

Chapter 20

The Neuroscience of Social Television

Shaun A Seixas

Neuro-Insight, Australia

Geoffrey E Nield

Neuro-Insight, Australia

Peter Pynta

Neuro-Insight, Australia

Richard B Silberstein

Neuro-Insight, Australia

ABSTRACT

In a short few years, social media has become the dominant way in which we communicate with the outside world. It has become prevalent in almost every aspect of our daily lives, but one of the most significant changes social media has had, has been on the way we watch television. This phenomenon, known as dual screening, has caused some concern amongst marketers and advertisers, who believed that this behaviour was having an overall negative impact on consumer engagement with television. This chapter attempts to address some of these concerns by providing evidence obtained from the neurosciences and from a case study. The evidence we present in this chapter demonstrates the opposite effect, whereby social media can actually be used to enhance viewer engagement.

INTRODUCTION

The availability and widespread use of Internet connected devices has seen a fundamental shift in the way we consume media today. In particular, many of our interactions on the web are now driven around social media, which itself has become a revolution in the way we create and share content. As a result of both of these changes, there has also been a shift in way media is consumed as traditional media streams have fragmented. For marketers and advertisers this has not only meant an increase in the overall number of available consumer touch points but importantly a new avenue for direct interaction with the consumer.

DOI: 10.4018/978-1-5225-5478-3.ch020

One of the most interesting phenomena arising from the social media revolution is dual-screening, where television viewing which was traditionally a sole viewing experience, is now shared with a second Internet-enabled screen. This observation has been backed by a number of quantitative investigations that report widespread dual screening in the household (Deloitte, 2012; Google, 2012; Thinkbox, 2012). Of particular interest is live tweeting behaviour, which not only provides a means for the viewer to express their thoughts and emotions in real-time, but also allows marketers and advertisers access to a new source of consumer driven insight. Twitter now provides a list of best practices so TV show producers know how best to interact and ‘engage’ viewers and even more recently has joined Nielsen in providing a new TV ratings metric (Nielsen, 2013a; Twitter, 2014).

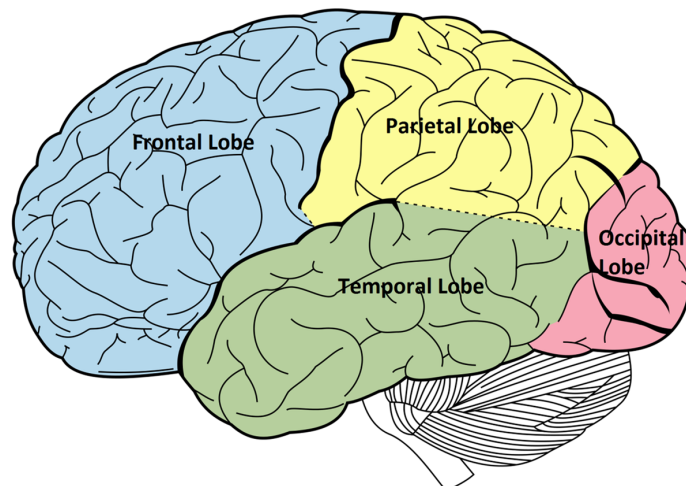
When you consider that the vast majority of televised content is now shared with a second screen, it can be somewhat difficult to determine what impact if any, dual screening has on the audience engagement. In particular, if we consider that ‘engagement’ is a finite resource then it is logical to conceive that dividing this resource amongst two different activities may ultimately result in a reduction in the amount of engagement that is directed to TV viewing. While this may be true simplistically, current research from the neurosciences alludes to a more complicated relationship.

A BRIEF INTRODUCTION TO THE HUMAN BRAIN

The human brain is a vastly complicated organ that serves many functions that range from the automatic control of our hearts, to the voluntary control of our feet as we walk. The brain itself is divided into two halves, called hemispheres, which are connected by a thick bundle of nerves fibres known as the corpus callosum. Each hemisphere is divided into separate anatomical and functions regions known as the lobes. The most common of these are the frontal, temporal, parietal and occipital lobes (see Figure 1).

The frontal lobe is the largest of all the lobes and is located at the front of each hemisphere. The frontal lobes subserves many functions ranging from memory encoding (Brewer, Zhao, Desmond, Glover, &

Figure 1. Lateral view of the cerebral lobes of the human brain. Adapted from Gray's Anatomy (Gray, 1918)



12 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:
www.igi-global.com/chapter/the-neuroscience-of-social-television/199648

Related Content

Targeted Drug Delivery in Cancer Treatment

Farhad Bano, Khalid Umar Fakhri and M. Moshahid Alam Rizvi (2021). *Handbook of Research on Advancements in Cancer Therapeutics* (pp. 356-381).

www.irma-international.org/chapter/targeted-drug-delivery-in-cancer-treatment/267049

Analysis of Valuable Techniques and Algorithms Used in Automated Skin Lesion Recognition Systems

Uzma Jamil and Shehzad Khalid (2017). *Oncology: Breakthroughs in Research and Practice* (pp. 542-558).

www.irma-international.org/chapter/analysis-of-valuable-techniques-and-algorithms-used-in-automated-skin-lesion-recognition-systems/158933

Environmental DNA and RNA Metabarcoding: Advancing Insights in Cancer Research

Odangowei Inetiminebi Ogidi, Ejeomo Christopher and Happiness Adaekwu Orlu (2026). *Cancer Exposomics and Environmental Influences on Carcinogenesis* (pp. 279-322).

www.irma-international.org/chapter/environmental-dna-and-rna-metabarcoding/384720

Virtual Reality (VR) as Medical Prevention of Adverse Childhood Experiences (ACEs)

Anastasia Miron (2022). *Research Anthology on Pediatric and Adolescent Medicine* (pp. 450-467).

www.irma-international.org/chapter/virtual-reality-vr-as-medical-prevention-of-adverse-childhood-experiences-aces/298226

Trends of ECG Analysis and Diagnosis

Swanirbhar Majumder and Saurabh Pal (2016). *Handbook of Research on Trends in the Diagnosis and Treatment of Chronic Conditions* (pp. 185-210).

www.irma-international.org/chapter/trends-of-ecg-analysis-and-diagnosis/136517