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http://dx.doi.org/10.1080/17482798.2016.1194373

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<th>Title</th>
<th>Towards a Theoretical Framework for Understanding the Development of Media Related Needs</th>
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<td>Published Date</td>
<td>2016</td>
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Towards a Theoretical Framework for Understanding the Development of Media Related Needs

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Towards a Theoretical Framework for Understanding the Development of Media Related Needs

The question of why people select and prefer particular media activities has led to the development of a number of ‘needs’ approaches to media use. Whilst some frameworks have been developed within the context of media use (e.g. uses and gratifications), others (e.g. Tamborini et al, 2011) look to combine general theories of basic human needs, such as Self-Determination Theory (Deci & Ryan, 1985) with hedonic gratifications. Drawing on these approaches, a framework is proposed that maps findings from children’s and adolescents’ media use to four basic human needs: competence, autonomy, relatedness and hedonic needs. The current paper argues that a basic needs approach is useful for understanding how media-related needs emerge and are expressed through development.

Keywords: children; adolescents; development; media; needs; self-determination; hedonic

Introduction

What are the needs of younger users of media and technology and how are they tied to development? The current paper argues that applying a developmental ‘needs’ approach affords a cohesive framework to organise research findings from lifespan media use. Such approaches to media use assume an active media user whose engagement in various mediated activities reflects the satisfying of particular needs. It might be argued that needs approaches are irrelevant to very young audiences who lack the autonomy to select their own content. However, infants show preferences for media stimuli within the first few months of life (Valkenburg, 2004) thus can exert influence over the activities that caregivers select to keep them entertained and emotionally content.

The idea that media use is driven by human needs is most commonly associated with the Uses and Gratifications (U & G) framework (Katz, Gurevitch & Haas, 1973; Katz, Blumler & Gurevitch, 1974) which views media users as being aware of their own
needs and able to select media experiences (uses) to satisfy them (gratifications). Whilst early accounts were based on the media of their time (e.g. radio, television, and print), the U&G approach has been flexibly applied to new media (Sundar & Limperos, 2013) and is now one of the dominant theoretical traditions within communications sciences.

Whilst U&G research attempts to identify the range of context-specific needs associated with particular media activities, other approaches classify needs more broadly as hedonic, related to arousal and positive affect, and non-hedonic needs related to the meaningful nature of mediated experiences and how they contribute to our sense of self (Oliver & Raney, 2011; Tamborini, Bowman, Eden, Grizzard & Organ, 2010; Tamborini et al, 2011). Tamborini et al’s (2010) approach incorporated basic intrinsic needs identified in Deci and Ryan’s influential ‘Self-Determination Theory’ (1985) which proposes that behaviour is motivated by a need for autonomy, to feel competent, and to feel close to and trusted by others (relatedness). Tamborini et al (2011) found that autonomy and competence, in addition to hedonic needs (arousal and affect), predicted enjoyment with both interactive and non-interactive media.

Uses and gratifications research has been applied to specific contexts with younger audiences (e.g. television: Greenberg, 1974; gaming: Sherry, 2013). However, it is argued that a broader approach based on intrinsic human needs subsumes the range of narrower context-specific needs and is therefore more useful to provide an overarching framework for organising media-related needs across development. To this end, the current review synthesises research on media use from birth to adolescence using four intrinsic needs: competence, autonomy, relatedness and hedonic needs.

**Competence**

Children are curious from birth (e.g. Harter, 1978) and seek to explore and master their environment (Yarrow & Messer, 1983). This ‘mastery motivation’ can be seen as an
early expression of the need for competence and is evident from infancy, shown through pride at successful completion of tasks (Dichtner-Blancher, Busch-Rossnagel & Knauf-Jensen, 1997). Mastery motivation has also been linked to the television preferences of infants, who are attracted to slow-paced programmes with repetition (e.g. Teletubbies) because the ability to follow storylines and to predict future actions supports a sense of psychological mastery (Valkenburg, 2004). The pride shown by children when completing tasks is strongest when tasks are moderately difficult (Redding, Morgan & Harmon, 1988). Likewise, children prefer a moderate degree of complexity in relation to their current stage of cognitive development (McCall, Kennedy & Applebaum, 1977). Indeed, “many developments in children’s media preferences can be explained by the moderate-discrepancy hypothesis” (Valkenburg, 2004, p. 17). The development of cognitive abilities allows comprehension of formal production features and increasingly complex narratives (Anderson & Hanson, 2010; Kirkorian, Anderson & Keen, 2012; Pittorf, Lehmann & Huckauf, 2014) and by pre-adolescence, younger audiences have comprehension schemata to appreciate content aimed at adults (Valkenburg, 2004). However, competence needs remain a motivating force in enjoyment of media activities through a sense of self-efficacy, which predicts persistence with media activities such as gaming (Pintrich & Schunk, 2002; Sherry et al, 2006).

**Relatedness**

The need for social contact is present from birth, demonstrated through instinctive communicative behaviours like crying, and infants possess a social drive to work with others on games and activities (Butler & Walton, 2013). This increased enjoyment derived from participating in joint activities demonstrates the early emergence of Deci and Ryan’s ‘relatedness’ need (feeling close to and trusted by others). Some media
behaviours are related to these early social drives. Infants’ gaze toward the television is influenced by their parent co-viewer, more often looking at the TV when their parent does (Demers, Hanson, Pempek, Kirkorian & Anderson, 2009). Infants appear to show a preference for baby-directed language on television (Valkenburg, 2004), and children’s attention to the TV is influenced by the characters, looking more at children and adult female characters than adult male characters (Schmitt, Anderson & Collins, 1999). Behaviours indicative of relationships with characters on screen (such as smiling and saying a character’s name) are present in toddlers (Lauricella, Gola & Calvert, 2011) and on-screen characters may come to serve the same purpose as imaginary friends (Gola, Richards, Lauricella & Calvert, 2013). Parasocial relationships become influenced in middle childhood and pre-adolescence by gender-identity and wishful identification (Hoffner, 1996). Such results suggest that relatedness needs are met through both social contact during media activities and the social actors present in media content.

Research suggests that the way parents mediate their child’s viewing changes in middle childhood, with parents offering less explanation around television content in 9-12 year olds than 5-8 year olds (Valkenburg, Krcmar, Peeters & Marseille, 1999). Interestingly, the amount of social co-viewing between parents and children did not change across these ages, suggesting that the social contact provided through joint viewing remains important. Research suggests that co-viewing as a family activity continues to be valued in adolescence (Courtois, Merchant, Paulussen, & Marez, 2011), with some teenagers emphasising the pleasure gained from a cosy evening with the family in front of the television or how ritual family viewing centred around particular programmes (Adriaens, Van Damme, & Courtois, 2011). Coyne, Padilla-Walker, Fraser, Fellows and Day (2014) found that both parents and adolescents reported that
social connection and bonding is one reason that families of adolescents use media. So, whilst teenagers may increasingly need their own space (see ‘Autonomy’ section, below), this does not fully replace the relatedness need for family-based activities which are often structured around media routines.

Adolescence is associated with an increasing importance placed on peers which may affect media choices in several ways. Believing peers value certain content leads to higher ratings of that content by adolescents (Berns, Capra, Moore & Noussair, 2010). Social networking sites allowing the formation and exploration of relationships become an important space for social interactions for adolescents, who associate social networking as a vehicle for maintaining friendships, giving and receiving social support, and forming new relationships (Lenhart, Purcell, Smith & Zickuhr, 2010). Peer-pressure may also relate to the concept of ‘Fear of Missing Out’ (or FoMO), defined as a “pervasive apprehension that others might be having rewarding experiences from which one is absent” (Przybylski, Murayama, DeHaan, Gladwell, 2013, p841). Przybylski et al (2013) found that FoMO decreased with age, and although their youngest respondents were 18, it is reasonable to assume the relationship would be stronger for younger adolescents. The study also showed that those who scored higher on FoMO also engaged more in social media which suggests that FoMO might explain why adolescents are higher users of social media.

**Autonomy**

Autonomy needs appear to emerge soon after birth (Leotti, Iyengar, Ochsner, 2010). This is demonstrated first through affective responses to the removal of environmental control, then through exercising choice over recreational activities (evident in preschool children), and later through the need for privacy and freedom of expression (see Helwig, 2006, for an overview). Children begin expressing media preferences from 2
years (Valkenburg, 2004), and making decisions over media content may therefore provide a domain in which young children can experience a sense of control. Media preferences also relate to a growing sense of personal identity, another key aspect of autonomy. From 5, gender identity becomes more salient. From 7 or 8, children begin to show a preference for characters they can identify with, either the same age or older. By 9, children become increasingly interested in adult content (See Valkenburg, 2004, for a summary).

Striving for autonomy and self-sufficiency are key developmental tasks faced by adolescents and media may begin to take a particularly important role in self-socialisation for teenagers in domains such as sexuality, romantic relationships and careers (Arnett, 1995). Brown and Pardun (2004) suggest teenagers seek content that tells them about the adult world, and also as a type of ‘wishful identification’ by seeking aspirational characters. In line with a growing sense of autonomy, teenagers spend increasing amounts of time in their bedrooms, positively related to how media-rich their bedrooms are (Bovill & Livingstone, 2011). Bedrooms are places for self-expression and allow teenagers autonomy through privacy and secrecy over their activities (Livingstone, 2007; Courtois et al, 2011).

Autonomy involves the development of a personal and social identity which may underpin media choices in myriad ways. Identity may, for instance, determine content preferences. Research suggests that we may seek media that show positive portrayals of our in-group (i.e. positive age-identity portrayals of adolescents) because this increases self-esteem (Mares and Sun, 2010). The internet may support the exploration of identity by allowing adolescents to “slide in and out of various possible selves” (Borca, Bina, Keller, Gilbert, & Begotti, 2015, p. 50). Social media platforms in particular offer different avenues for identity exploration and self-expression. One
reason these platforms have rapidly changed the media landscape as well as the social
landscape in young people is that they offer a social space to project and manage an
identity.

**Hedonic Needs**

Hedonic needs are met through pleasurable emotional experiences, optimal levels of
arousal, and the avoidance of negative affect. Evidence suggests media use may be
influenced by mood in very young audiences. For example, pre-school boys who had
been interacted with in a hostile way watched nurturing content for longer than a less
nurturing program (Masters, Ford & Arend, 1983). This demonstrates an early example
of using media for ‘mood management’ (Zillman, 1988) which predicts that media is
used to regulate arousal through relieving boredom or over-stimulation. Likewise, an
eyear study of television uses and gratifications in children (Rubin, 1977) found that
passing time, arousal and relaxation were the most important motivations in 9, 13 and
17 year olds. Sensation seeking is associated with video game play in 9 – 13 year olds,
evidencing the use of media activities to relieve boredom (Jensen, Weaver, Ivic &
Imboden, 2011). The drive for arousing experiences peaks in adolescence which may
explain why younger adults compared to older adults are more hedonistic in their media
choices, seeking arousing content such as horror movies (Johnston, 1995). Further
evidence for mood management finds that television is a way for adolescents to release
tension that results from conflict within the family home (Roe & Minnebo, 2007).

**Conclusion**

This review argues that the choices and preferences of younger media users can be
usefully considered as reflections of the way that basic human needs are expressed
through development. The synthesis of competence, relatedness, autonomy and hedonic
needs is successful in explaining many developmental aspects of media use. The approach may provide a new way of evaluating the success of particular mediated experiences at different developmental stages. The success of social networks with adolescents, for instance, makes sense if considered in relation to how identity exploration and peer connection are expressions of autonomy and relatedness needs, respectively. Touch-screen technologies may be successful with infants because they support a sense of autonomy through immediate sensori-motor contingencies. Such an approach may be useful in a rapidly changing media universe because whilst technological affordances change our uses and gratifications, the basic human needs that drive them will remain constant.

Acknowledgements: The author received financial support from the British Broadcasting Corporation during the writing of this commentary.

References:


