The lure of horror

Christian 'Jeepers' Jarrett with a Halloween special, on the intriguing insights into our psyche offered by scary stories

Fear coils in your stomach and clutches at your heart. It’s an unpleasant emotion we usually do our best to avoid. Yet across the world and through time people have been drawn irresistibly to stories designed to scare them. Writers like Edgar Allen Poe, H.P. Lovecraft, Stephen King, and Clive Barker continue to haunt the popular consciousness. Far longer ago, listeners sat mesmerised by violent, terrifying tales like Beowulf and Homer’s Odyssey.

‘If you go to your video store and rent a comedy from Korea, it’s not going to make any sense to you at all,’ says literature scholar Mathias Clasen based at Aarhus University, ‘whereas if you rent a local horror movie from Korea you’ll instantaneously know not just that it’s a horror movie, but you’ll have a physiological reaction to it, indicative of the genre.’

Why is horror the way it is?

Fresh from a study visit to the Center for Evolutionary Psychology at the University of California, Santa Barbara, Clasen believes the timeless, cross-cultural appeal of horror fiction says something important about humans, and in turn, insights from evolutionary psychology can make sense of why horror takes the form it does. ‘You can use horror fiction and its lack of historical and cultural variance as an indication that there is such a thing as human nature,’ he says.

This nature of ours is one that has been shaped over millennia to be afraid, but not just of anything. Possibly our ancestors’ greatest fear was that they might become a feast for a carnivorous predator. As science writer David Quammen has put it, ‘among the earliest forms of human self-awareness was the awareness of being meat’. There’s certainly fossil evidence to back this up, suggesting that early hominids were preyed on by carnivores and that they scavenged from the kill sites of large felines, and vice versa. Modern-day hunter-gatherers, such as the Ache foragers in Paraguay, still suffer high mortality rates from snakes and feline attacks. Such threats have left their marks on our cognitive development. Research by Nobuo Masatake and others shows that children as young as three are especially fast at spotting snakes, as opposed to flowers, on a computer screen, and all the more so when those snakes are poised to strike. Modern-day threats, such as cars and guns, do not grab the attention in this way. That we’re innately fearful of atavistic threats is known as ‘prepared learning’. Another study published just this year by Christof Koch and his team has shown how the right amygdala, a brain region involved in fear learning, responds more vigorously to the sight of animals than to other pictures such as of people, landmarks or objects.

Viewing the content of horror fiction through the prism of evolutionary evidence and theory, it’s no surprise that the overarching theme of many tales is that the characters are at risk of being eaten. ‘Do we have many snakes or snake-like creatures or giant serpents in horror fiction?’ Clasen asks. ‘Yes we do: look at Tremors – they were really just very big snakes with giant fangs’. In fact, many horror books and movie classics feature oversized carnivorous predators, including James Herbert’s The Rats, Shaun Hutson’s Slugs, Cat People, King Kong, and the Jaws franchise, to name but a few. Where the main threat is a humanoid predator, he or she will often be armed with over-sized claws (Freddie Krueger in Nightmare on Elm Street) or an insatiable taste for human flesh (e.g. Hannibal Lecter in the 1981 novel Red Dragon).

Vampires and other mythical monsters

And yet, arguably, the most iconic horror monsters are not the furry or slimy toothed beasts of the natural world, but the unreal, mythical fiends that we call vampires, werewolves, zombies and ghosts. Can a psychological approach explain their enduring appeal too? On the face of it, the answer is straightforward: with the exception of ghosts, these mythical monsters are exaggerated, souped-up versions of the more
realistic threats faced by our ancestors. They’re strong, they’re unstoppable and very, very hungry.

But digging deeper, these monsters may also endure culturally because they press the right cognitive buttons. For example, just as Pascal Boyer (cited in Barrett, 2000) has argued that many religious entities thrive by being ‘minimally counter-intuitive’ – that is, they fulfill nearly all the criteria for a given category, but violate that category in one particularly memorable, attention-grabbing fashion (a random example would be Moses and the bush that’s in flames but doesn’t burn) – a similar account could explain the enduring appeal of horror monsters. In this vein (ahem), vampires fit the human category in most respects, except they are undead. Ghosts are similarly person-like but have no body.

Another cognitive button pressed by horror would be our tendency to see agency where there is none, a kind of over-active theory of mind that facilitates a belief in wraiths and spectres. Similarly, perhaps clowns (e.g., as in Stephen King’s 1986 novel IT) have the capacity to provoke fear because their make-up conceals their true facial emotions, thus thwarting our instinctual desire to read other people’s minds through their faces (it’s notable that many other horror baddies conceal their faces with masks).

There are other overlaps with religion based around the disgust-reaction and the far-reaching effects of our deep-seated fear of infection. The term ‘psychological immune system’ is used to describe findings such as that people are more prone to racial prejudice when primed with reminders of infection. In the same way that many religious practices are thought to have evolved to deal with corpses and the infectious health risks they present, the cultural origin and persistence of some mythical monsters can similarly be understood in terms of our fixation with death and infection. For example, one theory has it that the vampire myth emerged from a pre-scientific misinterpretation of the appearance of corpses – bloated and apparently full of fresh blood. A 16th century skeleton with a brick jammed posthumously in its jaw was uncovered recently from a mass grave near Venice. Archaeologists at the University of Florence believe the brick was intended to prevent the corpse feasting after death.

The horror creature whose popularity feeds most obviously from our fear of contagion is the unstoppable, flesh-eating automaton known as a zombie. One possible source of the zombie myth is Haiti where deceased relatives are sometimes believed to be living with their families in an undead state. Research suggests these ‘zombies’ in reality are brain-damaged or mentally ill relatives, but a controversial suggestion made by anthropologist Wade Davis is that victims are enslaved by witch doctors using a ‘zombie powder’ containing tetrodotoxin, a compound found in puffer fish, which can cause zombie-like symptoms such as lassitude and loss of will.

Besides its disgustingness, another feature of the zombie movie monster that exploits our cognitive machinery is known as the uncanny valley (see box overleaf) – that is, there’s something particularly unnerving about an entity that moves jerkily in a way that’s nearly human, but not quite. Zombies also drastically reduce the moral complexity of life,’ says Clasen. ‘Zombies are unequivocally bad, they need to be killed, they need to be shot in the head. There is no moral shade of grey and that can be a pleasurable fantasy – a way to relax your

Psychoanalysis and metaphor

Traditionally, horror fiction has been interpreted in cultural and metaphorical terms, often with a psychoanalytic bent. By this account, the vampire’s blood lust can be seen as representing repressed sexual desires, and the threat of daylight as the disapproval of society. Werewolves symbolise the beast within us all, our perennial battle to constrain the insatiable Id.

Freud himself wrote about ‘das Unheimliche’ in literature, which translates as ‘the uncanny’. In a long, meandering essay he said an uncanny experience occurs ‘either when infantile complexes which have been repressed are once more revived by some impression, or when primitive beliefs which have been surmounted seem once more to be confirmed.’

Later commentators have picked up these ideas and interpreted horror fiction as a safety valve for our raging passions and fears. While this idea may contain a kernel of truth, many readers will find psychoanalytic interpretations far-fetched. Barbara Creed (cited by Tudor, 1997), for instance, has argued that the ubiquity of blood, and especially bleeding women, in horror films is a manifestation of castration anxiety; David Gilmore (cited by Clasen, 2012) sees the abundance of richly toothed monsters with gaping mouths as a sign of the oral-aggressive stage of psychosexual development; and Elaine Showalter (cited by Clasen, 2010) sees Dr Jekyll and Mr Hyde as representing turn-of-the-century homosexual panic, with the novel’s ‘chocolate-brown fog’ indicative of anal sex.

Other metaphorical and cultural interpretations are more credible. For instance, George Romero has admitted that the zombies in Night of the Living Dead (1968) were intended to symbolise the mindless consumer society of the USA. The tensions between vampire and human communities in True Blood seem to be an obvious metaphor for racial tension – an undertone arguably shared by other vampire tales such as the Anita Blake Vampire-Hunter series. And no doubt films like Outbreak (1995) tapped into the then and now media-driven fear of mass infection.
lure of horror

The uncanny valley

One likely reason that zombies are so disturbing is that they are located in the depths of what roboticist Masahiro Mori called the ‘uncanny valley’. In the 70s Mori noticed that as robots became more realistically human, their appeal increased until, at that is, they became too human-like, at which point people’s reaction to them darkened, as they experienced an eerie feeling. Zombies have human faces and bodies, but with their plodding gait and empty gaze it’s clear that they’re not fully human, which particularly creeps us out. An explanation proposed for the uncanny valley is that an entity that appears almost like us, but not quite, triggers our evolved fear for disease and infection, or an innate mating aversion. Mori himself thought that ultra-realistic entities remind us of corpses and death. A recent study by Shawn Steckfnger and Asif Ghazanfar showed that macaque monkeys also exhibit the uncanny valley. They were found to look longer at pictures of real or unrealistic macaque faces than pictures of almost-real cartoon macaque faces, with looking-time taken to be an indicator of preference. Steckfnger and Ghazanfar proposed that as an entity becomes hyper-realistic it triggers raised perceptual expectations – for example, about skin tone and subtle movements – and when these are not met, an uncomfortable feeling ensues.

Who wants to be afraid?

Psychology can help explain why horror takes the persistent form that it does, but that still leaves the question of why we should want to scare ourselves through fiction in the first place. One suggestion is that, like play, it allows us to rehearse possible threatening scenarios from a position of relative safety. ‘Movie monsters provide us with the opportunity to see and learn strategies of coping with real-life monsters should we run into them, despite all probabilities to the contrary,’ says Fischoff. ‘A sort of covert rehearsal for… who knows what.’ Despite its fantastical elements, Clasen explains that successful horror fiction is usually realistic in its portrayals of human psychology and relationships. That’s where horror matters, Clasen says, ‘that’s where horror can teach us something truly valuable.’

Further clues come from a line of inquiry, most of it conducted in the 80s and 90s (coinciding with the rising popularity of slasher films), that looked at how individual differences in horror film consumption. After all, although many people enjoy horror, most of us don’t. Who are these people who pay out money to be scared? A meta-analysis of 35 relevant articles, by Cynthia Hoffner and Kenneth Levine published in 2005 in Media Psychology, highlights the principal relevant traits: affective response; empathy; sensation seeking; aggressiveness; gender; and age.

The more negative affect a person reports experiencing during horror, the more likely they are to say that they enjoy the genre. Media experts like Dolf Zillmann make sense of this apparent contradiction as a kind of conversion process, whereby the pleasure comes from the relief that follows once characters escape danger. This explanation struggles to account for the appeal of slasher films, in which most characters are killed. Part of the answer must lie with meta-emotion – the way we interpret the emotional feelings we’re experiencing, with some people finding pleasure in fright. Another possibility is that, for some, pleasure is derived from the sense that film victims are being punished for what the viewer considers to be their immoral behaviour. Consistent with this, a 1993 study by Mary Oliver found that male high school viewers who endorsed traditional views on female sexuality (e.g. ‘it’s okay for men to have sex before marriage, but not...')
women), were more likely to enjoy horror movie clips, especially if they involved a female victim portrayed with her lover.

Other researchers have examined related claims that female characters are more likely to be killed than male characters, especially if they’re portrayed as sexually promiscuous. A 2009 study by Andrew Walsh and Laurier Branford analysed 50 slasher films released between 1960 and 2007, including the Texas Chainsaw Massacre and Hatchet. The researchers found that male characters were more likely to be victims of rapid, serious violence, whereas females were more likely to be victims of less serious, but more drawn-out violence, including confinement and stalking. Female characters were also more likely to be seen partially or fully naked, and when scenes involved a mix of sex and violence, the victim was more likely to be female. ‘Frequent depictions of women in prolonged states of terror may reinforce traditional gender schemas of women as helpless and, as a result, may serve to normalise aggression or hostile attitudes toward women,’ Walsh and Branford said.

Unsurprisingly perhaps, people with lower self-reported empathy levels are also more likely to say they enjoy horror films. However, this literature is hampered by conflicting findings depending on whether one includes or omits films that include scenes of graphic torture and violence. People who seek out intense thrills and experiences (as measured by Marvin Zuckerman’s Sensation-Seeking Scale), and those who are more aggressive, are also more likely to report enjoying horror films, as are men, probably in part because they tend on average to be more aggressive and have lower empathy (see ‘Your brain on horror’).

With regard to age, there’s a suggestion that enjoyment rises through childhood, peaks in adolescence and then gradually fades with age. Related to this is the ‘snuggle theory’ – the idea that viewing horror films may be a rite of passage for young people, providing them with an opportunity to fulfil their traditional gender roles. A paper from the late 1980s by Dolf Zillmann, Norbert Mundorf and others found that male undergrads paired with a female partner (unknown to them, a research assistant), enjoyed a 14-minute clip from Friday the 13th Part III almost twice as much if she showed distress during the film. Female undergrads, by contrast, said they enjoyed the film more if their male companion appeared calm and unmoved. Moreover, men who were initially considered unattractive were later judged more appealing if they displayed courage during the film viewing. Scary movies and monsters are just the ticket for girls to scream and hold on to a date for dear life and for the date (male or female) to be there to reassure, protect and defend, if need be, destroy the monster,’ say Fischhoff. ‘Both are playing gender roles prescribed by a culture.’

### Conclusion

The horror genre, as popular as ever, offers intriguing insights into our psyches and is surely ripe for further investigation. Brain-imaging technology is only just starting to be deployed to study the neural correlates of the horror experience. The notion of meta-emotion, or how some people are able to interpret negative affect as a positive experience, is another intriguing area for study. Norbert Mundorf at the University of Rhode Island, one of the scholars who studied individual differences in horror appreciation back in the 80s and 90s, admits that he and colleagues perhaps focused too much on the enjoyment of slasher films, neglecting the psychology of more subtle horror experiences, which would have been trickier to study. Looking ahead he believes that changes to the way we consume media – especially the ability to access niche material online in limitless supply – also poses new questions about our enjoyment of horror. ‘We need to understand how this media-rich environment affects consumption of extremely violent and disturbing content,’ he says. ‘In particular, one would expect that it provides unlimited material for those high in sensation-seeking. New research approaches would benefit from analysing media consumption in this virtually unlimited virtual environment.’

Another intriguing angle for the future is whether insights from psychology could help guide horror writers and producers to develop even scarier material. Clasen believes most successful horror writers have an intuitive grasp of human biology and psychology and used that in stories to creep people out’ – of human biology and psychology and used that in stories to creep people out’ – he agrees the ultimate horror story is when the day comes that there is no horror fiction, if it ever does, that we should probably worry. As Arthur Conan Doyle wrote, ‘Where there is no imagination there is no horror.’

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