

# Geography, Memory and Non-Representational Geographies

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## Abstract

I discuss the presence of memory within geography, particularly in relation to the interweaving non-representational/performative/affective ‘turns’. Memory seems under-considered in these non-representational geographies (nrgs) which focus on the affective performativities of the present and the richness and creative potentials therein. As memory is a fundamental aspect of becoming, the roles it plays in the performative moment need to be considered. Richness, potential and creativity emerges not simply from the moment *per se*, but from the legacies of the past carried into the present, not least through memory which underpins imagination, creativity and (productive) affective exchange. Emerging work on geography and memory does show some ‘non-representational’ traits and thus there is a potential for bringing this kind of work more fully into nrg. This is set in wider contexts of geographical approaches to memory, and the notion of ecologies of memories which form of interlinkages between individuals, various social collectives, materialities, texts, and past/present/future timespaces.

## Introduction

The present is clearly burdened with all our temporalities. (Dodgshon 2008, 300)

Maybe we don’t, can’t, choose what to remember. Maybe we can’t control what blunders and tumbles into our days. (Griffiths 2008, 169)

In his article *Steps to an Ecology of Place* Thrift (1999), drawing upon Derrida (1991), talks of memories as a ‘world of cinders’ and as a ‘register of experience that cannot be escaped’ (315). Cinders is surely the wrong term – the cold, dead, inert incombustible remains after fire. Better is *embers*, for they retain a trace of fire – of life – and if disturbed, or fanned by a breath of air, can burst back into renewed life.

Also, are memories wished away? ‘That which cannot be escaped?’ In Thrift’s (2008) non-representational theory (nrt), memory seems underplayed in relation to its close cousins, imagination, emotion, affect. This relative neglect of memory is prevalent elsewhere in nrg. Pile’s (2009) comprehensive consideration of affective/emotional geographies and nrg, includes lengthy ruminations on (un)consciousness, thought, language and so on, but memory barely features. Similarly in other key expressions of nrg (Anderson and Harrison 2010; Harrison 2007, 2008; McCormack 2007), ‘affect’, ‘emotion’, ‘body’, ‘self’ are key themes, whereas memory is at best a ghostly presence (for exceptions, see Anderson 2004; Lorimer 2006). Memory makes us what we are, and, along with emotion/affect, forms the interrelating foundational processes of our ongoing lives (Damasio 1999), and is inextricably linked to imagination/creativity (Greenfield 1997). We are conglomerations of past everyday experiences, including their *spatial textures and affective registers*. Memory should not be seen as a burden of the past, rather it is fundamental to

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1 becoming, and a key wellspring of agency, practice/habit, creativity and imagination, and  
 2 thus of the potential of the performative moment that so interests nrg.

3 Nrg focuses upon practice/performativity/affect as it unfolds – the present moment of  
 4 practice (pmp) – because that is where life happens. Not only are pmps complex time-  
 5 space ‘events’ where meanings and values are constructed, they are rich with ontological,  
 6 political and ethical potentials. My concern is that nrg can creep towards a form of ‘pres-  
 7 entism’ – a reification of the pmp in intellectual, political and ethical terms – due to its  
 8 relative neglect of the trajectories of the past-into-present which are always in place  
 9 through various interconnecting ecological, corporeal, material, cultural, economic and  
 10 memorial flows.

11 Dodgshon (2008, 303) discusses how non-representational geographies (nrgs) have  
 12 focused on ‘the geographies on the moment’ and the ‘present of the now’ (citing May  
 13 and Thrift 2001, 37), and how Deleuzean inspired scholars such as Dewsbury have sought  
 14 to see the present moment as the zone of creative proliferations of possibilities, and as the  
 15 key ‘space’ for addressing the practicing of life. The ‘presentism’ that this risks is to load  
 16 all the source of the richness and potentiality of the pmp onto the very fact that it is the  
 17 frontier, or the living space of becoming, and to devalue the fact that ‘each present carry  
 18 syntheses of all the past within itself at various levels of contraction’ (Dodgshon 2008,  
 19 304). This then is not about the values of pmps (or nrgs) but rather about the source of **3**  
 20 that potential and the extent to which the present moment is seen as a ‘pure’ event.

21 As will be briefly reviewed, geography has a rich legacy of engaging with memory.  
 22 Certain elements of this could be usefully drawn into the nrg milieu to ensure that this  
 23 fundamental aspect of life is more fully accounted for. In return, this lends weight to  
 24 those who are developing accounts of geography-memory which do draw nrg type  
 25 approaches, either explicitly or implicitly, into their work, with an emphasis on perform-  
 26 ativity, affect, practice and potentiality as they address how always-memory-rich-life is  
 27 practiced.

28 There is much to be considered within the interrelationships between individual mem-  
 29 ory (that which is practiced within the neural networks of the individual) and what is  
 30 variously called public, social, cultural or collective memory (that which is strung out  
 31 between people, objects, texts, media and across timespace). As nrg is very much about  
 32 practice/process at the bodily level, memory systems at the level of the organism must be  
 33 vital. I challenge nrg to more fully engage with memory’s role in the affective, perform-  
 34 ative practices of everyday life, in ways which can address the complex ecologies of mem-  
 35 ory (and forgetting) which interlink through individual practicing bodies, texts,  
 36 materialises, past/resent/future timespaces to make the present time deep/complex rather  
 37 than flat/pure.

### 38 *Memory Processes and Their Centrality to Life*

39  
 40 Memory is the ‘cornerstone of the mind’ – ‘it is more than a mere function of the brain,  
 41 as it encapsulates individuals’ inner resources for interpreting [] the world around them’  
 42 (Greenfield 1997, 146). At its most basic, memory is a process of encoding and storing  
 43 records of experience which can be retrieved, or which re-emerge, in subsequent  
 44 practice. This sequence occurs both voluntarily and involuntarily, but importantly, is  
 45 overwhelmingly the latter, and also highly intricate.

46  
 47 Firstly ‘memory’ covers not one process but a whole set of complex interrelating  
 48 processes (Foster 2009). There are many contesting models of this complexity, but also  
 49 recognition of at least three main types of interacting memory – short term, long term

1 and sensory. These in turn are divided into sub-systems, for example, long term memory  
 2 entails procedural memory (skills) and declarative memory (facts – somatic and episodic)  
 3 (Foster 2009). **4**

4 Secondly, the interplay between the conscious and unconscious within thought/mem-  
 5 ory is a vital question in terms of becoming (Schacter 1989; Tulving 1993) and there are  
 6 questions about what status retrieved memory has in the mind's eye. Does it stop being  
 7 memory and become thought? We generally don't and can't control memory in either  
 8 the laying down of information or in its retrieval/re-emergence. Memories well up out  
 9 of the depths of the unconscious and/or work away as dis/enabling background. They  
 10 are not static information, but are reworked in the light of current practice.

11  
 12 New meanings change the past. It is reinterpreted, [] it is reorganized, repopulated. It becomes  
 13 filled with new actions, new intentions, new events that caused us to be as we are. I have to  
 14 discuss not only making up people but making up ourselves by reworking our memories.  
 15 (Hacking 1998, 6)

16 Thus memory not only informs/enables the performative moment, there is an creative  
 17 exchange between the two.

18 Thirdly memory is intimately entwined with many other functions; with that of the  
 19 body (Weiss 1999), emotions and the senses (Jones 2005), and creativity. 'For the poet or **5**  
 20 the artist, "the past" is much what "nature" is [-] the raw stuff which he (*sic*) uses'  
 21 (Thorpe 2009, 1). Thus, the potentialities of the present rest upon creative forces flowing  
 22 through time and not simply on the indeterminacy of the present moment.

23 Memory renders our relationships with others, timespace, information and materiality  
 24 complex, multidimensional and non-linear. Memories are spatially and temporally com-  
 25 plex, or even weird. Dreams are vital-to-life forms of memory which are extraordinary  
 26 travels in timespaced events. Another way of appreciating the centrality of memory to  
 27 life-going-on is to read clinical accounts of those who are unfortunate enough to have  
 28 damaged memory functions and the profound dysfunctionality this brings (Brok 2003).  
 29

### 30 *Geography, Memory, Place and Landscape*

31  
 32 Geography has engaged with memory as a central aspect everyday life practice (Atkinson  
 33 2007; Dodgshon 2008; Johnson 2005; Legg 2004, 2007) focusing on a range of spatial  
 34 registers/processes, such as national identity (Gillis 1996; Pred 2004; Schama 1995; Tolia-  
 35 Kelly 2010); its memorialisation and contestation (Legg 2005; Till 2003, 2008); cities  
 36 (Crang and Travlou 2001); historical landscapes (Della Dora 2008); tourist landscapes **6**  
 37 (DeLyser 2003); place and memorialisation (Hoskins 2007; Mitchell 2003).

38 Given the violent (post)colonial experiences of modern history, and associated conflicts,  
 39 slaughters, displacements/migrations, it is not surprising that work has focused on key  
 40 events and their fallout, such as the holocaust, and the breakup of the British Empire  
 41 (Blunt 2005). The geopolitics of war (Curti 2008) and their accompanying geomemories  
 42 are painful, fraught and ongoing. Sidaway (2009) usefully summarises the recent literature  
 43 on memory and conflict;

44  
 45 There is an enormous literature investigating and exemplifying [these] and other aspects of  
 46 memory, conflict, and public space. See Carl Grundy-Warr and Sidaway (1996) and Sidaway **7**  
 47 and Mayell (2007) for pointers on [] political geography, memorials, and erasure. On the wider  
 48 relationships between memory, performance, monuments, political transformation, and public  
 49 space, see the introduction to the collection by Daniel Walkowitz and Lisa Maya Knauer

#### 4 Geography, memory and non-representational geographies

(2004). For studies of the cultural intersections between war, memory, and history in the UK and elsewhere in Europe, see Richard Lebow et al. (2006).

Added to this litany of troubled/displaced/remembered/forgotten lives are instances of environmental/climate change driven losses and displacement (e.g. Cannavò 2008).

Memory is centrally important to ideas of place (Creswell 2004) and landscape (Wylie 2007). Both are based upon some notion of knowable (remembered) physical space which is distinguished from that around it by having a unique configuration – city, district, park, house, vista, a place where something special happened (first kiss, death of a loved one). Notions of being-in-place are powerful, even fundamental to everyday life (Casey 1993). Within this memory is key as it is one means by which people are in place/landscape. Recently some geographers have been keen to portray places/landscapes as much as temporal processes as they are spatial entities (Amin and Thrift 2002; Massey and Thrift 2003) with distinctive patternings forming out of intersecting passages of all manner of human and non-human traffic. If anything, memory becomes more critical still in weave such places together.

#### FROM COLLECTIVE MEMORIES TO ECOLOGIES OF MEMORIES

From the pioneering work of Halbwachs (1992) and within much of the above, there has been a focus on public, social, shared, collective memories, as these are such powerful life/space/place shaping forces.

Whether one refers to ‘collective memory’, ‘social memory’, ‘public memory’, ‘historical memory’, ‘popular memory’ or ‘cultural memory’, most would agree [with Edward Said] that many ‘people now look to this refashioned memory, especially in its collective forms, to give themselves a coherent identity, a national narrative, a place in the world. (Hoelscher and Alderman 2004, 348–349)

The recent overview of memory in geography (Johnson and Pratt 2009) refers overwhelmingly to various forms of collective memories particularly those revolving around national identities.

While an overly sharp distinction between collective memories and individual memories is untenable, we do need to attend more fully to the more specific, intimate, private memories of individuals and families. It is possibly the focus on collective/cultural memories which has confined memory to the margins of nrg. For interests in memory to ‘fit’ within nrgs more intimate, relational, performative bio-cultural approaches are needed. Each of us bears freights of memory bound up with the domestic spaces and collectives we grew up in (Dillon 2006). These shape us and our practices most profoundly. There are ecologies of memory (Tolia-Kelly 2010) that exist between the public and the private, between larger histories and those of families and individuals, between memory functions, material, texts, images and senses.

#### *Memory and the Non-Representational Turn*

As already set out much is made of the pmp in nrg as pioneered by Thrift (2004a,b, 2008) and embellished by others (Anderson and Harrison 2010; Dewsbury et al. 2002; Harrison 2007; Lorimer 2005; McCormack 2007; Pile 2009). The present is where life is actually lived – the ever-moving front of becoming with all its material, embodied, relational, affective, performative richness and possibility.

1 This is a world between potential and determination, between what has happened and what  
2 could, a world captured in the tension of its present tense of becoming, a not yet enacted  
3 moment where we meet and greet ourselves in the affect that inspires action. (Dewsbury et al.  
4 2002, 439)

5 It is here that nrg can stray towards a kind of 'presentism' where the event is taken as  
6 pure – in isolation from temporal trajectories. Life in (extreme) present tense. This comes  
7 from interests in *practice* and *performativity*, and all the import of their actual doing, and  
8 from all the *possibilities* of the event – which might always go differently – and flicker  
9 new ethics and politics into life. Once opened up to scrutiny, the pmp becomes a com-  
10 plex affective terrain. Thrift (2008) has highlighted the moment of 'raw life' (the small  
11 lag between initiation of action and consciousness of action) and all the political, ethical,  
12 disciplinary and even commercial import it has. But the richness and potential of the  
13 pmp comes from what flows into it from previous moments, materially, through the  
14 body, through memory of one kind or other.

15 Something of the discounting of individual memory is evident in recent highly influ-  
16 ential (nrg-related) writings on landscape [Sebald 1998 (not a geographer but a striking  
17 writer on landscape); Wylie 2005, 2007, 2009]. These articles offer rich  
18 performative/phenomenological accounts of being-in-landscape, opening up embodied  
19 practices (walking, climbing, sitting, looking, engaging with the immediate materiality),  
20 (in some respects) the hidden histories and connectivities of the landscapes, and the con-  
21 ceptual milieu the walkers carry with them. What is striking is that the landscapes are not  
22 previously (habitually) known to the writers. They come as strangers. This does not de-  
23 value these accounts, the strangeness of landscape is key to the project as the moment of  
24 encounter is pure. But these works would have had to be markedly different if these  
25 were familiar places to the writers through their *own memories* – maybe as landscapes of  
26 childhood, or as walked with a lover in previous times. Most people live and work in  
27 landscapes familiar to them and thus their immersion in them is temporal and memorial  
28 as well as performative/embodied and spatial. As Williams (1985, 72) says

29  
30 The landscape takes on a different quality if you are one of those who remember. The scenery  
31 is [ ] never separate from the history of the place, from the feeling for the lives that have been  
32 lived there.

33 Saramago (2009, 13) also stresses that when considering a landscape we are never just in  
34 'the precise moment when the landscape lies in front of us' but are strung out in time  
35 through 'memory and modes'. For a reminder of how markedly places and walks can be  
36 shaped and shadowed by memories, see Sidaway (2009).

37 Memory is a key means by which the present is practiced. Calvin (1996) (drawing  
38 upon Gombrich) says that 'perception may be regarded primarily as a modification of [ ]  
39 anticipation' (33). So our dealings with(in) the present rest upon our always-at-work  
40 memories and stocks of experience to script our responses and actions. Hunter (1964,  
41 14–15) puts it thus:

42  
43 memory [ ] contains one common thread of meaning [ ] what the person does and experiences  
44 here and now is influenced by what he [*sic*] did and experienced at some time in his past. When  
45 we talk of [ ] memory we are [ ] drawing attention to relationships between past and present  
46 activities. These relationships arise out of a fundamental characteristic of human beings.

47 Some work does deal with memory at the more personal level, addressing how our spa-  
48 tial relations are not merely relations between current body and current space, but a  
49

1 hyper-complex entanglement of past/present spatial relations. In his exploration of an  
 2 'ecological-economic' experiment in reindeer herding in Scotland, Lorimer (2006)  
 3 explores a number of 'registers of memory', these being photographic, textual, embodied,  
 4 oral, human and non-human. And Lorimer (2007, 6) concludes, in a brief review of  
 5 memory as cultural rhythm and cycle;

6 Evidently, memory functions by different modes, whether it is carefully orchestrated or floods  
 7 over us, whether it is felt to inhabit commonplace actions, treasured sites or discarded goods.  
 8

9 Anderson (2004) talks of the moment when someone chooses to play a record out of  
 10 their collection, stating, 'to play music incorporates the momentary performance of an  
 11 intentional act of discretion' (6). This is clearly to an extent true, but I feel the degree of  
 12 intentional discretion is open to question. Or rather, the relationship between conscious  
 13 choice and all the unconscious processes which are framing and forming that choice are  
 14 more murky and complex than we know and probably can know. Why do we choose  
 15 what we choose? The choice rises up from the unconscious memory the workings of  
 16 which are – at best – very obscure.  
 17

18 *Weird Timespaces (Memories of Geographies and Geographies of Memories)*

19 Thrift (2008, 118, citing Gell 1998, 222–223) does say that people are;

20 rather ill-defined constellations [ ] not confined to particular spatio-temporal coordinates, but  
 21 consist of a spread of biographical events and memories of events, and a dispersed category of  
 22 material objects, traces, and leavings.  
 23  
 24

25 So we don't just 'live in the moment' but in a progressing compendium of interacting  
 26 lived moments. Memory 'fragments space' (Mels 2004) and time, and builds us from  
 27 those reworked fragments.

28 This view does not deny the progression of physical time through which, say, bodies  
 29 grow and age (think of dendrology). But it takes a Bergsonian–Deleuzian notion of dura-  
 30 tion in time in different ways by differing materials/beings. Pasts persist as virtual fields  
 31 which may or may not fold into the present. Memory is a key form of such 'timespace  
 32 travel', along with materiality and (sensed) embodiment. We are scattered in timespace  
 33 through memory and other vectors. As Ingold says of 'tasksapes', they  
 34

35 have a temporal aspect. In the present [ ] they are experienced as a muscular engagement but  
 36 [they] also involve retentions of the past, as experience and memory; and projections into the  
 37 future, as hopes, aspirations. (cited in Pearson 2006, 219)

38 Bergson (2004, 170) points out that 'perception is never a mere contact of the mind with  
 39 the object present; it is impregnated with memory-images which complete it as they  
 40 interpret it'.

41 Damasio (1999) has stated that affective becoming *does* make us transient entities of the  
 42 present moment, and yet, at the same time, we have an 'autobiographical self', 'a non-  
 43 transient collection of unique facts and ways of being of systemised memory' (17). We  
 44 are thus becoming creatures of spatial remains. Our spatial relationships of the moment  
 45 are shaped by previous experiences. Memory (of one kind or another) is then a funda-  
 46 mental aspect of becoming, intimately entwined with space, affect, emotion, imagination  
 47 and identity. Understanding the nature of time and the relationship between past, present  
 48 and future is a daunting challenge that human knowledge has made little impact on thus  
 49

1 far. But in dealing with how we live in timespace, memory is clearly central, but is con-  
 2 sequences uncertain. 'Past and present might be concurrent or not, might stop and start  
 3 with the erratic spasms of the mind, of memory' (Schwartz 2007, 14).

4 Geographical work is emerging which deals with memory at the more personal, indi-  
 5 vidual level, trying to address how our spatial relations, our spatial lives are not merely  
 6 present relations between body and current space, but a fantastically complex entangle-  
 7 ment of self, past spatial relations and memory in current life. Work has begun to explore  
 8 complex and fractured relationships between past, present, material traces and place (De-  
 9 Silvey 2006; Lorimer 2006; Lorimer and MacDonald 2002; Tolia-Kelly 2004). This **8, 9**  
 10 shares interests with work that explores how memory is mediated through performance  
 11 and art intervention (Bosco 2004; Pinder 2001; Till 2005), exploring how the self is a  
 12 contingent practice, where outcomes result from collaboration between individuals,  
 13 groups, objects all of which can occupy the past as much as the present and how there is  
 14 an exchange between individual and collective memories (Papoulias 2003). There is a  
 15 particular focus on the entanglements of materiality, memory, time, place and practice  
 16 (DeSilvey 2007) which stresses the performative and affective, but which sees such pro-  
 17 cesses as time deep. Edensor (2005) has considered the affective materiality of being  
 18 amongst industrial ruins, and Pile (2005), Till (2005) have considered how ghosts, and **10**  
 19 memories as ghosts, can haunt cities.

20 All this work does then explore ecologies of memory as an emergent contingent ele-  
 21 ment of similarly practiced selves. These are then developing nrg type reflections on prac-  
 22 tices of self but stressing the embeddedness in time through materiality, body and  
 23 memory, rather than embeddedness in present flat space. This chimes with nrg's focus on  
 24 the practice and the performativity of the affected/affecting body. Collective memories  
 25 are vital but in the end they are lived out in individualised contexts of everyday lives in  
 26 bodies moving through timespace.

27 Cues for presenting the filigrees of memory/self/place/place/practice can also be found  
 28 in literature, theatre and performance studies. Heddon (2008) explores a number of auto-  
 29 biographical performance based 'autotopographies' which delve into past-self-in-place. A  
 30 key example is Pearson (2006) which explores memory and past life in landscape through  
 31 a series of performances and what are geographical accounts of a personal history in  
 32 home, family, locality and region. Dillon (2006) charts the entangled memories, emotions  
 33 and domestic spatialities of a remembered family home after the death of a parent. Prosser  
 34 (2005) offers an alternative account of how photographs interplay with memory, time  
 35 and loss. King (2000) explores autobiographical texts (films, popular fictions, women's  
 36 writing) to explore how self is constructed through narrative and memory. Madden, in  
 37 the film *My Winnipeg*, magically recreates the entanglements of memories of growing up  
 38 in a city and a family within that city. Benjamin (2006) similarly explores growing up in  
 39 a city, and the domestic spaces of the home, in an account with stresses objects, spaces  
 40 and memory, more than the conventional structure of chronological life events. Proust,  
 41 in the monumental *In Search of Lost Time*, journeys into the remembered past (as lived/  
 42 living space) precipitated by unbidden memories. What is distinctive about these works is  
 43 that they are attempts to grapple with the uniqueness of individual (geographic) memory  
 44 and the complexities of revisiting other spaces and times which remain with(in) us as we  
 45 live on.

46 Mantel (2003) suggests that there are many geological understandings of memory (e.g.  
 47 layers – like strata). She says that for her, 'memory is like St. Augustine's spreading limit-  
 48 less room. Or a great plain, a steppe, where all the memories are laid side by side, at the  
 49 same depth, like seeds under the soil' (25). I don't feel such static spatial metaphors are

adequate for memory. Memory is formed of living labyrinthine entanglements of many virtual (living) landscapes in unconscious memory stores, which are dark (as in not illuminated by conscious recollection) and thus unmapped and unmappable, but which are subject to the fluidity of emotional/affective convection currents (and more violent disturbances) as we live on and they might re-emerge in relation to current practice. The spatio-temporal weirdness of memory can be glimpsed in moments of reverie (Bachelard 1960), in flashes of involuntary memory which twist space-time (Game 1991, 2001), and in certain episodes of madness where people become overwhelmed by, and lost within, contortions of memory (Philo 2006).

Movement through chronological time and Euclidean space is scrambled with earliest memories becoming new memories once they are called into consciousness and refreshed and rescripted in relation to the present. Memories are living landscapes seen obliquely and from an always moving viewpoint of on-going-life. So I suggest memories are always in parallax, sliding over each other. Distant memories can seem to stand still, like a far-off hill seen from a moving train, making a backdrop to whatever the closer foreground has to show as it rushes by. But, of course, it is the perceiver who is moving through the moment as the near past and more distant past make an animated landscape.

### *Conclusions*

Non-representational/emotional/affective approaches grew out of dissatisfaction with representational approaches because they drove too big a gap between the object of study and the process of study and because they missed not only the bulk of everyday life in practice, but also its richness, its key registers which are critical to politics, ethics, culture and economy. Here, I call for memory to be drawn more fully into these approaches as a counter to their tendency to presentism. The present is full of possibilities but those spring from the trajectories moving into the present as well as from the openness of the moment. Some of these trajectories will be sadness, damage, injustice and other burdens; others will be skill, happiness, joy, hope, love – our sum experience of spatial life which is always present in the present through memory.

Memory is a matter of ethics (Margalit 2004) formed both through collective memories which address, or otherwise, sufferings and injustices, and how we live with each other and each others' past lives. Geography can help open up the tracings of the spatial remains that make us. It can help trace out the legacies of the past we carry through memory as we practice the present and enter the future. Such tracings are not to tie us to any fixed past. They are, or can be, a creative (therapeutic) process of affective mapping.

The affective map is not a stable representational of a more or less unchanging landscape; it is a map less in the sense that it establishes a territory than it is about providing a feeling or orientation and facilitating mobility. [It suggests] something essentially revisable; when it works, it is a technology for the representation to oneself of one's own historically conditioned and changing affective life. (Flatley 2008, 7)

Opening up the implications of memory in individuals and groups (e.g. families) presents profound challenges in conceptual and methodological terms. It is often said that the greatest unknown lands for science to explore are now that of the brain and questions of consciousness in relation to emotion, affect and memory. The non-representational social sciences have their role to play in this, and exploring the implications of memory within them seems to me a demanding and exciting challenge.



**1** *Acknowledgement***2** Huge thanks to the editor and two referees whose comments transformed this paper.  
**3****4** *Short Biography***5** XXXXXXXX. **11****6** *Note***7** \* Correspondence address: Owain Jones, CCRI, Oxstalls Lane, Longlevens, Gloucester GL50 2RH, UK. E-mail: **19**  
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During the copy-editing of your paper, the following queries arose. Please respond to these by marking up your proofs with the necessary changes/additions. Please write your answers on the query sheet if there is insufficient space on the page proofs. Please write clearly and follow the conventions shown on the attached corrections sheet. If returning the proof by fax do not write too close to the paper's edge. Please remember that illegible mark-ups may delay publication.

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Query reference	Query	Remarks
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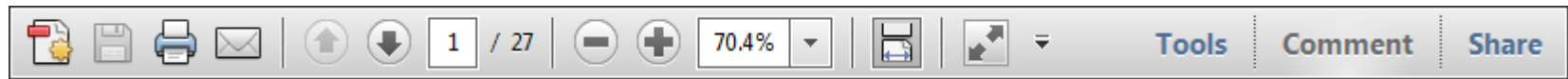
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USING e-ANNOTATION TOOLS FOR ELECTRONIC PROOF CORRECTION

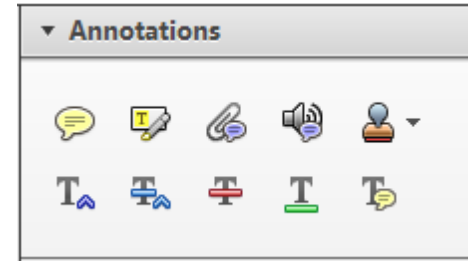
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Once you have Acrobat Reader open on your computer, click on the [Comment](#) tab at the right of the toolbar:



This will open up a panel down the right side of the document. The majority of tools you will use for annotating your proof will be in the [Annotations](#) section, pictured opposite. We've picked out some of these tools below:



**1. Replace (Ins) Tool – for replacing text.**

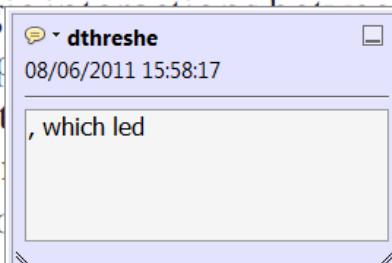


Strikes a line through text and opens up a text box where replacement text can be entered.

**How to use it**

- Highlight a word or sentence.
- Click on the [Replace \(Ins\)](#) icon in the Annotations section.
- Type the replacement text into the blue box that appears.

standard framework for the analysis of microeconomics. Nevertheless, it also led to the emergence of strategic behavior in the number of competitors in the industry. This is that the structure of the industry, which led to the emergence of imperfect competition. The main components of the industry, which are exogenous to the industry, are important works on entry by Shirasaka (henceforth) we open the 'black b



**2. Strikethrough (Del) Tool – for deleting text.**



Strikes a red line through text that is to be deleted.

**How to use it**

- Highlight a word or sentence.
- Click on the [Strikethrough \(Del\)](#) icon in the Annotations section.

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**3. Add note to text Tool – for highlighting a section to be changed to bold or italic.**



Highlights text in yellow and opens up a text box where comments can be entered.

**How to use it**

- Highlight the relevant section of text.
- Click on the [Add note to text](#) icon in the Annotations section.
- Type instruction on what should be changed regarding the text into the yellow box that appears.

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**4. Add sticky note Tool – for making notes at specific points in the text.**

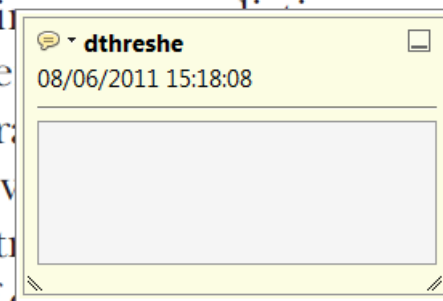


Marks a point in the proof where a comment needs to be highlighted.

**How to use it**

- Click on the [Add sticky note](#) icon in the Annotations section.
- Click at the point in the proof where the comment should be inserted.
- Type the comment into the yellow box that appears.

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USING e-ANNOTATION TOOLS FOR ELECTRONIC PROOF CORRECTION

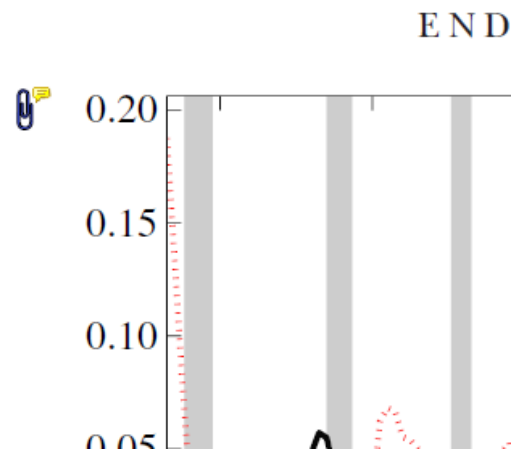
**5. Attach File Tool – for inserting large amounts of text or replacement figures.**



Inserts an icon linking to the attached file in the appropriate place in the text.

**How to use it**

- Click on the [Attach File](#) icon in the Annotations section.
- Click on the proof to where you'd like the attached file to be linked.
- Select the file to be attached from your computer or network.
- Select the colour and type of icon that will appear in the proof. Click OK.



**6. Add stamp Tool – for approving a proof if no corrections are required.**

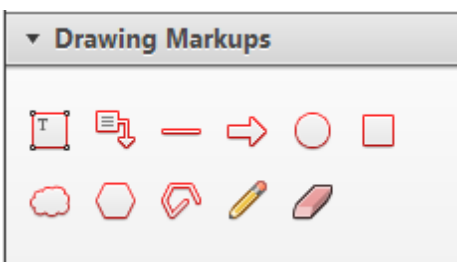


Inserts a selected stamp onto an appropriate place in the proof.

**How to use it**

- Click on the [Add stamp](#) icon in the Annotations section.
- Select the stamp you want to use. (The [Approved](#) stamp is usually available directly in the menu that appears).
- Click on the proof where you'd like the stamp to appear. (Where a proof is to be approved as it is, this would normally be on the first page).

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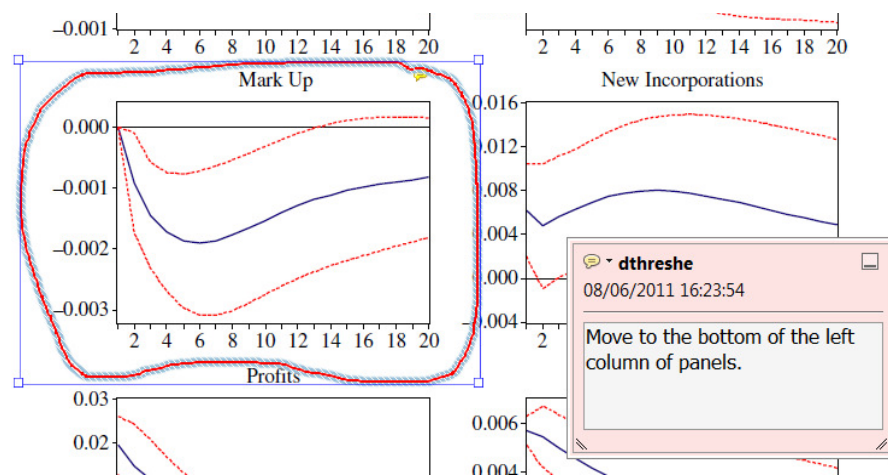


**7. Drawing Markups Tools – for drawing shapes, lines and freeform annotations on proofs and commenting on these marks.**

Allows shapes, lines and freeform annotations to be drawn on proofs and for comment to be made on these marks..

**How to use it**

- Click on one of the shapes in the [Drawing Markups](#) section.
- Click on the proof at the relevant point and draw the selected shape with the cursor.
- To add a comment to the drawn shape, move the cursor over the shape until an arrowhead appears.
- Double click on the shape and type any text in the red box that appears.



For further information on how to annotate proofs, click on the [Help](#) menu to reveal a list of further options:

