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Anthropomorphism in Animation: Exploring Emotional Connection and Narrative Techniques

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ABSTRACT

Anthropomorphism in animation fosters emotional engagement by merging human-like traits with the distinctive behaviors of animals. This paper examines how three major 3D animated films—Kung Fu Panda (2008), Zootopia (2016), and Sing 2 (2021)—utilize anthropomorphic characters to create humor, emotional depth, and audience empathy. Using a qualitative comparative case study approach, the analysis explores how genre conventions, animation technologies, and species-specific character designs contribute to storytelling and emotional resonance. Findings highlight how advancements in facial rigging, motion dynamics, and expressive animation have enhanced the portrayal of nonhuman characters with relatable human emotions. The study emphasizes the continued versatility of anthropomorphism as a storytelling device, capable of addressing universal themes such as self-discovery, social bias, and creative aspiration across diverse narrative genres.

Keywords: Anthropomorphism, Animation, Character Design, Emotional Engagement, Narrative.

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1. Introduction

Anthropomorphism—the attribution of human traits, emotions, and intentions to nonhuman animals or inanimate objects—has long been embedded in human psychology and cultural expression (Dolins, 2017). From ancient mythology and religious symbols to modern animated storytelling, anthropomorphism has served as a vital mechanism for bridging the emotional and cognitive divide between humans and the nonhuman world. As Dolins (2017) notes, these interpretations may range from imaginative projections commonly found in children's stories to more structured, scientific applications used to understand animal behavior.

Within the field of animation, anthropomorphism plays a particularly significant role. It allows creators to develop nonhuman characters that are emotionally accessible while retaining species-specific traits that enhance storytelling. This approach not only supports narrative structure but also fosters viewer empathy by aligning recognizable human emotions with animal behavior. According to

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Mitchell, Thompson, and Miles (1997), anthropomorphism may reflect the audience's capacity for empathy, enabling viewers to project human thoughts and motivations onto animal figures. This capacity becomes especially pronounced in animated films, where characters are designed with exaggerated facial expressions and physical gestures intended to communicate emotion and intention with clarity (Williams, 2001).

Advancements in digital animation technologies have further amplified the expressive power of anthropomorphic characters. Innovations in facial rigging, motion capture, and rendering have made it possible to convey subtle emotional nuances through nonhuman figures. Films such as *Kung Fu Panda* (2008), *Zootopia* (2016), and *Sing 2* (2021) exemplify how anthropomorphism, supported by technical sophistication, enhances both narrative depth and emotional resonance. These films do not simply use anthropomorphism as a visual style but as a core narrative strategy that speaks to universal human experiences.

The purpose of this study is to examine how anthropomorphism functions as a narrative and emotional tool in animated storytelling. By conducting a comparative analysis of three landmark 3D animated films, this paper investigates how genre conventions, cultural symbolism, and technical animation practices contribute to the effectiveness of anthropomorphic characters in eliciting empathy and shaping audience engagement. The analysis draws on key theoretical frameworks and practitioner insights, including the work of Dolins (2017), Mitchell et al. (1997), and Williams (2001), to explore the intersection of character design, technology, and narrative form.

While anthropomorphism is widely recognized in animation, relatively little research has addressed how it operates across different genres or in relation to specific animation methods. This paper seeks to fill that gap by analyzing the emotional and symbolic functions of anthropomorphic characters across a range of narrative contexts.

2. Methodology

This study adopts a qualitative, comparative case study methodology to investigate how anthropomorphism enhances emotional engagement and supports narrative development in animated films. The research is grounded in principles of visual and narrative analysis, drawing on established frameworks in animation theory, character design, and audience psychology. This methodological approach enables a multi-dimensional examination of how anthropomorphic characters function both technically and symbolically within animated narratives.

Three 3D animated films—*Kung Fu Panda* (2008), *Zootopia* (2016), and *Sing 2* (2021)—were purposefully selected for analysis. The selection was guided by the following criteria: (1) the films' central use of anthropomorphic characters, (2) variation in narrative genre, including action-comedy, social allegory, and musical drama, and (3) clear evidence of evolving animation technologies and visual storytelling strategies. This diversity supports a cross-comparative analysis that examines how anthropomorphism operates across different thematic, aesthetic, and technical contexts.

Each film was analyzed through a close reading of selected scenes, with attention to character animation, physical gestures, facial expressions, and visual framing. Specific frame sequences were studied to evaluate how species-specific traits were integrated with human-like emotional expression to generate audience empathy. The analysis of animation techniques—including timing, exaggeration, and motion dynamics—was informed by Williams' (2001) *The Animator's Survival Kit*, which provides foundational principles for expressive character animation. Emotional interpretation was further contextualized using theoretical perspectives from Dolins (2017), Mitchell, Thompson, and Miles (1997), and Wells (2009), who explore the psychological, cultural, and symbolic dimensions of anthropomorphic representation.

By combining visual and narrative analysis, this methodology highlights the expressive strategies animators use to humanize nonhuman characters. It also aims to reveal how these strategies contribute to emotional resonance and thematic clarity within each film. This approach provides insight into the broader role of anthropomorphism as a narrative and cultural device in contemporary animation.

3. Case studies

3.1 Kung Fu Panda (2008)

3.1.1 Genre and narrative function

Kung Fu Panda (2008), produced by DreamWorks Animation, merges martial arts action with slapstick comedy in a hero's journey narrative centered on Po, a panda who defies expectations to become a kung fu warrior. The anthropomorphic portrayal of Po is central to the film's effectiveness. His panda characteristics—physical bulk, clumsiness, and obsession with food—are heightened for comic effect, but also frame his internal struggles and insecurities in relatable terms. Audiences connect with Po not in spite of his animal nature, but because it functions as a metaphor for perceived inadequacy and latent potential.

Anthropomorphism enables the blending of the fantastical and the familiar. Po's animal identity makes his transformation all the more extraordinary, reinforcing the film's theme that greatness can emerge from humble origins. Throughout the film, Po experiences setbacks, ridicule, and self-doubt, but his persistence and emotional sincerity elevate the comedic material to a more profound emotional journey. The hero's journey is revitalized not only through genre conventions, but also through the expressiveness of anthropomorphic character design. His animal traits are never discarded; rather, they are recontextualized as sources of strength. This allows Kung Fu Panda to deliver humor and emotional weight simultaneously, engaging viewers across age groups and cultural backgrounds.

3.1.2 Technological and animation techniques

The film's animation style is a polished blend of traditional principles—such as squash and stretch, anticipation, and follow-through—with digital tools that enhance realism and expressive control. The animators emphasized Po's mass and motion inertia, often exaggerating his weight and momentum to accentuate both his comedic failures and moments of triumph. Training montages, especially his interactions with Master Shifu, illustrate the careful manipulation of timing and exaggeration to visualize progress through physical exertion.

Facial animation is particularly nuanced. As seen in Figure 1, Po's dejected expression while working at the noodle shop features slumped posture, slow blinking, and fidgeting hands, expressing resignation without dialogue. These gestures, achieved through intricate rigging and layered animation curves, give emotional dimension to Po's journey.



Figure 1. Kung Fu Panda (2008). Po catching noodle bowls thrown by his dad.

Later, Figure 2 captures Po's emotional release when Master Shifu accepts him as a student. Subtle trembling of the mouth, misty eyes, and a wavering voice deliver a powerful moment of validation. This level of expressive realism, supported by digital facial controls, distinguishes the film from its predecessors.

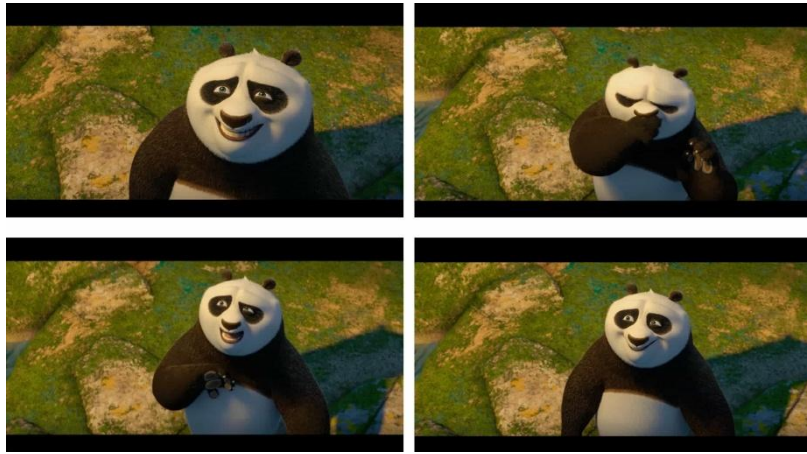


Figure 2. Kung Fu Panda (2008). Teary-eyed Po after Master Shifu agrees to teach him kung fu.

Backgrounds and lighting also contribute to narrative immersion. The lush, painterly environments shift color tones in harmony with character moods. Warm lighting during scenes of personal growth contrasts with cooler tones during conflict, reinforcing emotional beats.

3.1.3 Emotional themes and character engagement

Po's journey is anchored in themes of self-worth, transformation, and the pursuit of belonging. His anthropomorphic design not only provides visual humor but also deepens emotional engagement by presenting human struggles through an animal lens. As shown in Figure 3, Po's interaction with the "Urn of Whispering Warriors" reflects both awe and insecurity. The scene juxtaposes reverence with absurdity, highlighting Po's outsider status in a world of elite warriors.



Figure 3. Kung Fu Panda (2008). Po thinks he's talking to the Urn of Whispering Warriors.

In Figure 4, Po mimics Master Shifu with a noodle mustache and bowl ears. This scene, while humorous, underscores his longing for acceptance and recognition. His playfulness is grounded in emotional need, and the performance speaks volumes about his desire to connect.



Figure 4. Kung Fu Panda (2008). Po impersonates Master Shifu with noodle mustache and bowl ears.

As Po gains confidence, his animation shifts—movements become more fluid, expressions more self-assured. His final victory is not just physical but emotional, a triumph over internal doubt. By blending species-specific traits with deep emotional resonance, Kung Fu Panda exemplifies how anthropomorphism enriches narrative complexity.

3.2 Zootopia (2016)

3.2.1 Genre and narrative function

Zootopia (2016), from Walt Disney Animation Studios, uses the detective genre as a vehicle for social allegory. The film follows Judy Hopps, a rabbit who defies societal expectations by joining the police force in a predator-prey-divided city. Anthropomorphism serves a critical narrative role, transforming animal characteristics into metaphors for human identities. Species differences represent societal divisions such as race, class, and gender. Judy's determination to overcome stereotypes mirrors real-world struggles faced by marginalized individuals.

The film's genre conventions—investigation, partner dynamics, and red herrings—are enriched by the social context built through animal metaphor. Characters like Nick Wilde, a fox falsely stereotyped as untrustworthy, challenge viewer assumptions. Their development is not just about plot progression but moral growth, reflecting on how societal bias is internalized and overcome. This genre layering allows Zootopia to explore complex social issues in a format accessible to children yet resonant for adults.

3.2.2 Technological and animation techniques

Realism and stylization coexist in Zootopia's animation. The team studied real animals to inform anatomy, gait, and expressions, yet exaggerated key features to maintain emotional readability. Figure 5 illustrates Judy's rising frustration with Flash the sloth. Her pacing, narrowing eyes, and clenched fists contrast sharply with Flash's slow blinks and



Figure 5. Zootopia (2016). Judy impatient with Flash running the license plate.

drawn-out speech. The scene's humor lies in physical contrast and timing, heightened by precise animation tools.

The city itself is a marvel of environmental storytelling. Divided into climate-controlled zones, it reflects the diversity of species and cultural microcosms. From the icy Tundratown to desert Sahara Square, each biome is tailored to the animals' needs and habits. This attention to detail in world-building reinforces the metaphor of multicultural society.

3.2.3 Emotional themes and character engagement

Judy's arc embodies perseverance, ethical responsibility, and the emotional toll of systemic injustice. Figure 6 shows her forced optimism during a phone call home. Her microwaved carrot and somber music suggest loneliness and self-doubt, animated through drooped ears, hunched shoulders, and strained smiles.



Figure 6. Zootopia (2016). Judy after a lonely emotional honesty. Nick's recording of her apology, and his eventual forgiveness, illustrates the film's message that redemption is possible.

In Figure 7, Judy apologizes to Nick for unintentionally reinforcing stereotypes. Her trembling voice, watery eyes, and contrite posture convey deep remorse and a plea for redemption through empathy.



Figure 7. Zootopia (2016). Judy tries to convince Wilde to return after discovering the truth about the Night Howlers.

Figure 8 captures Judy's resignation. Her uniform, once a symbol of pride, becomes a source of disillusionment. Slow, hesitant steps and a downward gaze underscore the emotional weight of her failure.



Figure 8. Zootopia (2016). Judy resigns after Zootopia's rising fear of predators.

Through anthropomorphism, Zootopia invites viewers to question social norms and reflect on their own biases, making its characters both symbolic and emotionally grounded.

3.3 Sing 2 (2021)

3.3.1 Genre and narrative function

Sing 2 (2021), a musical drama by Illumination Entertainment, centers on Buster Moon's efforts to stage an ambitious theatrical production. The ensemble cast includes characters facing unique internal struggles—fear, loss, self-doubt—which they express through performance. Anthropomorphism allows each character's animal form to symbolize emotional archetypes. Buster's small frame represents big dreams. Rosita's pig identity reflects familial pressure and reawakening creativity. Johnny the gorilla embodies hidden talent constrained by fear.

The musical genre benefits greatly from anthropomorphism. Performances are infused with species-specific flair: elephants stomp with power, felines leap gracefully. These physical traits enhance the symbolic message of their songs. The narrative follows the underdog arc familiar in musical storytelling but gains emotional richness through its animated medium.

3.3.2 Technological and animation techniques

Dance and music drive the film's animation. Working with choreographer Sherrie Silver, animators adapted human movements to animal anatomy. In Figure 9, Buster's exuberance is conveyed through high-energy gestures and stage lighting that syncs with celebratory music. His eyes sparkle, limbs stretch wide, and his ears twitch—all small details that make the joy feel genuine.



Figure 10 shows Buster after harsh criticism. His soaked fur and limp posture reflect emotional

Figure 9. Sing 2 (2021). Buster Moon greets performers after a successful show.

defeat. Fine-tuned simulations, such as fur reacting to water and breath patterns reflecting anxiety, contribute to authenticity.



Figure 10. Sing 2 (2021). Buster upset after a critic deems his show unqualified.

Lighting and color palettes also change to reflect character mood—warm tones during hopeful moments, cold blue hues in rejection scenes.

3.3.3 Emotional themes and character engagement

Sing 2 explores how artistic performance is both personal and collective healing. In Figure 10, Buster's retreat into silence after criticism resonates with creators facing rejection. His humorous blow-dry recovery reflects resilience and provides tonal balance.

Figure 11 escalates the emotional stakes. Jimmy Crystal threatens Buster's life, symbolizing the dangers of toxic authority and the suppression of creative vision. Buster's trembling and desperation illustrate deep fear.

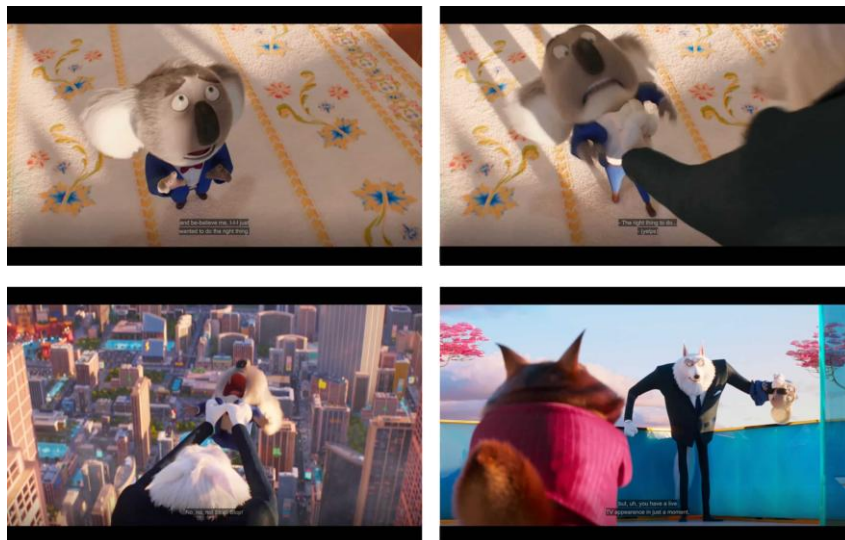


Figure 11. Sing 2 (2021). Jimmy Crystal threatens Buster by dangling him from a skyscraper.

Figure 12 closes the film with imagery of unity and renewal. Crystal's daughter joins Buster's troupe, rejecting her father's control. The bus ride signifies freedom and shared purpose. The characters' interactions—tail flicks, shared glances, playful jabs—reinforce emotional closure.



Figure 12. *Sing 2* (2021). Buster and the crew leave Redshore City united and hopeful.

Sing 2 demonstrates that anthropomorphic characters, when animated with expressive detail and narrative intent, can convey complex themes of failure, ambition, and belonging through the universal language of performance.

4. Conclusion and policy implications

Anthropomorphism in animation serves as a powerful narrative device that deepens emotional engagement by blending human relatability with species-specific traits. Through a comparative analysis of *Kung Fu Panda* (2008), *Zootopia* (2016), and *Sing 2* (2021), this paper has demonstrated how anthropomorphic storytelling operates across different genres—comedy, social allegory, and musical drama—to express themes of self-discovery, societal conflict, and creative ambition.

In *Kung Fu Panda*, exaggerated physicality and expressive facial animation support an underdog narrative that uses humor to humanize emotional growth. *Zootopia* applies anthropomorphism metaphorically, using animal stereotypes to explore complex social issues like bias and institutional discrimination, while maintaining character empathy through finely tuned animation. In contrast, *Sing 2* illustrates how technological advancements—such as realistic hair simulation, choreographed performance capture, and detailed facial rigging—enhance the emotional expressiveness of musical storytelling. Across all three films, anthropomorphism enables characters to transcend their species and become vessels for universal human emotions such as fear, hope, longing, and resilience.

This study contributes to animation scholarship by highlighting how anthropomorphic design, when paired with narrative and technical sophistication, shapes audience empathy and thematic clarity. While existing research often addresses anthropomorphism in isolated contexts, this paper emphasizes its adaptability across genres and its evolving emotional depth as animation technology progresses.

Future research may explore how anthropomorphism intersects with AI-generated animation, real-time performance capture, or non-Western animation traditions. As animated narratives continue to diversify in form and audience, the anthropomorphic figure remains a uniquely flexible and emotionally potent storytelling tool.

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