personality analysis of both parties to the self-proclaimed love affair are combined to provide the external observer with a tangible profile of any romance. As well as contributing to clinical involvement in des Affairs de Coeur, the formal evaluation of love profile provides substance for the Expert Clinical Opinion requirement generated by current immigration-based matters. Representing a clinical application for historically developed tools of love audit, the resulting evaluation is

i. Credible (meaning that it is generally comprehensible to other than psycho-amoretic-metricians and has a viable level of face validity) and


Keywords: Love; Measurement of Love; Romance; Romantic attachment; Adult Attachment; Immigration; Forensic Psychology; Personality.

Introduction to love

For the psycho-metrician it is the tacit assumption that if we can talk about a condition, and certainly if we can admit to there being more or less of the target quality (even if the descriptive terminology be florid and appear at first glance defy numerical categorization), it is inevitable that the use of relative or ranking descriptors generates the expectation that stochastic quantification is only a or two step away. The present paper seeks to advance beyond the poetic volumetric estimation of love in imprecise units such as “a thousand kisses deep” [1], to consider the formal love studies of the last half a century or so, and to derive a clinically useful measurement process. To provide clear focus, the current paper specifically seeks to serve a developing clinical/forensic issue – the validation of a self-proclaimed union as “true love” or otherwise.

Forensic Love

Although there always has been a recognition of “love” among the rule-making and behaviour-managing jurisdictions (including both ecclesiastical and lay) the primary involvement of the law has been to proscribe particular categories of emotional attraction and bonding, with the target forbidden activities most commonly being sexual or pre-sexual encounters. What is permitted in public or in private, and with whom (or with what) these behaviours may legitimately be carried out, has been the core of romance-focused legislation. Heretofore the legal system has not been interested in how strongly a person felt attracted to another, and the law has not been asked to make potentially precedent-creating decisions on the positive aspects of love, nor to seek evidence-based opinions on such issues: is love present here at all; and if so how strong; or how “real” or genuine is this love? Indeed, until recently such ponderings have not been the fodder of case law.

With the world-wide trend towards tightening of immigration policy in countries which are perceived as economically or socially desirable, there has been a parallel rise in efforts to thwart border protection measures. Apart from clandestine incursions at remote or unsupervised segments bounded by the perimeter of sovereignty, an attractive gap in the policy wall facing the would-be immigrant is the superficially reasonable proposition that love and then marriage confers upon one partner the national allegiance and citizenship of the other. Unsurprisingly the efforts to assert this “superficially reasonable” implication has generated instances of spurious and falsely proclaimed romances as a virtual people smuggling strategy. These invented love affairs are un-
derstood to be outside the umbrella of romantic attachment, and it follows logically that to complement effective physical border protection and the implementation of immigration policy there will arise the need for appropriate tools to weigh these proposed relationships in the balance, and to embrace those unions which reflect genuine love, or, where the quantity of love falls short, to be cast out into the visa-devoid darkness where there may be wailing and the gnashing of teeth.

The charter to scrutinize couples in search for convincing evidence of “true love” has generated the need for Expert Opinion from professionals whose specialist knowledge base covers an understanding of emotional states – and that would include the Clinical Psychologist. Recognising the need for advice on the romantic underpinning of professed relationships, it is important to remember that the legal validity of such Expert pronouncements has been the subject of musings by the Law Lords: clinical psychological opinions are not derived from “thought experiment” but, au contraire, must be based upon “certain well known tests”. Thus a chain of events which began with a flood of uncontrolled migration and ends with marriages of convenience poses for the clinical psychologist the need to acquire tools selected from the canon of “certain well known tests” in order to achieve the potential for admissible (and more importantly valid) opinion about love.

Whether or not judicial precendent weight is conferred to the Privy Council, it surely provides an informative if not binding view and it also matches up with common sense to rely upon a psychological opinion which rests upon the conservative base of “certain well known tests”, rather than an interpretation derived from a process which is bereft of the tangible evidence.

Psychometric Love

There is ample evidence in romantic literature bases to indicate that something special can happen between two adults. “For centuries, romantic love has been explored by writers and philosophers who have revealed multiple emotions and feelings” ([2] pp. 675) and by midway through the last century, social scientists began work on the task of “defining love conceptually and operationally” (ibid, p. 676). The separation of some nominated domain of human functioning into (more or less) independent components has been an evolving theme within social science research, and the half a dozen “colours of love” distinguished by Lee [3] were subsequently transformed [4] to a hexagonal factor-analytic solution defining separable love dimensions which combine to describe different profiles of romantic union. These love profiles allowed for the presence, or absence, of components other than the Hollywood model: descriptions equating to a shopping list approach, or to a compelling form of neurotic subservience could be classified as valid exemplars of romantic union. Despite their denunciation as blaspheming against the mythological experience of “true love”, these two contributors (that is, Lee and the Hendrick dyad with their six factors) to love measurement can be recognised in hindsight as having landmark status in the science of love-metrics [5]. Their acknowledgement is all but mandatory in any contemporary study of love: the Hendrick & Hendrick oeuvre had achieved near 1000 cites by 2016. However, not unlike the ongoing discovery of new, even smaller sub-atomic particles, to acknowledge the 6-factor model goes hand in hand with the uncovering of multiple new (finer) love fragments. A recent study of love distinguished a heart-stopping 33 aspects (potentially factors?) of love [2], with the primary importance of that investigation being not so much the number of love shards, but more the expectation of reducing the fragments of evidence by some sort of grouping process: “Deeper exploration of the clustering of these dimensions will help our better understanding of implicit models of love” (ibid, p 697).

Mental Complexity (MC)

Even more useful was the Karandashev & Clapp [2] announcement that the individual’s “Mental Complexity” (MC) may determine the trajectory of their of romantic experience. From analysis of love narrative, the expectation of a coherent and rational profile among those of high MC is contrasted with proposition of a love experience which is, at first glance, “irrational” for lovers of lesser cognitive capacity:

i. [compared to] people with high and medium mental complexity, . . . people with low mental complexity . . . distinguish [love] dimensions differently.....

ii. People with high mental complexity... tend to perceive the love dimensions more logically, consistently, and sensibly than people with lower mental complexity. (p 680)

iii. For medium and higher mental complexities, the dimensions [of love] appear closer and more coherent.

iv. Those with lower mental complexity displayed the opposite: many small clusters, isolated dimensions, and illogical patterns in clusters...

v. In low mental complexities, dimensions are rather... inconsistent ... the dimensions of Irrationality, Possession, and Obsession emerged

vi. And speaking directly to dimensions that are distinguished by attachment models of love. Low mental complexity is... related to the dimensions of attachment anxiety, possession, and elation” ([2] pp. 694).

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1The admissibility of evidence by clinical psychologists has been considered.... In Lowery v The Queen [1974] AC 85 the evidence of a clinical psychologist as to the personality and character of the accused was admitted.... the clinical psychologist applied what the Privy Council described as “certain well known tests” and further... “scientific evidence as to the respective personalities ... as revealed by certain well-known tests” and held that the evidence was admissible.... Judge Keall. 1986.

2there is but one type of romantic love that is composed of eros (immediate and powerful attraction to the physical appearance and personality of the beloved)” .... [Mathes [5] pp. 371, emphasis added]
Anticipating, in the forensic setting, the assessment of a pro-
fessed relationship style which deviates from the narrow experi-
ence which forms the idealised romantic attachment of Mathes
[5], it is now evident that information about this quality of MC is
necessary before the dichotomous Expert Opinion (credible/gen-
une love, or not) can be delivered. Although the Karandashev &
Clapp[2] notion of MC drew upon content analysis of narrative, for
the Clinical Psychologist, the core MC assessment tool is the adult
IQ (for example the Wechsler WAIS-IV). However, it is (almost by
definition) the case that for immigration/visa relevant love, the
most informative index of MC may not equate to the somewhat
academically slanted evaluation of intellect which is represented
by the unadorned IQ composite score. In fact, for immigration cas-
es, many of the sub-tests on the standard Wechsler suite would be
partially or fully opaque due to language, educational experience,
anid cultural factors. Leaving the choice of source data as broad,
and at the same time as appropriate as possible, the present mod-
el seeks to stand distant from core IQ and thus expresses the out-
come of MC as a T-score.1

For the purpose of love, it is the present model that romance-relevant MC should at least begin by considering Scaled Scores from the adult IQ (WAIS) battery. More than providing a measure of overall “mental strength”, the WAIS suite of sub-tests has over the years and been interpreted as giving an indication of cognitive functionality in social situations, and the putative so-
cial-cognitive quality is arguably in line with the present [2] no-
the almost century-long contention, dating back at least as far as
Thorndike’s search for factors that would reflect the human ca-
pacity to “understand, interact with, and manage others” (ibid, pp. 263). That a comprehensive cognitive measurement will include a component which relates to “social cognitive abilities [which] are an integral feature of global [intellectual] capacity” (ibid, p. 272). By the end of the last century, credible and consistent factor analy-
sis had distinguished a Social Cognition construct which was com-
pared of (at least) the Wechsler subtests of Test of Cognitive
Arrangement (PA) and Picture Completion (PC). Although at first glance providing a measure of something akin to knowledge about society and perhaps social-cognitive strength, the verbally delivered Compre-
hension subtest has consistently shown relatively weak loading
on this putative Social Cognition (SC) factor. Although the Allen
& Barchard [6] analysis supported the inclusion of an additional perfor-
mance task, Object Assembly (OA) as a contributor to the estima-
tion of social functionality, a roughly parallel previous inves-
tigation [7] found support for only PA and PC as estimates of the underly-
ing SC trait.

In summary, where the target of a cognitive function has a clear component of social understanding, albeit headed with a generalist-seeming label (“mental complexity”), then the two sub-
tests PC + PA are arguably the first choice - and this choice is all
the more appropriate when language difficulties are present. The
knowledge that occasionally aberrantly high scores can occur on
any single sub-test would encourage the selection of at least three
measures to provide a more reliable estimate of MC.

The selection of a third sub-test could come from the follow-
ing:

i. Other WAIS score, with preference (where language is not a barrier) for Comprehension, and less enthusiasm for the technical tasks of Matrix Reasoning or Block Design where these
may differ from the putative socially relevant MC quality being assessed. Where multiple IQ sub-tests have been completed (for example the full set of 10 or 12) it is suggested that a potential MC score be computed on the lowest three sub-tests, and another can-
didate on the highest three. This approach gives the clinician the
responsibility of exercising clinical judgement as to which of the
potentially disparate MC scores will have relevance to the comput-
ed attachment scores2.

ii. From sub-tests of the Delis Kaplan Executive Function
suite, any test demonstrating planning capacity (Tower Test,
which is language free), tendency to become confused in com-
plex situations (Color Test, which may be available in appropriate
translations), or 20 questions (to illustrate the client’s capacity to
infer what the other person is in mind)3.

iii. A social functionality score based upon sub-domains of
the Vineland Adaptive Behaviour Scales.

The report should emphasize that in the context of a romantic
union the computed Mental Complexity score is not necessarily
typical to full scale IQ score.

Personality

Equally valuable as MC in the sense of having the demonstrat-
ed potential to explain variance in love measures was the contri-
bution of Sperling [8] confirming the tautological proposition that
personality type interacted with the experience of love: “... people
are differentiated in their experience of... love based upon .
.. characteristic qualities of self .... ”([8] pp. 324). It appears easy
to recognise as self-evident the value of a Sperling-derived use of
personality as a lens through which to view the love experience,
however this assessment strategy did not become the standard.
Although the need to take “characteristic qualities of self” into
account continues to be tacitly recognised (for example: “dispo-

1 T-score is chosen firstly to distinguish it from conventional IQ measurement scores, and secondly to link in with the other “love” measures under consideration
2 For example a client returned scaled scores of 11 on each of WAIS-IV sub-test of Matrix Reasoning and Block Design, but much lower on the pro-social
Picture Arrangement (from WAIS-R, SS = 6) Picture Completion (WAIS-IV, SS = 3), and Comprehension (WAIS-IV, SS = 6), leading to an MC T-score of 30
(average of poorest 3 sub-tests). This would indicate “low MC” in the interpretation of attachment scores.
3 Three attachment styles: although additional styles of attachment have been proposed, the core (original) three Bowlby attachment types retain
currency.
sitional tendencies to experience... love and compassion—emotions that have well-documented and robust influences on prosocial responding” ([9] pp. 887]), over the three or more decades since Sperling the measurement of love has in the main left out of consideration the interpersonal functional variables of personality or the contribution of MC.

Although not unique in the provision of personality measurement, the long-standing 16PF is the selection favoured by the present model, since this tool provides bi-polar scores for several relevant interpersonal qualities. For coherence with all scores reported in the ensuing forensic summary, the 16PF scales are reported as T-scores, as will be seen in the case study appended.

Attachment Models of Adult Love Speaking to early human emotional interactions, Bowlby (for example see Bretherton [10]) refined to an enduring model the classification of emotional infant bonding with their caretakers. Attachment theory describes fantas bonding with their caretakers. Attachment theory describes refined to an enduring model the classification of emotional in...

Table 1: 6 + 4 Love Dimensions and Attachment Style.

<table>
<thead>
<tr>
<th>Love Dimension</th>
<th>Secure</th>
<th>Avoid</th>
<th>Anx/amb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical attraction: Eros</td>
<td>Low</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Game playing: Ludos</td>
<td></td>
<td>High</td>
<td></td>
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<tr>
<td>Friendship: Storge</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Logical: Pragma</td>
<td>Low</td>
<td>High</td>
<td></td>
</tr>
<tr>
<td>Possessive: Mania</td>
<td></td>
<td></td>
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<tr>
<td>Giving: Agape</td>
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<tr>
<td>Caring: Philotes</td>
<td></td>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>Social support: Melete</td>
<td></td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>Anxious dependence: Nosotistis</td>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jealousy: Phthonos</td>
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</tbody>
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Common high point codes (Where * = "almost any other" And – sign = "low")

Summary of Love

Love measurement research has been conducted under the questionable (and indeed occasionally questioned) assumption that a meaningful answer to the question “what sort of love do you experience” can be discovered in the absence of any evidence about “what sort of person are you”. Furthermore, the question as to "why" (in the sense "to serve what purpose") are we measuring romantic love has never been a guiding focus. Although attachment theory, personality and mental complexity have been credibly raised as important factors defining the love experience, at least one impediment to arriving at a consensus on the general methodology nor on the “best” instruments to evaluate romance has been the absence of a unifying, focussing reason for the evaluating the love experience. Indeed, the difficulties of deciding how to conceive of love precede the impediments to the confident measuring of this experience, and this fundamental definitional complexity is illustrated by the opacity of the following: The idea of love as a salutogenic agent is just one possible approach to the epidemiology of love. By no means does it exclude consideration of love as a psychosocial host factor... love may be considered both as an agent and a host... [15]. Acknowledging the conceptual quagmire of amoretic assessment, a recent meta-analyses of love measures [16] concluded that something more than an array of love questions is necessary to make sense of the data, asserting “the need for measurement methods other than global self-report [that is, self-report on the love experience itself]” (Graham, 2011). And almost as a self-defeating prophesy, the prospect of finding a useful measure does indeed appear daunting when the target is something as grand as that envisaged by Graham [13] (pp. 765): "Romantic relationships are what many consider an important part of what it means to be human. In many Western cultures, love is seen as an essential component (if not the most essential component) of a successful romantic relationship. Therefore, a well-developed understanding of love is highly important to understanding how and why relationships last and fail."
The attempted measurement in the vacuum of specific need is to produce a “solution looking for a problem”, as the laser was once described [17]. Thus, the decades of investigation, although lacking focussed coherence have provided the laser-like solution which can be applied to the singular issue of forensic love. Contrasting with the search for global factors affecting the long-term durability of a romantic coupling, the present strategy (Table 2), employs certain well-known tests to satisfy a quite specific need: the legal requirement of providing an Expert Opinion which speaks to the credibility of a professed romantic relationship.

Anticipating further developments in the forensic quantification of love, and inspiring optimism in the prospect of success in the search for the ideal forensic metric for lees Affairs de Coeur, consider the words of a modern-day guru:

If you haven’t found it yet, keep looking. Don’t settle. As with all matters of the heart, you’ll know when you find it.

(Steve Jobs, 2005 Stanford Commencement Speech)

References


Table 2: Three Measurements for Forensic model of Love.

<table>
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<tr>
<th>Attachment style</th>
<th>The 75-item love questionnaire meets the forensic standard of conservative validity and yields ten bipolar factors of love which in turn link to attachment style (see Table 1).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personality characteristics</td>
<td>Additional to the attachment classification, the dominant love factors (high point pair) are further endorsed as “credible” or otherwise by comparison of attachment style with personality characteristics, both positive and negative, derived from administration of the 16PF.</td>
</tr>
<tr>
<td>Mental Complexity</td>
<td>The analysis of love uses an appropriate selection of sub-test scores on socially relevant cognitive scales to enable an informed interpretation of the attachment style returned by analysis of the core love inventory. The first choice of MC measure is culturally and language appropriate components from the current WAIS intelligence suite, however a wider array may be considered, as appropriate for the individual case.</td>
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