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Domestic Cat Ethology: Evaluating Social Media for Data Collection

by

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Submitted in partial fulfillment
of the requirements for the degree of
Master of Arts in Animal Behavior and Conservation, Hunter College
The City University of New York

2017

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7/5/2017

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Abstract

The purpose of this study was to determine whether videos of cats submitted to YouTube could be used to increase understanding of the behavior of domestic cats living in a home environment. Behaviors revealed through coding of 61 videos were examined by using an ethogram developed through use of two standardized ethograms of domestic cat behavior and a scale of cat stress levels. It was found that: a) positive tail postures, which include the most well-documented greeting behavior of cats, were 5.31 times more likely to occur in videos in the affiliation category than other categories of videos; b) paw, one of the most common cat play behaviors, occurred significantly more frequently than the other play behaviors; and c) vocalizations were 5.67 times less likely to occur in a video in the play category, confirming the finding that play tends to take place mostly in silence. These findings suggest that the behaviors observed in the YouTube videos were consistent with prior findings of cat behavior, and thus contain typical cat behavior. It appears that, depending on the research question, user submitted videos of cats are a promising data source for research into cat behavior. They are particularly of value in that they occur in the home, are typically made in the presence of the person(s) with whom the cat is acquainted, and, as such, provide information about the behavior of cats in the natural environment of the domestic cat.

Keywords: cat behavior, *felis silvestris catus*, YouTube, citizen science, video mining

Domestic Cat Ethology: Evaluating Social Media for Data Collection

Research into the behavior of the domestic cat (*Felis silvestris catus*) has been conducted primarily with animals in confinement (such as animal shelters, laboratories or catteries), environments that are difficult to compare with, and do not necessarily reflect, the behavior of pet cats (Trevejo, Yang & Lund, 2011). Moving pet cats to confinement can create persistent stress in the cat (e.g. Smith, Durman, Roy & Bradshaw, 1994; Kessler & Turner, 1997), and a clinical environment has been shown to induce stress above that of a home setting (Nibblett, Ketzis & Grigg, 2015). Such findings raise issues such as whether data collected under such conditions reflects the cat's usual behaviors. Even data collected in the cat's own home by persons unknown to the cat have been shown to affect the cat's behavior (Nott & Bradshaw, 1994).

Social media sites, such as YouTube, contain large archives of animal footage that lend themselves to video mining (Rault, Elmore, Biehl, Russell & Garner, 2013). YouTube has, in fact, already been used in the study of companion animal behavior to look at: tail chasing in dogs (Burn, 2011), breed differences and public perception of canine epilepsy (Preston, Shihab & Volk, 2013), the purpose of rollovers in play in dogs (Norman, Pellis, Barrett & Henzi, 2015), and dog training methods (Allen, 2015). YouTube videos of cats and dogs interacting with an iPad have been used to study predation, play and appetitive behaviors in cats and dogs (Nelson & Fijn, 2013). Although, as of 2014, more than 2,000,000 cat videos had been uploaded to YouTube and there were more views per video in the cat video category than in any other category (Myrick, 2015), this source of videos unobtrusively capturing the behavior of the domestic cat in their natural environment (the home) has yet to be utilized for research into cat behavior. The purpose of this research was to examine the use and value of user submitted

videos of domestic cats as a means of enhancing understanding of their behavior in their natural environment.

Citizen science, broadly defined as the public participation in scientific research, has been used in a number of disciplines, including evolution (Silvertown, et al., 2011), ecology (Sullivan et al., 2009), astronomy (Lintott et al., 2008) and conservation research (Cooper, Dickinson, Phillips & Bonney, 2007). As Nelson and Fijn (2013) point out, any individual who owns a camera and is willing to post their videos on the internet can be a citizen scientist, which opens the door to new research possibilities by increasing the probability of capturing a behavior through engaging the public, or using data already collected by the public. They further suggest that content submitted by the public (as opposed to professional videos) are particularly amendable to analysis as it is easier to determine if a situation is real since the videos do not contain professional post production editing. The additions of titles, subtitles and music are typically fine, as they do not affect the image and can be ignored (Nelson & Fijn, 2013).

One way to engage in citizen science is to use video mining, or extracting data from previously created videos for research purposes. Videos on social media provide a unique ethological opportunity to mine data which was previously difficult to collect, and at the same time create new scientific knowledge while reducing the use of animals. (Rault et al., 2013)

YouTube, by providing an abundance of videos of cats in their home settings, may provide a useful source of videos of cats without either removing the cat from their home, after which it can take between four days and two weeks for a cat's stress level to drop (Kessler & Turner, 1997), or introducing a novel person, environmental state or object into their home setting.

The primary focus of this study was to evaluate the range of behaviors present in the 100 most viewed cat videos on YouTube. Of these, 61 videos selected for quality and content appropriate for this analysis (see Video Selection section below) were coded for the behaviors listed in the ethograms below. Coding was guided by the development of a comprehensive ethogram consisting of three groups - play, positive affect and negative affect behaviors - compiled after an extensive literature review and through the use of two standardized ethograms of domestic cat behavior and a scale of cat stress levels. The purpose was to determine if the YouTube videos represent typical cat behavior, and, as such, could be of value as data sources for research on the behavior of the domestic cat.

Behavior of the Domestic Cat for Development of Comprehensive Ethograms

The domestic cat has been living in concert with humans for about the last 9,500 years (Vigne, Guilaine, Debue, Haye & Gerard, 2004). However, society has undergone many changes in the past 200 years. Cats are now not only the most popular pet in the United States (American Veterinary Medical Association, 2012; Bernstein, 2007), but they are expected to be companions to their owners (Stanton, Sullivan & Fazio, 2015). Although the cat's role in society has changed, their behavioral repertoire has remained largely consistent with the behavioral repertoires of other felines (Stanton et al., 2015). Domestication did result in one significant behavioral addition, a conspecific directed repertoire of communication used to maintain social groups, which is not found in other felids (Bradshaw & Cameron-Beaumont 2000). Despite this addition, the cat's behavioral repertoire largely does not change whether it is communicating with a conspecific or an interspecific, including humans (Stanton et al., 2015)

Play behaviors

Play, while often thought of as a developmentally necessary kitten behavior (Spinka, Newberry & Bekoff, 2001), often persists into adulthood (Houpt, 2011). Play behaviors contain within them elements of predation, fighting, exploration and investigation, and can look like fighting at times (Borchelt & Voith, 1987).

While conspecific play may look agonistic at times, certain signals have been identified which differentiate play from fighting: play is often silent (lacking vocalizations, specifically hiss and growl), bites are inhibited (do not break the skin) and the cats involved control their behavior to avoid injury (Borchelt & Voith, 1987). Borchelt and Voith (1987) conducted a survey of 887 cat owners, and determined that, not only is play differentiated from fighting, as stated above, but if a cat does go too far (i.e. gets too rough or serious aggression occurs) the other cat will often end the play bout. Cameron-Beaumont (1997) analyzed 2044 interactions within 3 group of cats (two groups of free-roaming feral cats and one group of confined laboratory cats) and observed only one co-occurrence of play behavior and a hiss or growl (the co-occurrence was of a hiss and paw).

Most play bouts start with a pounce and end with a play chase (Houpt, 2011; West, 1974). One of the most frequently observed behaviors is a paw, a movement in which a cat touches or attempts to touch a conspecific, person or object with its paw (Bradshaw & Cameron-Beaumont, 2000). West (1974) conducted a study of 28 cats (both in a laboratory and home setting) and found that 35% of the play bouts observed were started with a paw, a paw was often followed by another paw, and paw was found to occur up to 11 times per play bout. Cameron-Beaumont (1997), looking at 2044 interactions within three groups of cats, found paw to be the

most frequently occurring play behavior (of the play behaviors coded), occurring 257 times within the interactions.

Other typical play behaviors include: rear/vertical stance, stalking, staring, object play, play with conspecific/interspecific, and exploring an object with its mouth (Stanton et al., 2015; United Kingdom Cat Behaviour Working Group (UKCBWG), 1995).

Positive affect behaviors

Though not typically thought of as a social species, the cat can form affiliative relationships with its conspecifics (Crowell-Davis, Curtis & Knowles, 2004) and with humans (Wedl et al., 2010), and has developed a repertoire of behaviors suited for these purposes. The positive affect behaviors examined in this study include positive body postures, ear positions, tail postures, vocalizations and affiliative behaviors.

Typical body postures which indicate a calm relaxed state in the cat include being fully or half laid on its side or back (Feuerstein & Terkel, 2008; Stanton et al., 2015). A typical positive affect ear position is ears forward (Stanton et al., 2015).

The most common conspecific directed affiliative behaviors are allogrooming, allorubbing, and proximity behaviors (Crowell-Davis et al., 2004). Other common affiliative behaviors in the cat's repertoire are: kneading (Feuerstein & Terkel, 2008; Stanton et al., 2015); sniffing/touching noses (Bradshaw, Casey & Brown, 2012; Stanton et al., 2015) and slow blinking (Ellis, Thompson, Guijarro & Zulch, 2015; Slater et al., 2013).

A cat approaching with its tail up is perhaps the most well-documented greeting behavior (e.g. Cafazzo & Natoli, 2009; Feuerstein & Terkel, 2008), and signals the approaching cat's desire to interact amiably (Overall, 1997). Cafazzo and Natoli (2009), studying 10 male and female cats in an outdoor feral colony, observed the tail up posture in 23 dyads a total of 109

times, and determined that a tails up approach functioned as a common and often used greeting behavior. Cameron-Beaumont (1997), in a study conducted with two colonies (one feral outdoor and one indoor laboratory), found tail up to occur in 24% and 19% of the observation time. Cameron-Beaumont found tail up behaviors occurred less frequently during agonistic behaviors (0-9% co-occurrence with bite, 20-22% co-occurrence with a cuff and 4% co-occurrence with direct stare), and occurred in significantly higher percentages with affiliative categories of behavior. Cameron-Beaumont concluded that the tail up behavior was a social affiliative greeting behavior. The tail wrap is another common positive affect tail position (e.g. Ellis et al., 2015; Slater et al., 2013).

A cat's vocalizations can also indicate an affiliative intent. The chirp, meow and purr are all vocalizations associated with a friendly greeting or invitation to interact (e.g. Bradshaw, Casey & Brown, 2012; Leyhausen, 1979). Although cats can be social, and therefore make use of their affiliative repertoire of behaviors, there are still situations in which negative affect behaviors are necessary.

Negative affect behaviors

Although cats can be social, and in such cases make use of their affiliative repertoire of behaviors, there are still situations in which negative affect behaviors occur and appear to be a necessary part of the cat's social behavior. The negative affect behaviors examined in this study include negative body postures, eyes/ears/mouth positions, tail postures, vocalizations, agonistic actions and defensive actions.

Aggression is consistently cited as one of the most common reason cats are brought to behavior specialists (Amat et al., 2009; Bamberger & Houpt, 2006), and aggression among cats in a household is the most common feline aggression problem, estimated to occur in 10 – 50% of

cats (e.g. Amat et al., 2009; Borchelt & Voith, 1987; Heidenberger, 1997; Moesta & Crowell-Davis, 2011). Conspecific directed aggression is not the only form of aggression which has been identified, Ramos and Mills (2009) found aggression towards people in 49.5% of the cats investigated.

Despite these findings, fighting and threat displays between cats are rare, as the cat's primary mode of conflict resolution is avoidance or deference, not combat (Overall, 1997). Cats have significant offensive weapons (teeth and claws), and, as such, do not engage in a physical agonistic encounter unless it is unavoidable (Overall, 1997). Natoli and de Vito (1997), observing an urban feral colony of 34 cats for 315 hours over 112 days, saw only 64 agonistic encounters and concluded that fighting and threat displays are rare. Podberscek, Blackshaw & Beattie (1991), observing eight males in an enclosed laboratory colony for 24 hours spread over a one month period, found agonistic encounters to account for less than 1% of the total interaction time. In general, negative affect behaviors by cats are attempts to appear either larger or smaller to affect both the occurrence and outcome of an agonistic interaction (Bradshaw & Cameron-Beaumont, 2000).

A typical offensively aggressive cat will adopt a neck flex posture, piloerect its fur (Bradshaw & Cameron-Beaumont, 2000), have its tail bent up or swishing/twitching (Feuerstein & Terkel, 2008), and engage in a direct stare (Overall, 1997).

A typical defensively aggressive cat will attempt to make itself look bigger through piloerection and adopting the arched back posture (Bradshaw & Cameron-Beaumont, 2000), or rotating onto its back (Feuerstein & Terkel, 2008). A defensively aggressive cat may have a tail over posture (Overall, 1997; Stanton et al., 2015) or a tail quiver (Overall, 1997), with its ears

flat (Bradshaw & Cameron-Beaumont, 2000; Overall, 1997) while avoiding eye contact (Feuerstein & Terkel, 2008).

A purely defensive cat will attempt to make itself look smaller, possibly by adopting a crouched body position (Stanton et al., 2015); holding its ears back (Slater et al., 2013; Stanton et al., 2015); avoiding eye contact (Bradshaw, Casey & Brown, 2012); licking its lips or nose (Ellis et al., 2015; Slater et al., 2013); freezing (Bradshaw, Casey & Brown, 2012; Stanton et al., 2015); and/or attempting to remove itself from the scenario by fleeing, crouched walking or retreating (Feuerstein & Terkel, 2008).

Cats also have a rich repertoire of negative affect vocalizations that appear to function as a means to avoid conflict. The growl, shriek, hiss and spit are all either aggressive or defensive negative vocalizations which can occur with or without a physical altercation (e.g. Bradshaw, Casey & Brown, 2012).

Despite the cat's strong inclination to avoid conflict, an encounter can lead to a physical altercation. The quintessential attack behavior in cats is a bite, and the primary defensive action is a cuff (Leyhausen, 1979). A typical physical altercation may also include: an attack/lunge (Houpt, 2011), fighting (Houpt, 2011) and/or a pursuit chase (Bradshaw, Casey & Brown, 2012).

Cat Behaviors Observed and Described in the Comprehensive Ethograms.

Three common behavioral groups - play, positive affect and negative affect - make up the primary means of communication between the cat and the conspecifics and interspecifics with whom they have evolved to live. The following descriptions of the behavior falling within each of these groups were compiled from and after a review of the two existing standardized ethograms of domestic cat behavior (UKCBWG, 1995; Stanton et al., 2015) and the Cat-Stress-Score (Kessler & Turner, 1997).

The UKCBWG (1995) was made up of 12 ethologists from three British Universities (Cambridge, Oxford and Southampton) and the Waltham Centre for Pet Nutrition who were each (at the time of the compilation of the ethogram) actively involved in the study of cat behavior and ecology, and were actively observing cats (ranging from cats in confinement, to pet cats in a home environment, to feral cats). The behaviors within the ethogram were compiled with reference to 33 studies, articles and books focusing on play behavior, nursing behavior, solitary behavior, social behavior, vocalizations, maternal behavior, olfactory behavior, mating behavior, and hunting behavior.

Stanton et al. (2015) compiled their standardized ethogram from a review of 95 documents (83 peer-reviewed articles, 10 student theses and two ethograms published in books) containing behavioral definitions for felid species (both domestic and wild species). Eighty of the 91 empirical studies conducted were performed in captive settings. The 31 studies on domestic cat behavior investigated: social behavior (18), enrichment (4), temperament (3), other behavior (3), veterinary (2) and model (1). Included in the final ethogram were behaviors that occurred in at least 2-3 species groups and were found in over 10% of the studies, additional behaviors were included on an individual basis based upon relevance and adaptability for multiple species. The 164 behaviors included were given standard definitions and also included (to the extent possible) in behavioral categories based upon the general felid literature. Vocalizations were broken down by species, as there are many species specific vocalizations. Additionally, each behavior was sorted into one or more behavioral category, including affiliative and calm, and aggressive, agonistic and fear. (Stanton et al., 2015).

Kessler and Turner (1997) created a Cat-Stress-Score, based upon the Cat-Assessment-Score to determine the stress level of cats. The Cat-Stress-Score is based upon the posture and

behavioral elements of the cat, including the cats: body, belly, legs, tail, head, eyes, pupils, ears, whiskers, vocalizations and activity. The cat can receive a score ranging from 1 (fully relaxed) to seven (extremely stressed).

The specific behaviors included within the ethograms were determined based upon the three studies listed above, in conjunction with the current literature on typical cat behavior, as discussed in the section above (Behavior of Domestic Cats for Development of Comprehensive Ethograms). The definitions and terminology for the behaviors were compiled and modified based upon UKCBWG (1995) and Stanton et al. (2015). This information was used to create three ethograms, one for each of the groups of cat behavior. The affect of each behavior was determined by looking at Stanton et al. (2015) and Kessler and Turner (1997). Table 1 is an ethogram defining the play behaviors, Table 2 is an ethogram defining the positive affect behaviors, and Table 3 is an ethogram defining the negative affect behaviors.

Table 1

Ethogram of the Play Behaviors Coded in this Study.

Category	Behavior	Description	Coded For ^a
Play	Paw	Cat touches, or attempt to touch, modifier* with its forepaw(s). Claws are retracted.	Frequency
	Play Chase	Cat pursues modifier, usually at a run.	Duration
	Explore with Mouth	Cat licks, nibbles, picks up or carries object with its mouth.	Duration
	Object Play	Cat interacts with an object in an apparently playful manner. Interactions can include: tossing, side stepping around, rolling with, jumping around, pinning, raking throwing in the air or pulling object.	Duration
	Pounce	Cat leaps forward in the direction of or onto modifier.	Frequency
	Rear/Vertical Stance	Cat stands up on its hind legs with forelegs towards or against modifier.	Duration
	Stalk	Slow, controlled, forward movement in crouched position in the direction of a modifier. Head is kept low and eyes are focused on modifier.	Duration
	Stare	Cat gazes fixedly at modifier and is not easily distracted.	Duration
	Play with Conspecific/ Person	Cat physically engages with modifier^ in a "non-serious" manner (i.e. where there is no intention to harm).	Duration

Note. Modifier = conspecific, object or person. Modifier^ = conspecific or person

^a How duration and frequency behaviors were treated and coded is discussed in the "Coding the Videos" subsection of the Methods section below.

Table 2

Ethogram of the Positive Affect Behaviors Coded in this Study

Category	Behavior	Description	Coded For ^a
Positive Vocalizations	Chirp/chirrup	A short, high-pitched call described as similar to birds chirping (BRRRP sound).	Duration or Frequency ^b
	Chatter	Cat rhythmically classes the jaws, creating a smacking sound.	Duration or Frequency ^b
	Meow	Distinctive "meow" call typical of cats. Produced with the mouth opened and then gradually closed.	Duration or Frequency ^b
	Purr	Low, continuous rhythmic tone produced during both inhalation and exhalation while the mouth is closed creating a murmuring sound.	Duration or Frequency ^b
Affiliative Behavior	Allogroom	Cat licks modifier [^] for an uninterrupted period.	Duration
	Allorub	Cat rubs/pushes its bod/ head against modifier.	Frequency
	Knead	Cat pushes forepaws and/or hind paws into modifier in a rhythmic, kneading motion.	Duration
	Proximity Behaviors	Cat is at rest, lying, standing or sitting next to or touching modifier [^] .	Duration
	Slow Blink	Cat slowly closes and then opens eye lids.	Frequency
	Sniff	Cat smells modifier by inhaling air through nose or touches modifier with its nose.	Frequency
	Social Roll	Cat rolls onto back with its belly exposed and sheathed claws in the presence of modifier [^] .	Frequency
Positive Tail Positions	Tail Up	Tail is held upright, almost vertical.	Duration
	Tail Wrap	Tail is wrapped loosely around the cat or modifier [^] .	Duration
Positive Body Postures/Ear Positions	Lie on Side	Cat's body is on the ground in a horizontal position, on its side or back with legs extended.	Duration
	Lie Half on Side	Cat's body, but head, is on the ground in a horizontal position. Cat is lying half way on its side or back.	Duration
	Ears Forward	Cat hold its ears in a neutral relaxed manner at the front half of its head.	Duration

Note. Modifier = conspecific, object or person. Modifier[^] = conspecific or person

^a How duration and frequency behaviors were treated and coded is discussed in the "Coding the Videos" subsection of the Methods section below.

^b For certain vocalizations, if they occurred, but not for sufficient duration as described in the "Coding the Videos" subsection of the Methods section below, they were coded for frequency.

Table 3

Ethogram of the Negative Affect Behaviors Coded in this Study

Category	Behavior	Description	Coded For ^a
Negative Vocalizations	Growl	Low-pitched throaty, rumbling noise produced with the mouth closed.	Duration or Frequency ^b
	Hiss	A drawn out SSSS sounds made by rapid expulsion of air with the mouth open.	Frequency
	Yowl	Long, drawn-out vocalization of variable pitch, intensity and duration.	Duration or Frequency ^b
	Spit	Short, sudden, explosive exhalation resulting in a burst of noise, and possibly a violent movement.	Frequency
Agonistic Actions	Bite	Cat opens its mouth and either bites modifier [^] or snaps its mouth shut, as if biting the air.	Frequency
	Cuff	Cat raises forepaw to strike at modifier [^] . Cat may or may not strike at or make contact.	Frequency
	Attack/Fight	Cat springs at modifier [^] in attempt to engage in physical contact. May result in physical combat.	Duration
	Pursuit Chase	Cat runs in pursuit of modifier [^] .	Duration
Defensive Actions	Crouched Walk	Walking or crawling in Crouched body position (see below).	Duration
	Flee	Cat (attempts to) run away from modifier [^] .	Duration
	Retreat	Cat moves away from modifier [^] while continuing to watch it.	Duration
Negative Body Postures	Arched Back	Cat curves its back up sharply and stands rigidly. The typical "Halloween cat" posture.	Duration
	Crouch	Cat positions its body close to the ground, belly is (almost) touching the ground, all four legs are bent and paws are directly underneath the cat.	Duration
	Freeze	Cat is immobile with a tense body.	Duration
	Piloerection	Cat raises the hair on the nape of its neck, shoulders, back and/or tail so that the fur is standing erect.	Duration
	Rotate on Back	Cat rolls onto its back (entirely or only front part of the body on its back) with its belly exposed (entirely/partially), and paws in the air.	Duration
	Neck Flex	Downward flexion of the head. Usually with	Duration

		straight legs and elevated hindquarters.	
Negative Tail Position	Tail Over	Tail is bent directly over the body, in a concave U shape over the back.	Duration
	Tail Bent Up	The base of tail is bent up with the remainder of tail curving downward.	Duration
	Tail Quiver	Tail is raised vertically and vibrating. Often piloerect.	Duration
	Tail Swish/Twitch	Tail is moving (entirely or a portion) either forwards to backwards or side to side, violently and rapidly or abruptly (as a flick).	Duration
Negative Eyes/Ears/Mouth	Avoid Eye Contact	Cat avoids making eye contact with modifier [^] .	Duration
	Direct Stare	Cat stare fixedly at modifier [^] , and is not easily distracted.	Duration
	Ears Back	Ears are held at the rear of head with the open portion of ear facing backward or held flat, molded to the rear of the head.	Duration
	Ears Flat	Ears are swiveled downward & sideways (or rotated downward). Ears appear flat/almost flat across top of head.	Duration
	Lick Nose/Lips	Tongue flicks out of cat's mouth to touch the outside of its mouth, lips or nose quickly.	Frequency

Note. Modifier = conspecific, object or person. Modifier[^] = conspecific or person

^a How duration and frequency behaviors were treated and coded is discussed in the “Coding the Videos” subsection of the Methods section below.

^b For certain vocalizations, if they occurred, but not for sufficient duration as described in the “Coding the Videos” subsection of the Methods section below, they were coded for frequency.

In addition to comparisons between cat behaviors observed and those documented in the literature, the following hypotheses regarding cat behavior in the videos were examined: a) positive tail behaviors should occur more frequently in affiliation videos (described in Method section) than other videos; b) paw should occur more frequently than other play behaviors; c) fewer vocalizations should be present in play videos (described in Method section) than the other categories of videos; and d) agonistic actions should occur less frequently than other positive and negative affect behaviors across video categories.

Method

Video Selection

This study was conducted using the top 100 most viewed cat videos on YouTube. To identify these videos, the word "cat" was entered into the search bar of YouTube (after the browser history and cookies were cleared, and the computer was signed out of all Gmail and YouTube accounts). The results of the search were sorted by "View Count" (i.e. number of times each video had been viewed on YouTube between each videos individual date of upload and 6/3/15, the date the videos were collected). The videos were then reviewed to determine if they met inclusion criteria. Four hundred and thirteen videos were reviewed to identify the 100 videos utilized in this study (The Videos). A total of 313 videos were excluded. Information regarding the inclusion criteria and the videos excluded is set forth in Table 4. The name, URL, category of exclusion (if applicable) and reason for exclusion (if applicable) for all 413 videos can be found in Appendix A.

Table 4

Category, Number and Reason for Exclusion of the 313 Videos Not Included in this Study (of the 413 Reviewed).

Category of Exclusion	Number Excluded	Reasons for Exclusion
A) Did not feature a domestic cat	203	Video did not feature cats/featured photographs of cats (136), or featured primarily cartoon cat (67).
B) Physical Manipulation	4	The cat(s) featured was heavily manipulated or restrained.
C) Heavily edited or scripted	66	Video was: a compilation of other videos (39); a short film (14); an advertisement featuring cats (8); or contained obvious postproduction manipulation of images (5). Titles, subtitles, voiceovers and music were not criteria for exclusion.
D) Meme	11	Video was a meme or repetition of a previously included video
E) Interspecies	29	Video contained interactions between a cat and any species other than cats and humans.

Data Collection and Analysis

The following information was collected for each of The Videos: a) number of views each video had amassed (from the original upload date through 6/3/2015); b) the name of the video; c) the URL; and d) the category of the video, as described below. This information is available in Appendix B. Videos were sorted into one of four video categories, which are intentionally separate and apart from the three behavior groups utilized in the ethograms. The video categories are not based upon individual behaviors or behavior categories present in the videos, but rather on the general demeanor of the cat(s) within the videos. The four video categories are: Agonism, Affiliation, Play and Oddities. Videos were sorted based upon two factors: a) the title of the video (as given by the user who uploaded the video, taking into account

that any description within the title may not accurately reflect the demeanor or behavior of the cat(s) within the video), and b) a cursory review of the videos pre-coding looking generally at the behaviors present in the videos to determine the primary affect of the videos based upon the primary behaviors shown by the cat(s) in the video. Individual behaviors were intentionally not identified, counted or recorded in this cursory review. Instead, the general demeanor (agonistic, affiliative, play or odd) of the cat(s) throughout the video as a whole was identified (see Appendix B).

Sixty one videos, hereafter to be referred to as Coded Videos, were divided, as discussed above, into three of the four video categories: agonism (16 videos), affiliation (27 videos), and play (18 videos). The remaining 39 videos fell into the oddities category and were excluded from coding. The oddities category contains videos that, although they failed to meet the exclusion criteria, showed behaviors, by either the cats or the people, which were atypical or occurred in an atypical environment. Such videos were not coded as they did not meet the purpose of this study.

Additional information about the Coded Videos included: a) the location in which the video took place (house, yard of a house, outside, or shelter/veterinary clinic); b) whether multiple cats were present in the video; c) the duration of the video during which each cat was present, d) whether the cats' vocalizations were discernible, and e) whether there were human/cat interactions in the video. This additional information is available in Appendix B.

The duration of each of the Coded Videos represents the total time each cat was present in the video in seconds. If the cat left the screen for 1.5 seconds or more the time the cat was out of screen was not included in the duration. If a Coded Video featured more than one cat, the total time each cat was present in the video was also recorded.

Whether the vocalizations were discernible within each video was determined by an auditory and visual review. Videos in which the presence of vocalizations could be determined based exclusively on an auditory review were marked as “audible.” Vocalizations which were not audible (due to a lack of sound, or additional audio added to the video) were coded as “visually discernible” if the effect of the vocalization was apparent from the physical behavior of the cat (i.e. the movement of the mouth, teeth and body). If it could not be determined if vocalizations were present, or if vocalizations appeared to be present, but the affect could not be determined, this data was recorded as “unknown.” Of the 61 Coded Videos, 46 (75.4%) were audibly discernible, five (8.2%) were only visually discernible and 10 (16.4%) fell into the unknown category.

A person, when visually or audibly present in the video, was considered to interact with the cat if the cat engaged with the person audibly or physically for more than three seconds, during which time the cat clearly engaged with the person, not just generally vocalized or looked in the general direction of or in proximity to the person. The person was also considered to interact with the cat if the person physically engaged with the cat or audibly engaged with the cat and the cat responded to the audible engagement by altering its behavior (i.e. looking in the direction of or moving towards the person).

Coding the videos

The Videos were downloaded from YouTube using ClipGrab, a free multi-platform software used for downloading videos from the internet. The Coded Videos were then coded using GriffinVC, a free and open-source video program which can be used for continuous or frame-by-frame analysis (Singh & Ragir, 2017). The basic elements of GriffinVC are an

integrated video player, an uploaded list of behaviors (as laid out in the ethograms set forth in Tables 1 - 3), and a spread sheet for time-stamped observations designed to be exported to Excel.

The play behaviors, set forth in Table 1, were coded individually (i.e. if a paw behavior was observed it was coded as a paw). Negative and positive affect behaviors were coded by category (i.e. if a meow was observed it was coded as a positive vocalization, or if a bite was observed it was coded as an agonistic action).

As reflected in the ethograms, some behaviors were coded for frequency and some behaviors were coded for duration. For frequency behaviors, each occurrence of the behavior was coded (i.e. each time a behavior occurred it was recorded). For a duration behavior to be coded it had to occur for more than 1.5 seconds. For a duration behavior to be considered concluded there must be a duration of 1.5 seconds before the same behavior occurred again (i.e. a 1.5 second gap between the first and second meow). If the intervening period was shorter than 1.5 second then the behavior was coded as having continued during the interval. The duration of 1.5 seconds was utilized as it represented an ending and new beginning of the behavior, rather than just a pause, for example to take a breath.

The behaviors/behavior categories within each video were coded in two of three ways depending on whether they were a frequency or duration behavior. All of the behaviors/behavior categories (both duration and frequency) were coded as present or absent in the video (1/0 coding). If the behavior/behavior category was code for frequency, each occurrence of the behavior/behavior category was coded. If the behavior/behavioral category was coded for duration, the total duration of each behavior/behavior category was coded.

After the video was coded, the frequency (the average number of events per minute) and duration data (the proportion of the video in which the coded behavior occurred) was compiled

for each of the coded behaviors/behavior categories within each video. The average frequency and average proportional duration was then computed for each behavior/behavior category as a whole across the Coded Videos in which the behavior/behavior category occurred.

Results

The first step in determining whether cat videos on YouTube contain typical cat behavior, as represented in the ethogram, and thus are a viable data source for research, was to examine the results of coding the behaviors described in the ethogram and the presence of these behaviors in the Coded Videos.

All of the behaviors listed in the ethograms, which represent common domestic cat behaviors, were observed in the Coded Videos. Tables 5, 6 and 7 provide a breakdown of the presence, duration and frequency of the behaviors in the Coded Videos based upon the number of videos in which the behavior occurred at least once (Table 5), the mean duration of each of these behaviors (Table 6) and average number of events that occurred per minute for each behavior coded for frequency (Table 7). The behaviors are ranked from most to least in all three tables.

Table 5

The Number of Coded Videos in which the Behavior was Observed at least Once (1/0 coding), Listed from Most to Least Observed.

Behaviors in Order From Most to Least Observed	Percentage of 61 Coded Videos in which the Behavior was Observed	Number of videos with the Behavior Present
Positive Body/Ears	67.2%	41
Affiliative Behaviors	54.1%	33
Negative Eyes/Ears/ Mouth	42.6%	26
Positive Vocalizations*	39.2%	20
Paw	27.9%	17
Positive Tail	24.6%	15
Negative Tail	23%	14
Negative Vocalizations*	21.6%	11
Negative Body	19.7%	12
Agonistic Actions	16.4%	10
Pounce	11.5%	7
Stare	9.8%	6
Defensive Actions	9.8%	6
Object Play	8.2%	5
Explore with Mouth	6.6%	4
Play with Conspecific/ Person	4.9%	3
Rear/Vertical Stance	4.9% 3	3
Play Chase	3.3%	2
Stalk	3.3%	2

Table 6

Average Duration (Percentage of Video During which the Behavior occurs) of Each behavior (coded for duration) within the Coded Videos Containing the Behavior, Listed from Highest to Lowest Duration.

Behavior – from longest to shortest average proportional duration	Average Length of Behavior’s Duration over videos in which behavior was present
Positive Body/Ears	84%
Stare	79%
Negative Eyes/Ears/ Mouth	74%
Negative Body	73%
Stalk	71%
Play with Conspecific/ Person	51%
Affiliative Behaviors	50%
Positive Tail	50%
Rear/Vertical Stance	47%
Negative Tail	45%
Negative Vocalizations ^a	45%
Object Play	44%
Positive Vocalizations ^a	32%
Play Chase	28%
Agonistic Actions	17%
Explore with Mouth	15%
Defensive Actions	14%

Note: The average proportional duration per video was obtained by dividing the time the behavior was present by the video length averaged over all the videos in which each of the behaviors were observed.

^a Percentage based on number of videos with audible or visually discernible vocalizations, 51

Table 7

Average Number of Events that Occurred Per Minute for Each Behavior Coded for Frequency, Listed from Highest to Lowest Events Per Minute.

Behavior from highest to lowest average Events/Minute	Average Events/ Minute over videos in which behavior is present
Paw	18.19
Positive Vocalizations	8.81
Negative Vocalizations	3.66
Agonistic Actions	3.37
Pounce	3.10
Negative Eyes/Ears/ Mouth	2.09
Affiliative Behaviors	1.69

The degree to which YouTube videos reflect common cat behaviors observed in settings other than the home was evaluated here by comparing the observed behaviors with well-established findings from the literature on cat behavior. Four hypotheses were tested:

Overall, the results are consistent with the hypotheses: positive tail behaviors occur more frequently in affiliation videos than others; paw occurs significantly more frequently than other play behaviors; there are fewer vocalizations present in play videos than others; and agonistic actions occur less frequently (though not always significantly less frequently) than most other positive and negative affect behaviors. These results, taken together with the descriptive data, indicate that YouTube videos of cats contain typical cat behavior, and may be used for behavioral research, in appropriate circumstances and with the appropriate research question.

Hypothesis A: Positive Tail in Affiliation Videos

Positive tail behaviors should occur more frequently in affiliation videos than other videos, as the tail up approach is the one of the most well-documented greeting behavior (Cafazzo & Natoli, 2009; Feuerstein & Terkel, 2008).

To test this hypothesis, a one sided Chi-Square Test, using a significance level of .05, was run comparing the presence of positive tail behaviors in affiliation videos vs. other videos. There were a total of 27 affiliation videos: positive tail behaviors were present in 11 affiliation videos, and absent in 16 affiliation videos. There were a total of 34 videos in the other categories (agonism and play): positive tail behaviors were present in 4 other videos, and absent in 30 other videos. A significant association was found between the type of video (affiliation vs. other) and whether or not positive tail behaviors occurred, $\chi^2 (1) = 6.81, p = .009$.

An odds ratio was done looking at the odds of a positive tail behavior being present in an affiliation video (.69) as compared to the odds of a positive tail behavior being present in another (agonism and play) video (.13). Based on an odds ratio, the odds of positive tail behaviors being present in an affiliation video is 5.31 times higher than in another category of video.

Positive tail behaviors were coded in 15 videos, not one of which was an agonism video.

The greater frequency of occurrence (5.31 times more likely) of positive tail behaviors in affiliation videos, and the dearth of positive tail behaviors in agonism videos, is in line with prior research which states that a tail up position, one of the two positive tail behaviors coded in this study, is the cat's most common and well documented greeting behavior (Bradshaw, Casey & Brown, 2012).

Hypothesis B: Paw.

Paw should occur more frequently than other play behaviors, as paw is one of the most frequently observed play behaviors (West, 1974). Paw was coded in 17 of 18 play videos, at least double the number of videos in which the other play behaviors were coded. Pounce was present in 7 play videos and absent in 11. Stare was present in 6 play videos and absent in 12. Object play was present in 5 play videos and absent in 13. Explore with mouth was present in 4 play videos and absent in 14. Play with conspecific/person was present in 3 play videos and absent in 15. Rear/vertical stance was present in 3 play videos and absent in 15. Stalk was present in 2 play videos and absent in 16. Play chase was present in 2 play videos and absent in 16.

A Related-Sampled McNemar Test using a significance level of .01, was run comparing the number of Coded Videos in which paw occurred to the number of videos in which each other play behavior occurred. A significant difference was found between the occurrence of paw and: stare, $p = .003$; pounce, $p = .002$; play chase, $p < .001$; object play, $p < .001$; explore with mouth, $p < .001$; play with conspecific/person, $p < .001$; rear/vertical stance, $p < .001$; and stalk, $p < .001$.

These results are in line with prior research indicating that paw is one of the most frequently occurring play behaviors. Cameron-Beaumont (1997), looking at 2044 interactions within 3 groups of cats (two free-roaming feral cats and one confined laboratory cats), coded two play behaviors, paw and jostle play (play with conspecific), and observed paw to occur 257 times while jostle play did not occur once.

Hypothesis C: Vocalizations in Videos with Play Behaviors

Fewer vocalizations should be present in play videos than the other categories of videos, as play is largely silent, especially lacking negative vocalizations (Borchelt & Voith, 1987; Cameron-Beaumont, 1997).

To test the hypothesis that vocalizations occurred less frequently in videos with play behaviors than other videos, a Chi-Square Test using a significance level of .05 was run comparing the presence of vocalizations (positive and negative) in play videos to videos without play behaviors. There was a total of 18 play videos: 2 contained vocalizations (positive and/or negative) and 16 contained no vocalizations. There were a total of 43 other videos (agonistic and affiliative): vocalizations were present in 29 videos, and absent in 14 videos. A significant association between the type of video (play vs. other) and whether or not vocalizations occurred was found, $\chi^2(1) = 16.11, p < .001$.

An odds ratio was done comparing the odds of a vocalization (positive and/or negative) being present in a play video (.13) as compared to the odds of a vocalization being present in another video (2.07). Based on the odds ratio, the odds of vocalizations being present in a video that does not contain play behavior is 15.92 times higher than in a video with play behavior.

Looking specifically at negative vocalizations within the play videos: negative vocalizations were absent in 18 videos and present in none. Within the other videos (agonistic and affiliative): negative vocalizations were present in 11 videos and absent in 32. Using a one sided Fisher Exact Test with a significant level of .05 a significant association was found between the type of video (play vs. other) and whether or not negative vocalizations occurred, $p = .025$.

A Chi-Square Test, using a significant level of .05, was run comparing the presence of positive vocalizations in play videos to videos without play behaviors. Within the play videos positive vocalizations were present in 2 videos and absent in 16 videos. Within the other videos (agonism and affiliation), positive vocalizations were present in 18 videos and absent in 25. A

significant association between the type of video (play vs. other) and whether or not positive vocalizations were coded was found, $\chi^2 (1) = 5.44, p = .020$.

An odds ratio was done comparing the odds of positive vocalizations being present in a play video (.13) as compared to the odds of positive vocalizations being present in another video (.72). Based on the odds ratio, the odds of positive vocalizations being present in a video that does not contain play behavior is 5.54 times higher than in a video with play behaviors.

The lack of vocalizations, specifically negative vocalizations, within the play videos is consistent with prior research which indicates that negative vocalization and play behaviors are unlikely to co-occur (Borchelt & Voith, 1987; Cameron-Beaumont, 1997).

Hypothesis D: Agonistic Actions v. Other Behaviors

Agonistic actions should occur less frequently than other positive and negative affect behaviors across video categories, as fighting and threat displays are rare and the cat's primary mode of conflict resolution is avoidance or deference (Natoli & de Vito, 1991; Podberscek, et al., 1991).

To test the hypothesis that agonistic actions should occur less frequently than other positive and negative affect behaviors, a McNemar Test using a significance level of .01 was run comparing the presence of agonistic behaviors to each positive and negative affect behavior coded. Agonistic actions were coded as present in 10 videos, and absent in 51 videos. Positive body/ear behaviors were present in 41 videos, and absent in 20 videos. Affiliative behaviors were present in 33 videos, and absent in 28 videos. Negative eyes/ears/mouth postures were present in 26 videos, and absent in 35 videos. Positive vocalizations were present in 20 videos, and absent in 41 videos. Positive tail postures were present in 15 videos and absent in 46 videos. Negative tail postures were present in 14 videos, and absent in 47 videos. Negative body postures were

present in 12 videos, and absent in 49 videos. Negative vocalizations were present in 11 videos, and absent in 50 videos. Defensive actions were present in 6 videos, and absent in 55 videos.

A significant difference was found between agonistic actions (coded in 10 videos) and: positive body/ears ($p < .001$ coded in 41 videos), affiliative behaviors ($p < .001$, coded in 33 videos) and negative eyes, ears & mouth ($p = .001$, coded in 26 videos). There was no significant difference found between the presence of agonistic actions and: positive vocalizations ($p = .1$, coded in 20 videos), positive tail ($p = .424$, coded in 15 videos), negative tail ($p = .424$, coded in 14 videos), negative body ($p = .791$, coded in 12 videos), negative vocalizations ($p = 1.00$, coded in 11 videos), and defensive actions ($p = .125$, coded in 6 videos). This is in line with prior research indicating that fighting and threat displays are rare (Natoli & de Vito 1997; Podberscek et al., 1991).

Discussion

Positive Affect Behaviors

Cats have a large repertoire of positive affect behaviors. The behaviors within the positive body postures/ear positions category (laid on side, half laid on side, and ears forward), are each indicative of a calm and/or relaxed state (Stanton et al., 2015). Positive body postures/ear positions was ranked highest in occurrence (67.2%) and duration (84%) of all of the behaviors/behavior categories within the Coded Videos. The locations in which the Coded Videos were shot should play a role in the behavioral state of the cats, and 55 (90.2%) videos take place in a home setting (53 inside a house and two in the yard of a house). Taken together, these results indicate that YouTube videos of cats primarily occur in a home setting, and, in such a setting, the cats consistently exhibit behaviors which are indicative of a calm relaxed state.

This finding contrasts with behavioral research done with pet cats in confinement. Research done with cats in confinement has been found to create persistent stress (e.g. Smith, Durman, Roy & Bradshaw, 1994; Kessler & Turner, 1997); and research with cats in a clinical environment has also been shown to induce stress above that of a home setting (Nibblett et al., 2015). Kessler and Turner (1997) note that after removing a cat from its home it may take between four days and two weeks for a cat's stress level to drop to normal.

The promise of YouTube videos use for analysis of cat behavior was further supported by the finding that positive tail behaviors occurred significantly more frequently in affiliation than in other videos, and not once during an agonism video. In the current study, positive affect tail postures (of which tail up is one of two, and the more commonly occurring) were coded in 24.7% of the Coded Videos. This is consistent with Cameron-Beaumont's (1997) observations of tail up behaviors during 19-24% of observation time. Additionally, the lack of positive tail behaviors in agonism videos is consistent with Cameron-Beaumont's observation that tail up behaviors are found to co-occur less frequently with agonistic behaviors. As predicted in hypothesis A, positive tail behaviors were significantly more likely to occur in affiliation video than in other categories of video. These results are in line with prior research which indicates that the tail up posture is the most common and well documented greeting behavior (e.g. Cafazzo & Natoli, 2009; Feuerstein & Terkel, 2008), and that cats can form affiliative relationships, which are supported and reinforced by positive affect behaviors, with people (Wedl et al, 2010) and other cats (Crowell-Davis et al, 2004).

One possible avenue for future research would be to explore any differences between the presences of tail up postures in cats in a colony setting versus cats living together in a home setting. Another possible avenue for future research would be to explore the frequency of co-

occurrence of tail up behaviors and agonistic interactions in a home setting as compared to a colony setting. This could be accomplished by using prior research on cats in a colony setting, or compiling/soliciting videos of cats in a colony setting.

In summary, the cats featured in the Coded Videos, which overwhelmingly (90.2%) occurred in a home setting, were found to be in a calm relaxed state for the majority of the time (84%) of the majority of the Coded Videos (67.2%). As predicted in hypothesis A, positive tail behaviors (tail up and tail wrap) were significantly more likely to occur in affiliation video than in other categories of video, which is in line with prior research indicating that the tail up posture is the most common and well documented greeting behavior (e.g. Cafazzo & Natoli, 2009; Feuerstein & Terkel, 2008). Each of the positive affect behaviors set forth in the ethogram were observed in the Coded Videos, indicating that the positive affect behaviors found in the Coded Videos represent common, typical positive affect behavior, as set forth in the ethogram.

Play Behaviors

Within the Coded Videos containing play behaviors no obvious injuries or blood was observed, and only one of the 18 videos contained an agonistic actions (a cuff), after which the cats returned to playing. Had the behavior gone too far, or had serious aggression occurred, the play bout would likely have ended (Borchelt & Voith, 1987).

Paw, one of the most commonly observed play behaviors (Haupt, 2011; West, 1974), was expected (as predicted in hypothesis B) and found to be the most frequently occurring play behavior, and to have one of the highest events/minute frequencies. In this study, paw occurred significantly more frequently than the other play behaviors; paw was observed in 94.44% (17) of the play videos and occurred over twice as often as the second most frequently observed play

behavior (pounce). Paw also occurred with a significantly higher event frequency than all other event behaviors (over twice the event/minute rate of positive vocalizations, the second most common event behavior), and with a higher frequency than that observed in prior research.

One possible reason for the difference in the frequency of paw behaviors in this study is that West (1974) only looked at the prevalence of paw in social play. In this study both object and social play were examined. Additionally, in this study the cats were observed mostly in a home environment, while in the West study, one group was kept in a laboratory and a second group was allowed free indoor/outdoor access in a home environment. Possible areas of future research would be to: a) explore the differences between the cat's use of paw in play in a home setting vs. a colony or laboratory environment, and b) to explore the cat's use of paw in object vs. social play.

A major difference between play and fighting is that play is silent, it lacks vocalizations, particularly negative affect vocalizations (Borchelt & Voith, 1987). In this study, it was hypothesized that vocalizations, both positive and negative, would be significantly less likely to occur in videos containing play behaviors. Only two (11.1%) of the 18 play videos contained vocalizations. Vocalizations were found to be significantly less likely to occur in play than other categories of videos confirming the literature, once again providing evidence that YouTube videos contain typical cat behavior. When broken down by affect type, a significant difference was found between the presences of vocalizations (positive and negative) in play vs. other videos. Positive vocalizations were 5.67 times more likely to occur in videos other than play videos. Of the 20 videos with positive vocalizations, only two were play videos. No negative vocalizations occurred in play videos. These results are consistent with prior research

suggesting that play and fighting are distinct, and that negative vocalization and play behaviors are unlikely to co-occur (Borchelt & Voith, 1987; Cameron-Beaumont, 1997).

One area for future research could be to explore the presence of vocalizations, both positive and negative, in play in different settings – home, shelter/clinic and colony. Another possible area of future research could be to look at the co-occurrence, if any, of specific play behaviors and vocalizations (positive and/or negative). YouTube could be utilized to compile/solicit the videos of cats in each of these settings and engaging in each of the play behaviors to be explored.

In summary, the play behaviors found in the Coded Videos were in line with prior research. Only one play video contained an agonistic action and no negative vocalizations were observed in any play videos, which supports the idea that play is distinct from fighting (Borchelt & Voith, 1987). As predicted, paw was the most frequently occurring play behavior, and occurred at a higher event/minute rate than any other coded event behavior. Play videos were almost entirely silent, with only two videos containing positive vocalizations and no negative vocalizations found, which is consistent with prior research indicating that play is silent, particularly lacking agonistic vocalizations (Borchelt & Voith, 1987). Each of the play behaviors set forth in the ethogram were observed in the Coded Videos, indicating that the play behaviors found in the Coded Videos represent common, typical cat play behavior, as set forth in the ethogram.

Negative Affect Behaviors

The domestic cat has a large repertoire of negative affect behaviors, primarily focused on avoidance or deference, not combat (Overall, 1997). The negative affect behaviors coded in this study were a mix of offensive, defensive, avoidance and deference behaviors. Negative

eyes/ears/mouth, the only negative affect behavior to occur in over 25% of the videos (occurring in 42.6% (26) of the Coded Videos), contained: one offensive aggressive behavior (direct stare (Overall, 1997)), one primarily defensive aggressive behavior (ears flat (Overall, 1997)), two behaviors that can be either defensive/avoidant or defensive aggressive (avoiding eye contact (Feuerstein & Terkel, 2008) and lick lip/nose (Tabor, 2003)), and a purely defensive/avoidant behavior (ears back (Feuerstein & Terkel, 2008)). Negative eyes/ear/mouth is made up primarily (80%) by defensive aggressive or deferential/avoidant behaviors. As such, the prevalence of negative eyes/ears/mouth behaviors versus more offensively aggressive behavior categories is in line with the existing knowledge on cat behavior.

Cats have significant offensive weapons (teeth and nails), and thus do not resort to fighting unless it is unavoidable (Bradshaw, 2014). As such, this study hypothesized that agonistic actions would occur significantly less frequently than other negative and positive affect behaviors. As expected, agonistic actions did occur significantly less frequently than positive body postures/ear positions, affiliative behaviors and negative eyes/ears/mouth. Agonistic actions occurred less frequently (but not significantly so) than positive vocalizations, positive tail positions, negative tail positions, negative body postures and negative vocalizations.

Of the videos containing agonistic actions, 40% (4) involved conspecific directed aggression (two within a home setting and two outside). Of the fourteen Coded Videos containing multiple cats, 28.57% (4) contained conspecific directed aggression, which is in line with prior research which estimates that conspecific directed aggression occurs in between 10 – 50% of cats (Borchelt & Voith, 1987; Heidenberger, 1997).

In 15.38% (6) of the 39 videos containing interactions between a cat and a person there are agonistic actions present. These results are just shy of the estimates of people directed

aggression found in prior research (17- 49%) (Amat et al, 2009; Ramos & Mills, 2009).

However, both Amat et al. (2009) and Ramos & Mills (2009) defined aggression to include more behaviors than the agonistic action category in this study (Ramos & Mills looked at aggression as perceived by the owner, and Amat et al. looked at all human directed aggression presented at an animal behavior clinic). Based upon the more limited range of behaviors considered agonistic actions in this study, the finding that 15.38% of videos in which there are interactions between a cat and a person contain agonistic actions is consistent with prior research on human-directed aggression.

Agonistic actions, however, were only the second least frequent positive or negative affect behavior; defensive actions occurred the least frequently. The defensive actions category contains behaviors that usually occur at the end of a fight (fleeing) or when one cat, after engaging in or witnessing aggressive posturing, backs down to avoid a fight (crouched walk or retreat) (Bradshaw, 2014). Of the six videos containing defensive actions, only two were conspecific directed (both involving agonistic actions), two were object directed and two were in response to people placing cats into a bathtub.

Prior research indicates that cats are more likely to direct aggressive behavior at conspecifics than people (Borchelt & Voith, 1987). However, 60% of the agonistic action videos and 33.3% of the defensive action videos contain human directed behavior. This result could indicate that YouTube users are more interested in human directed agonistic actions (attack/fight, bite, cuff, and pursuit chase) than conspecific directed agonistic actions, but have no such preference with respect to defensive actions. This result could also indicate that human directed agonistic actions are not more common than conspecific directed agonistic actions, they are just more popular.

Another possibility is that agonistic actions are as or more likely to be human than conspecific directed, since human directed aggression is believed to be underreported by owners (Heath, 2002). As has been stated, cats only engage in agonistic actions when they are unavoidable, instead they engage in a series of behaviors (offensive, defensive, deferential and avoidant) to avoid a conflict (Bradshaw, 2014; Overall, 1997). This series of behaviors is effective because conspecifics understand the meaning of and respond appropriately to the behaviors displayed. However, people are not as knowledgeable of or successful at reading cat behavior. In fact, Nicastro and Owren (2003) found that people were capable of achieving only modest rates of accuracy in categorizing the affect (positive or negative) of cat meows, the most common vocalization utilized between cats and humans. This general lack of ability to accurately interpret cat behavior can be dangerous, both for the person and the cat. Here, this lack of ability may contribute to the higher frequency of human directed agonistic actions versus conspecific actions.

One area for future research could be to explore the differences between conspecific and human directed aggression in cats in a home setting, as reflected in YouTube videos as compared to prior research, which was largely conducted in a clinical setting. Another possible area for future research would be to explore the differences, if any, in aggression exhibited by cats in a home setting, as reflected in YouTube videos, and that reported in prior research, which largely was done in a clinical setting.

In summary, the only negative affect behavior to occur in over 25% of the Coded Videos, negative ears/eyes/mouth, contains largely defensive aggressive, deferential or avoidant behaviors (versus offensive aggressive behaviors). Further, agonistic actions are less likely to occur than all other positive or negative affect behaviors, except defensive action, which are

actions which would occur to avoid a fight after engaging in aggressive posturing or witnessing a fight or aggressive posturing. All of which is in line with prior research indicating that cats try to avoid fights, and only engage in fighting as a last resort (Bradshaw, 2014; Overall, 1997). Each of the negative affect behaviors set forth in the ethogram were observed in the Coded Videos, indicating that the negative affect behaviors found in the Coded Videos represent common, typical negative affect behavior, as set forth in the ethogram.

The purpose of this study and its hypotheses, was to evaluate the range of cat behaviors present in YouTube videos, and determine if YouTube videos contained typical cat behavior, as represented in the ethogram, such that the YouTube videos could be used as a source of data for research into cat behavior. As discussed above, the answer to this question is yes. Each of the behaviors set forth in the ethogram were observed in the Coded Videos. As predicted and as indicated by prior research: a) positive tail postures were 5.31 times more likely to occur in an affiliation videos than other videos; b) paw, the most common play behavior and the behavior with the highest event/minute frequency, occurred significantly more frequently than the other play behaviors; and c) vocalizations were 5.67 times more likely to occur in a video category other than play. Even the hypothesis which was not significant was still consistent with prior research: agonistic actions occurred less frequently than all other positive and negative affect behaviors except one (33.3% significantly more frequently and 55.6% not significantly). As a whole, the hypotheses were supported, as is the assertion that the Coded Videos contained normal cat behavior.

YouTube Videos for Cat Behavior Research

While the Coded Videos did contain normal cat behavior, the top 100 YouTube cat videos do not exclusively contain cat videos featuring typical cat behavior. In fact, 39 of the top

100 videos utilized in this study contained behaviors that were atypical in themselves, or normal behaviors occurring in an environment or circumstance atypical for the domestic cat. These 39 videos fell into one of the three general Oddities categories: a) cat fail (3), b) human draw (25) or c) rare behavior (11). Cat fail videos featured a cat attempting to engage in normal cat behavior and “failing” at it, for example: failed jumps and failed attempts to climb into an object. The human draw videos are videos in which the cat’s behavior, often atypical or occurring within an atypical context, appears to be a draw for YouTube users, for example: using a toilet, and people creating an atypical environment for a domestic cat (i.e. wrapping them like a present). Rare behaviors are those behaviors rarely seen in a domestic setting, for example: cats mating in a house and odd/extreme vocalizations. These 39 videos do not discount YouTube as a source of data for research. Instead these 39 videos illustrate two divergent options: a) they provide a rare opportunity to observe uncommon behaviors, and provide an impetus to study these behaviors under more controlled conditions; and b) they illuminate the necessity of proper inclusion criteria and the considerations which must be taken into account before YouTube videos are sourced for research into typical cat behavior.

While there are limitations and considerations which must be taken into account when sourcing YouTube videos for research into typical cat behavior, there are also benefits. The most frequently observed behaviors in this study, occurring in 67.2% of the Coded Videos with an average proportional duration of 84%, was positive body postures/ear positions. This result indicates that, by and large, the cats in the Coded Video were in a calm relaxed state in their natural (overwhelmingly (90.2%) home) setting. The majority of research into cat behavior using owned pet cats has been conducted by taking cats out of their homes and placing them in a stressful situation, either a clinic (Nibblett et al., 2015) or other confinement (e.g. Kessler &

Turner, 1997; Smith et al., 1994). By using YouTube videos of cats, we are able to observe the behavior of the cats in their natural setting, where, as shown by the Coded Videos, cats are largely in a calm relaxed state, without the added stress of introducing a novel person (i.e. the researcher).

Additionally, there are ethical benefits to using YouTube videos in that no cats need to be moved, disrupted or disturbed for research purposes. Studies done with publically submitted videos do not require the researcher to affect or utilize cats, and therefore there are no (or very few) ethical considerations or balances for the researcher to engage in.

However, YouTube videos, or any video mined content, are not appropriate for every situation. First, the external submission of videos does not allow for control over the quality or content of submitted videos. Second, there is no control over what happens outside of the screen or before the video begins, which may affect the behavior of the cat being videotaped. In addition to having no control, there is also no knowledge of what happened before the taping begins, or is happening off screen during the video. It is possible that relevant antecedents, actors and factors may not be captured in the video. Third, there is no way to know if the entire interaction between the cat(s) and conspecifics/interspecifics/objects is captured in the video. As discussed above, it appears that user submitted videos may not capture the beginning or end of the interactions. It is likely that people do not begin filming an interaction until they find it interesting, which would often preclude the beginning of the interaction, and they may finish recording when they no longer find the interaction of interest, which may not include the end of the interaction. Fourth, exactly what the cat is interacting with is not always captured in the video. For example, the video may not always capture the object with which the cat is playing.

Fifth, there is no control over, or even knowledge of, certain variables, such as the age, breed and sex of the cats.

In sum, there are considerations which must be taken into account when using video mining, such as uncontrolled variables (breed, age and sex) and unknown environmental effects (events off camera which impact an animal). However, the increased variability between subjects and/or environments leads to a higher external validity without the cost of between animal methodologies. While there are also concerns over the quality and content of user submitted videos, this is similar to the accepted selection bias in human studies (i.e. volunteers), and can be circumvented by adequate inclusion and exclusion criteria. This external submission issue is also similar to the limitations present in an ethological study, where only animals who are available/make themselves visible to the observer are used. An added benefit of video mining is that it is unlikely to be influenced by the hypothesis or research question, as the videos are compiled separately from the study. Ultimately, it is the research question which decides whether video mining is a suitable methodology. (Rault et al, 2013).

When soliciting user submitted cat videos for a specific research project, there are some considerations or recommendations which could enhance the value of the videos received. First, users should endeavor to capture the beginning and end of any scenario or interaction in which the cat is involved. To accomplish this the user should begin recording the cat before anything of interest occurs, and should continue recording after the scenario or interaction has concluded. Second, while recording the cat the users should keep the entire body of the cat in the screen without getting too close or cutting out too much of the surrounding environment. Third, depending on the purpose of the research, the user should try to capture the environment, objects, conspecifics and interspecifics (including people) with which the cat is interacting or to which

the cat is reacting. Fourth, again depending on the purpose of the research, the users should conduct themselves and/or set up the camera in a manner designed not to affect the behavior of the cat. The users also should not engage with, talk to, respond to or follow the cat too closely. Fifth, the users should not play any sounds (i.e. music or television) in the background of the video, and should not add any sound, music or voiceovers to the video. The users should submit the entire video, unedited, to the researchers.

In conclusion, the top 100 cat videos on YouTube contain both normal cat behavior as laid out in the ethograms and the hypotheses, and rare cat behavior (i.e. odd vocalizations and facial expressions). Much of what is known about the behavior and welfare states of pet cats has been determined by looking at the behavior of cats presented outside of their natural environment (the home) to unknown behaviorists (clinicians) for behavior problems (Casey & Bradshaw, 2007). Removing cats from their normal environment creates stress in the cats being studied, as does the presence of unknown people. YouTube, or other video mined content, is not appropriate for every situation, and the determination of whether video mining is a suitable methodology will be largely based upon the research question. However, if the research question indicates that video mining is a suitable methodology, YouTube videos of cats, which primarily feature cats in a home environment and avoids the ethical considerations of live animal use, subject to appropriate inclusion criteria, do contain typical cat behavior and may be an appropriate source of videos from which to mine.

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Appendix A

Information on Videos Reviewed to Identify the Videos

Key for Appendix A

Label	Category Title
A	Number of view the video had amassed as of 6/3/2014
B	Name of video, as listed on YouTube on 6/3/2014
C	YouTube URL for the video
D	Category of Exclusion, if applicable: A) Did not feature a domestic cat; B) Physical Manipulation; C) Heavily Edited/Scripted; D) Meme; E) Interspecies
E	Reason for Exclusion

A	B	C	D	E
121,284,067	Nyan Cat	https://www.youtube.com/watch?v=QH2-TGULwu4	A	Cartoon
88,133,208	Very Angry Cat	https://www.youtube.com/watch?v=1hPxGmTGarM		
82,085,140	The mean Kitty Song	https://www.youtube.com/watch?v=Qit3ALTelOo	C	Compilation
81,574,535	The Rej3ctz - Cat Daddy (Starring Chris Brown)	https://www.youtube.com/watch?v=JWZwLCKyR1Q	A	Does not feature a domestic cat
59,338,285	The Two Talking Cats	https://www.youtube.com/watch?v=z3U0udLH974		
57,819,007	Cat Mom Hugs Baby Kitten	https://www.youtube.com/watch?v=Vw4KVoEVcr0		
56,738,390	Funny Cats	https://www.youtube.com/watch?v=nTasT5h0LEg	C	Compilation
54,070,667	Cat Man Do - Simon's Cat	https://www.youtube.com/watch?v=w0ffwDYo00Q	A	Cartoon
53,365,563	Alex Mica - Dalinda (Official Video) by Cat Music	https://www.youtube.com/watch?v=ECIU3SQyUU4&spfreload=1	A	Does not feature a domestic cat
52,965,234	Super Cats: Episode 1 - The Funniest Cat Video!	https://www.youtube.com/watch?v=wf_IibT8HGk	C	Compilation

52,571,117	The Alphabet Letter C - "C" is for Cat	https://www.youtube.com/watch?v=dhkdCrkgmlw	A	Does not feature a domestic cat
46,009,610	だるまさんが転んにゃ - Stalking Cat	https://www.youtube.com/watch?v=fzzjgBAaWZw		
45,284,165	Funny Cats Compilation [Must See] Funny Cat Videos Ever Part 1	https://www.youtube.com/watch?v=tntOCGkgt98	C	Compilation
43,060,169	Faydee Ft Lazy J - Laugh Till You Cry (Official Video)	https://www.youtube.com/watch?v=eaTawbEn_d4	A	Does not feature a domestic cat
42,138,318	Denver Official Guilty Dog Video	https://www.youtube.com/watch?v=B8ISzf2pryI	A	Does not feature a domestic cat
41,908,346	Nyan Cat 10 hours (original)	https://www.youtube.com/watch?v=wZZ7oFKsKzY	A	Cartoon
41,528,804	TV Dinner - Simon's Cat	https://www.youtube.com/watch?v=s13dLaTIHSg	A	Cartoon
40,397,357	Charlie Schmidt's Keyboard Cat! - The Original	https://www.youtube.com/watch?v=J---aiyznGQ	B	Manipulation
40,224,202	Let Me In! - Simon's Cat	https://www.youtube.com/watch?v=4rb8aOzy9t4	A	Cartoon
37,847,048	Crazy Cat Love Water	https://www.youtube.com/watch?v=0iXHim3ToQ4		
37,738,217	Best Cat Vines - The Best Cat Vine Compilation (25 MINUTES)	https://www.youtube.com/watch?v=4tzhyfWHdLo&spfreload=10	C	Compilation
37,478,020	Cat Talking, Translation	https://www.youtube.com/watch?v=1JynBEX_kg8	D	Meme
35,088,536	The Finger Family Cat Family Nursery Rhyme Kids Animation Rhymes Song	https://www.youtube.com/watch?v=AYMOM9aR6eM	A	Cartoon
34,759,071	funny crazy cats))	https://www.youtube.com/watch?v=OAX7af8CZwQ	C	Compilation
32,616,291	Jet Pack Cat Ep 3 Talking Friends	https://www.youtube.com/watch?v=6FLJBM9-myY	A	Cartoon
32,486,790	Songify This - CAN'T HUG EVERY CAT (now on iTunes) -- a song about loving cats	https://www.youtube.com/watch?v=sP4NMojcFd4	A	Does not feature a domestic cat

31,991,471	Kitten Surprise! (How to Break Up a Cat Fight!) THE ORIGINAL!	https://www.youtube.com/watch?v=YLDdBGqJ2KYk		
30,893,147	Medal of Honor Cat	https://www.youtube.com/watch?v=PXX47L_3yE	C	Film
30,652,630	Fly Guy - Simon's Cat	https://www.youtube.com/watch?v=I1qHVVbYG8Y	A	Cartoon
29,600,942	eHarmony Video Bio	https://www.youtube.com/watch?v=mTTwcCVajAc	A	Does not feature a domestic cat
29,115,474	Probably the Funniest Cat Video You'll Ever See	https://www.youtube.com/watch?v=SUNmLuNdiL8	C	Compilation
29,042,700	Dramatic Cat	https://www.youtube.com/watch?v=plWnm7UpsXk		
29,036,422	Funny cats and babies playing together - Cute cat & baby compilation	https://www.youtube.com/watch?v=YDdueBf7MY	C	Compilation
27,725,113	Double Trouble - Simon's Cat	https://www.youtube.com/watch?v=3VLcLH97eRw	A	Cartoon
27,511,106	Cute cats feel guilty - Funny guilty cat compilation	https://www.youtube.com/watch?v=WIRxNSRA7Rg	C	Compilation
27,233,192	Mandinga - Zaleilah (Official Video)	https://www.youtube.com/watch?v=l3ukcxou2xI	A	Does not feature a domestic cat
26,327,139	Talking Cat	https://www.youtube.com/watch?v=7tRWRSfcDuQ		
24,998,574	Kate Upton - Cat Daddy	https://www.youtube.com/watch?v=MCUnWIs88CQ	A	Does not feature a domestic cat
24,765,390	KIDS REACT TO NYAN CAT	https://www.youtube.com/watch?v=3TQbDz6-4eM	A	Does not feature a domestic cat
24,245,779	My Cat Saved My Son	https://www.youtube.com/watch?v=C-Opm9b2WDk	E	Interspecies
23,946,004	The Box - Simon's Cat	https://www.youtube.com/watch?v=EKvNqe8cKU4	A	Cartoon
23,849,072	Awsome Cat	https://www.youtube.com/watch?v=qs3HBZC-AY8		
23,624,037	Funny cat compilation	https://www.youtube.com/watch?v=BmnyORo_slM	C	Compilation
23,145,661	Peppa Pig Park Playground Candy Cat Birthday Party Play-Doh Puddles Disney Car Toys	https://www.youtube.com/watch?v=NjAtFxfjuxfI	A	Does not feature a domestic cat

23,026,298	The OMG Cat	https://www.youtube.com/watch?v=C_S5cXbXe-4		
22,775,398	Delia feat Kaira - Pe aripi de vant (by KAZIBO)	https://www.youtube.com/watch?v=Dxf_p54Ncuc	A	Does not feature a domestic cat
22,491,162	rollyDigger CAT + rolyJunior CAT (item no: 421015 + 813001) from roly toys	https://www.youtube.com/watch?v=VHVPZy1YL-8	A	Does not feature a domestic cat
22,462,394	Santa Claws - Simon's Cat	https://www.youtube.com/watch?v=nn2h3_aH3vo	A	Cartoon
22,420,068	Rascal the Cat and the Toilet Rat	https://www.youtube.com/watch?v=7sl-QEtVBP4	E	Interspecies
22,298,638	Cat Fight Dog Win	https://www.youtube.com/watch?v=qB7pqt590hY	A	Does not feature a domestic cat
22,143,800	Dog saves cat from fox!	https://www.youtube.com/watch?v=bvilNcOyd30	A	Does not feature a domestic cat
22,071,345	Dear Kitten	https://www.youtube.com/watch?v=G4Sn91t1V4g	C	Advertisement
21,937,796	Barking cat gets caught! (ORIGINAL)	https://www.youtube.com/watch?v=aP3gzee1cps		
21,821,553	Cat- Friend vs Dog-Friend	https://www.youtube.com/watch?v=GbycvPwr1Wg	A	Does not feature a domestic cat
21,817,663	Elena feat. Glance - Mamma Mia (He's Italiano) Official Video by Cat Music	https://www.youtube.com/watch?v=iLZR7tihHbk	A	Does not feature a domestic cat
21,715,670	Funny Cats - Compilation	https://www.youtube.com/watch?v=6-SfjPGTu8s	C	Compilation
21,574,185	Cat Saves Child From Mom	https://www.youtube.com/watch?v=w4luuBbMUeY		
21,262,231	Ridiculous cats mating Part II (loud). The best cats mating!	https://www.youtube.com/watch?v=N7Ujd7RDg9g		
20,785,935	Sad Cat Diary	https://www.youtube.com/watch?v=PKffm2uI4dk	C	Film
20,678,450	Cats Playing Patty-cake, what are they saying...	https://www.youtube.com/watch?v=X3iFhLdWjqc		
20,572,692	Snow Business - Simon's Cat	https://www.youtube.com/watch?v=Tuf61OjvoPQ	A	Cartoon
20,567,592	Fed Up - Simon's Sister's Dog with the RSPCA	https://www.youtube.com/watch?v=NQCwHluBqFc	A	Cartoon

20,187,977	CAT FALLS OUT OF WINDOW PRANK	https://www.youtube.com/watch?v=GI6yvRZafLY	A	Does not feature a domestic cat
20,102,628	10 Cutest Cat Moments	https://www.youtube.com/watch?v=q1dpQKntj_w	C	Compilation
19,959,662	Pussy Cat Dolls - Sway	https://www.youtube.com/watch?v=aFPvKGL69kE	A	Does not feature a domestic cat
19,361,487	Randi feat. Uddi & Nadir - Prietena ta (Official Video) by Famous Production	https://www.youtube.com/watch?v=zQX2nWuWoH4	A	Does not feature a domestic cat
19,202,823	Hot Spot - Simon's Cat	https://www.youtube.com/watch?v=uOHvZjiDANg	A	Cartoon
18,941,845	Kittens at Lunch!!!	https://www.youtube.com/watch?v=wNv74rvkAw8	C	Compilation
18,799,092	Talking Cat	https://www.youtube.com/watch?v=XU2EtLHVoil		
18,783,479	Dubstep Cat	https://www.youtube.com/watch?v=aQeIDhz-_eg	B	Manipulation
18,259,869	The Original Grumpy Cat	https://www.youtube.com/watch?v=INscMGmhmX4		
18,134,818	Minecraft Xbox - Cat To The Future [100]	https://www.youtube.com/watch?v=IWUkHA3yA90	A	Does not feature a domestic cat
18,045,181	Кот ушёл / Cat gone	https://www.youtube.com/watch?v=WxGS-2M6_5I		
17,802,467	cat stevens Wild World	https://www.youtube.com/watch?v=DHXpnZi9Hzs	A	Does not feature a domestic cat
17,599,427	Cat 319D LN climbing onto rail car	https://www.youtube.com/watch?v=Q1CMSV81_ws	A	Does not feature a domestic cat
17,323,390	Cat Compilation - Top 2013 - Funny Moments With Cats	https://www.youtube.com/watch?v=Q1CMSV81_ws	C	Compilation
17,206,916	A is for Allah by Usuf Islam (Cat Stevens)	https://www.youtube.com/watch?v=-L-GOHa5-YQ	A	Does not feature a domestic cat
16,958,465	Catnap - Simon's Cat	https://www.youtube.com/watch?v=A3JC24p0YsA	A	Cartoon
16,918,266	Cat Chat - Simon's Cat	https://www.youtube.com/watch?v=JP1Pk62X7XQ	A	Cartoon
16,603,060	Cat Jump Fail with Music: Sail by AWOLNATION	https://www.youtube.com/watch?v=Awf45u6zrP0		

16,495,890	Girl Playing with her Cat	https://www.youtube.com/watch?v=tY4GILvbCJk		
16,419,712	Finger Family - Cat Family/Nursery Rhymes/HD Version	https://www.youtube.com/watch?v=UVY68vFiApA	A	Cartoon
16,324,459	Cat Soothing Crying Baby to Sleep	https://www.youtube.com/watch?v=PWXigjFm4TM		
16,288,908	Rej3ctz - Cat Daddy (starring Chris Brown)	https://www.youtube.com/watch?v=Dq_sGy4H_-k	A	Does not feature a domestic cat
16,212,097	Fat Cat in pot (attempt 2)	https://www.youtube.com/watch?v=EHwu-H_KtfU		
16,211,664	Puppy v. Cat	https://www.youtube.com/watch?v=7bcV-TL9mho	E	Interspecies
16,142,691	Shift feat. Marius Moga - Sus pe toc (Official Video) by Cat Music	https://www.youtube.com/watch?v=TcFFG5Mz2AY	A	Does not feature a domestic cat
16,142,045	What's UP - Taxi (Official Video)	https://www.youtube.com/watch?v=irDhEwgRRMs	A	Does not feature a domestic cat
16,041,977	Official Video: Cat Bath Freak Out - Tigger the cat says 'NO!' to bath	https://www.youtube.com/watch?v=PM5BCjNswd0		
15,801,170	Delia - Dale (Official Video)	https://www.youtube.com/watch?v=mC2ZmMEBrw8	A	Does not feature a domestic cat
15,722,933	AOA - 사뿐사뿐(Like a Cat) Music Video	https://www.youtube.com/watch?v=qEYOyZVWlzs	A	Does not feature a domestic cat
15,489,283	Nyan Nya Orange (Nyan Cat SPOOF)	https://www.youtube.com/watch?v=0XrRwruU8DE	A	Cartoon
15,433,286	My Cat Speaks When He is Awoken	https://www.youtube.com/watch?v=TJ5UJv9A4jE		
15,428,026	Puss In Boots - "The Cat Haz Swagger"	https://www.youtube.com/watch?v=8JsbSolUF5c	C	Advertisement
15,382,530	The most patient docile cat ever!	https://www.youtube.com/watch?v=C-UKbDMfnuI		
15,246,609	What's Up feat. Andra - K la Meteo (Official Video) by Cat Music	https://www.youtube.com/watch?v=iD3n1J4STLo	A	Does not feature a domestic cat
15,118,747	Epic Funny Cats / Cute Cat Compilation - 60 minutes!! [HD][HQ]	https://www.youtube.com/watch?v=ZBAGEeOms-8	C	Compilation

15,107,464	Sticky Tape - Simon's Cat	https://www.youtube.com/watch?v=tV3SWjrt2rE	A	Cartoon
14,737,114	Delia - Wuella Wuella (Official Video) by Cat Music	https://www.youtube.com/watch?v=NmcYskrNquU	A	Does not feature a domestic cat
14,724,111	Tara - Missing you (Official Video) by Cat Music	https://www.youtube.com/watch?v=VHVPZy1YL-8	A	Does not feature a domestic cat
14,673,611	Elena feat. JJ - Pana dimineata (Official Video) by Cat Music	https://www.youtube.com/watch?v=DYv_buNPKxo	A	Does not feature a domestic cat
14,660,228	Cat & Mouse -Simon's Cat	https://www.youtube.com/watch?v=BWIPZvwcX8	A	Cartoon
14,622,900	Toilet Trained Cat Doing Number 2	https://www.youtube.com/watch?v=_ug7WEUxH68		
14,248,846	mama cat comes to rescue her little kitten	https://www.youtube.com/watch?v=S5-D0f6nHSQ		
14,189,133	Cats Compilation	https://www.youtube.com/watch?v=xEhaVhta7sI	C	Compilation
14,103,549	Hidden Treasure - Simon's Cat	https://www.youtube.com/watch?v=HYID0KXujAk	A	Cartoon
13,928,192	Cat Fight	https://www.youtube.com/watch?v=-CezNIRYYGY		
13,711,439	Lunch Break - Simon's Cat	https://www.youtube.com/watch?v=vv0OUdQNVM0	A	Cartoon
13,315,096	Hop It - Simon's Cat	https://www.youtube.com/watch?v=AYdDRTRaWr8	A	Cartoon
13,275,865	5 & 6 Year Old Operating Cat 303 Excavator and Bobcat	https://www.youtube.com/watch?v=RTOzrkC-21M	A	Does not feature a domestic cat
13,126,543	The Lost Cat	https://www.youtube.com/watch?v=1BzmOgluDKY	A	Cartoon
13,014,972	Crazy Cat Attacks Dog	https://www.youtube.com/watch?v=7VNBxXKPR7I	E	Interspecies
13,011,994	Shift feat. Andra - Avioane de hartie (Official Video)	https://www.youtube.com/watch?v=b8LGHhgHd8o	A	Does not feature a domestic cat
12,997,950	B.U.G. Mafia - Cat Poti Tu De Tare (feat. Bodo) (Videoclip HD)	https://www.youtube.com/watch?v=ZhL2-hWfE-k	A	Does not feature a domestic cat
12,874,143	Nala the Laughing Cat (original)	https://www.youtube.com/watch?v=zA32ikd9B34	C	Film

12,868,542	Alien Cat Dance HOME	https://www.youtube.com/watch?v=GH3remmIEug	A	Cartoon
12,693,089	My cat Tiggy talking / speaking saying hello	https://www.youtube.com/watch?v=eV71mpbv1-g		
12,649,135	Sweet Tired Cat [-.-] - Fluffy Persian Kitten -	https://www.youtube.com/watch?v=2GWPOPSXGYI		
12,637,121	MALDITO GATO ESTRESANTE Cat Mario - JuegaGerman	https://www.youtube.com/watch?v=iZsvyA_afVU	A	Does not feature a domestic cat
12,534,824	Rolla Sparks feat. Oanu Radu - Fara glas (Official Video)	https://www.youtube.com/watch?v=UmOL235u7_M	A	Does not feature a domestic cat
12,526,999	I'm a Stupid Cat!	https://www.youtube.com/watch?v=qpl5mOAXN14	C	Compilation
12,426,958	Delia feat. Uddi - Ipotecat (Official Video)	https://www.youtube.com/watch?v=C_u0N_qYh5g	A	Does not feature a domestic cat
12,279,220	cat I'm a kitty cat	https://www.youtube.com/watch?v=QuPwwGEeSLo	C	Compilation
12,260,489	Epic cat videos! Cute, funny and scary kitten all in one!	https://www.youtube.com/watch?v=rUL0M__g1k4	C	Compilation
12,186,482	Cat on trampoline funny	https://www.youtube.com/watch?v=KFt5Zz5Mwlo&spfreload=1		
12,050,580	Andreea Banica feat. Dony - Samba (Official Video) by Cat Music	https://www.youtube.com/watch?v=uv8nGq-XMQM	A	Does not feature a domestic cat
12,032,163	Funny Cats and Kittens Meowing Compilation 2014 [HD]	https://www.youtube.com/watch?v=DXUAYRRkI6k	C	Compilation
12,032,138	Cat misses dog after being apart for 10 days	https://www.youtube.com/watch?v=HvXMVDOhgJ4	E	Interspecies
12,028,144	DJ Project feat. Giulia - Nu (Official Video)	https://www.youtube.com/watch?v=EDZqaB4qXIc	A	Does not feature a domestic cat
11,985,882	Suitcase - Simon's Cat	https://www.youtube.com/watch?v=_dm_2G-rIOs	A	Cartoon
11,877,654	Feed Me - Simon's Cat	https://www.youtube.com/watch?v=Te4wx4jtiEA	A	Cartoon
11,766,100	Heaven - Sunshine (Official Video) by Cat Music	https://www.youtube.com/watch?v=ud7-JOD8818	A	Does not feature a

				domestic cat
11,692,299	Bubamara - Goran Bregovic	https://www.youtube.com/watch?v=Qg44qKSbsdQ	A	Does not feature a domestic cat
11,584,050	SpongeBob - Cat Daddy	https://www.youtube.com/watch?v=nIZgEi_A2Rw	A	Does not feature a domestic cat
11,514,878	FUNNY CAT VIDEOS PART 4	https://www.youtube.com/watch?v=TVz6zbCmvPg	C	Compilation
11,511,425	Kid Trax CAT Bulldozer - Kids Tractor (Unboxing and Riding)!	https://www.youtube.com/watch?v=onKMRALsqd4	A	Does not feature a domestic cat
11,469,703	Elena feat. Glance - Ecou (Official Single)	https://www.youtube.com/watch?v=DqedmXPIHoQ	A	Does not feature a domestic cat
11,398,708	Cat who likes to watch the toilet flush	https://www.youtube.com/watch?v=tpcTkV1tKDs		
11,370,379	Talking Cat Turf Wars	https://www.youtube.com/watch?v=k7UhaeWFX8I	D	Meme
11,272,406	Dj Sava & Raluka feat. Connect-R -Aer (Official Video)	https://www.youtube.com/watch?v=h5kfF6HNoLY	A	Does not feature a domestic cat
11,242,182	Cute cat thinks it's a dog	https://www.youtube.com/watch?v=8ZuCT4PmurY		
11,183,113	Sleep Talking Cat	https://www.youtube.com/watch?v=QT2NOQOP4t8	C	Edited
11,124,581	Our Funny Cat: "Why Won't He Wake Up to Play with Me?"	https://www.youtube.com/watch?v=n_-HKkEXkGY		
11,004,496	Cat vs. Dog	https://www.youtube.com/watch?v=L6QhIecMjZs	E	Interspecies
10,963,484	Happy Dogs & Cats in Australia - Pharrell Williams "HAPPY" song	https://www.youtube.com/watch?v=DePFiF-nNoE	C	Compilation
10,945,073	My Cat Peeing in the Toilet!	https://www.youtube.com/watch?v=I1edDfzluXE		
10,863,449	Pet Cat Saves Boy for Two Vicious GATORS - Cat vs. Gator (original)	https://www.youtube.com/watch?v=5sAF8gMN9c0	E	Interspecies
10,851,727	NONONONO Cat	https://www.youtube.com/watch?v=oKI-tD0L18A		

10,813,602	How to Wrap a Cat for Christmas	https://www.youtube.com/watch?v=jm3dm5J5r0A		
10,806,345	Cat Terrorized by Popcorn	https://www.youtube.com/watch?v=PnJo7d-xBjY		
10,766,212	Tongue Tied - Simon's Cat	https://www.youtube.com/watch?v=4Z6YUGGlwtA	A	Cartoon
10,761,295	Dog, Cat, Rat	https://www.youtube.com/watch?v=D85yrIgA4Nk	E	Interspecies
10,741,847	Cute cat loves baby - from funny and cute cats and babies collection	https://www.youtube.com/watch?v=tFz1jK6sGIU		
10,728,360	[Cat sitting relaxed / 夕暮れの お座り猫ちゃん] Cat+1 Channel	https://www.youtube.com/watch?v=FxMOOyQI99g		
10,617,998	Cat v. Printer - The Translation	https://www.youtube.com/watch?v=CSK1D3bZhRs	D	Meme
10,562,172	Andra feat Marius Moga - Atata timp cat ma iubesta (Lyric Video)	https://www.youtube.com/watch?v=TSFVdAgrPa4	A	Does not feature a domestic cat
10,510,994	Cat Wearing a Shark Costume Clean the Kitchen on a Roomba. Shark Week. #SharkCat cleaning Kitchen	https://www.youtube.com/watch?v=tLt5rBfNucc		
10,450,113	Tom and Jerry Fraidy Cat Scare	https://www.youtube.com/watch?v=8BcodZ27hqM	A	Cartoon
10,430,350	Let it go frozen Funny Cat Song - Libre soy Frozen en Ingles. Suelto	https://www.youtube.com/watch?v=hG3kHOVx18g	A	Cartoon
10,429,057	Iggy investigates an ipad	https://www.youtube.com/watch?v=Q9NP-AeKX40		
10,408,061	ELDERS REACT TO NYAN CAT	https://www.youtube.com/watch?v=Dqm4dQv4F9w	A	Does not feature a domestic cat
10,347,287	Cat that likes water	https://www.youtube.com/watch?v=A1QL_7hrIEI		
10,276,054	Smitten - Simon's Cat (A Valentine's Special)	https://www.youtube.com/watch?v=aE_gN8fA2xE	A	Cartoon
10,258,284	Assassin's Kittens Unity	https://www.youtube.com/watch?v=jnk15Wf6xMU	C	Film
10,208,537	Crow and Kitten are Friends	https://www.youtube.com/watch?v=1JiJzqXxgxo	E	Interspecies

10,130,672	Screen Grab - Simon's Cat	https://www.youtube.com/watch?v=LpHpm_b0vRY	A	Cartoon
10,121,272	How German Sounds Compared To Other Languages CopyCatChannel	https://www.youtube.com/watch?v=Dzz6lUsF19g	A	Does not feature a domestic cat
10,105,163	Fowl Play - Simon's Cat	https://www.youtube.com/watch?v=YB90NjT51gg	A	Cartoon
10,098,018	Icecapade - Simon's Cat	https://www.youtube.com/watch?v=rOyZojbYUEA	A	Cartoon
10,094,398	Jenga Cat	https://www.youtube.com/watch?v=CaSpFPrWyxU		
10,061,232	Sparta giving birth to 6 kittens	https://www.youtube.com/watch?v=fgfUJ8kz7DA	A	Does not feature a domestic cat
10,015,280	Sunrise Inc - Nina (Official Single) by Cat Music	https://www.youtube.com/watch?v=LAPkObedsrE	A	Does not feature a domestic cat
9,951,873	Barbie Potty Trainin' Blissa Pet Cat Play Doh Barbie Dolls Toys Review by Disney Car Toy Club	https://www.youtube.com/watch?v=Y4fur_12EEc	A	Does not feature a domestic cat
9,935,351	Smokey Cat Eye	https://www.youtube.com/watch?v=cWIjfdJVsHU	A	Does not feature a domestic cat
9,931,162	Talking cat in sink	https://www.youtube.com/watch?v=OztGJhiBQTo		
9,923,201	8 signs your cat is actually a dog	https://www.youtube.com/watch?v=19jaOSNibkU	A	Cartoon
9,883,807	Scary Legs - Simon's Cat (A Halloween Special)	https://www.youtube.com/watch?v=G5FUH3eoizc	A	Cartoon
9,872,920	Mirror - Simon's Cat	https://www.youtube.com/watch?v=HqtSQfaR2Z4	A	Cartoon
9,817,014	Earth Objects Test: Cat HOME	https://www.youtube.com/watch?v=ExZ0i04pSeY		
9,805,714	Human Cat Perch	https://www.youtube.com/watch?v=jQZtk-fCWQ4	C	Compilation
9,770,108	Cats just don't want to bathe - Funny cat bathing compilation	https://www.youtube.com/watch?v=cbP2N1BQdYc	C	Compilation
9,730,169	Top 10 Best Cat Videos of All Time!	https://www.youtube.com/watch?v=l9EYkdfPs2w	A	Cartoon
9,719,531	Beyond the Fence - Simon's Cat UK TV Advert			

9,697,506	Waffles the Terrible - Funny cat Fails Epic Jump	https://www.youtube.com/watch?v=5d7aruKYkKs		
9,682,338	Shelf Life - Simon's Cat	https://www.youtube.com/watch?v=3PtFwlKfvHI	A	Cartoon
9,594,584	OMG Bieber v. OMG Cat	https://www.youtube.com/watch?v=y1XpaSyNXWM	C	Compilation
9,549,153	Crazy Time - Simon's Cat	https://www.youtube.com/watch?v=l5ODwR6FPRQ	A	Cartoon
9,533,742	Cat Welcomes Home Soldier (Awesome)	https://www.youtube.com/watch?v=Cx14ohE6nHs		
9,497,814	Ugly Kid Joe - Cats In The Cradle	https://www.youtube.com/watch?v=B32yjbCSVpU	A	Does not feature a domestic cat
9,491,719	Un motan cat un pisi cu versuri	https://www.youtube.com/watch?v=vAmkrHljn4c	A	Cartoon
9,486,135	JO - Soapte (Official Video)	https://www.youtube.com/watch?v=NKnqIX0pS8o	A	Does not feature a domestic cat
9,436,552	Cat Stevens "Wild World"	https://www.youtube.com/watch?v=0k6mQyu2GxM	A	Does not feature a domestic cat
9,386,771	Cat Daddy Winner	https://www.youtube.com/watch?v=w63YDsefthc	A	Does not feature a domestic cat
9,339,538	Cat singing with Jade on Victorious	https://www.youtube.com/watch?v=0k6mQyu2GxM	A	Does not feature a domestic cat
9,226,211	Best funny and cute cat videos compilation 2014	https://www.youtube.com/watch?v=p2H5YVfZVFw	C	Compilation
9,216,118	Cat Sees Owner After 6 Month Leave	https://www.youtube.com/watch?v=n1bo98838hs	C	Film
9,211,999	Feli - Cine te crezi? (Official Video)	https://www.youtube.com/watch?v=Il_7IC15d9c	A	Does not feature a domestic cat
9,201,501	Delia feat. Speak - A lu' Mamaia (Official Video) by Cat Music	https://www.youtube.com/watch?v=VyR5paVVxEA	A	Does not feature a domestic cat
9,182,190	Rat loves Cat	https://www.youtube.com/watch?v=7ikm3o5hDks	E	Interspecies
8,990,629	Nora The Piano Cat: The Sequel - Better than the original!	https://www.youtube.com/watch?v=v0zgQAp7EYw		

8,906,285	Cat Playing "I Spy"	https://www.youtube.com/watch?v=7ltcWcwnPfY		
8,854,314	A Cat's Guide to Taking Care of Your Human	https://www.youtube.com/watch?v=UJPUaZZOss	C	Film
8,840,458	Minecraft Xbox - Kitty Cat [145]	https://www.youtube.com/watch?v=4Yve2F_-t7s	A	Does not feature a domestic cat
8,807,694	Pat the Cat	https://www.youtube.com/watch?v=8fwXeBCMrT4		
8,774,417	FUNNY CAT VIDEOS PART 3	https://www.youtube.com/watch?v=nzNf5VQub_k	C	Compilation
8,707,308	Cat Stevens - Peace Train (live)	https://www.youtube.com/watch?v=7sjSHazjrWg	A	Does not feature a domestic cat
8,687,538	Killer Cat Scratch - Monsters Inside me	https://www.youtube.com/watch?v=NNq6dKguwNU	A	Does not feature a domestic cat
8,667,911	Andreea Banica - Acelasi iubit (Official Video)	https://www.youtube.com/watch?v=PoeEGBwAots	A	Does not feature a domestic cat
8,619,412	Cat Stevens - Lady D'Arbanville	https://www.youtube.com/watch?v=vjfi3uSN8DQ	A	Does not feature a domestic cat
8,595,152	Bengal Cat talking to her kitten - Original	https://www.youtube.com/watch?v=fd5S_wpOCNE		
8,584,914	Senile Talking Cat (The Original)	https://www.youtube.com/watch?v=jbEXr9-5UjI		
8,580,497	The flying ninja day (Atia the cat)	https://www.youtube.com/watch?v=5_0mntQQ3K4	C	Edited
8,509,573	3 Sud Est - Liberi (Official Video)	https://www.youtube.com/watch?v=5Fxv4MeH988	A	Does not feature a domestic cat
8,473,687	Nyan Cat - Smooth Jazz Cover	https://www.youtube.com/watch?v=AaEmCFiNqP0	A	Cartoon
8,462,519	Cat Soup	https://www.youtube.com/watch?v=EZjfZLTbnvY	C	Film
8,418,239	!!SQUIRREL ADOPTED BY CAT LEARNS TO PURR!!	https://www.youtube.com/watch?v=fHT1nAX46dM	E	Interspecies
8,389,043	Freshpet Holiday Feast - 13 Dogs and 1 Cat Eating with Human Hands	https://www.youtube.com/watch?v=vhg7Xm4FXAY	C	Advertisement
8,383,654	Cat in shark costume chases a duck while riding a	https://www.youtube.com/watch?v=Of2HU3LGdbo	E	Interspecies

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8,368,916	cat stevens	https://www.youtube.com/watch?v=Jek6iP6AuAQ	A	Does not feature a domestic cat
8,307,465	Cat Pushes another Cat Down the Stairs *Original	https://www.youtube.com/watch?v=V3GJycgu-cs		
8,266,477	Minecraft Xbox - Cat and Mice [183]	https://www.youtube.com/watch?v=pnE9lzPyXMI	A	Does not feature a domestic cat
8,254,658	Keyboard Cat REINCARNATED!	https://www.youtube.com/watch?v=xSE9Qk9wkig	B	Manipulation
8,228,935	The Kitty Cat Dance	https://www.youtube.com/watch?v=SaA_cs4WZHM	C	Film
8,228,258	Cat v. Snake	https://www.youtube.com/watch?v=uUf4zcyj43vQ	E	Interspecies
8,221,708	Fetch - Simon's Cat	https://www.youtube.com/watch?v=FatA6Pyw_D8	A	Cartoon
8,202,563	David DeeJay feat. P Jolie & Nonis - Perfect 2 (Official Video)	https://www.youtube.com/watch?v=KsYTJDM6ups	A	Does not feature a domestic cat
8,188,124	Ultimate Cat Tease	https://www.youtube.com/watch?v=MkQwJOLfr1k		
8,166,868	An Eagle Visits my cat	https://www.youtube.com/watch?v=EdJqzVQEgIQ	E	Interspecies
8,110,435	Cat Adopts Baby Rabbit	https://www.youtube.com/watch?v=04RZrf3-Mgo	E	Interspecies
8,096,011	MOST FRUTRATING GAME EVER! - Cat Mario (Syobon Action)	https://www.youtube.com/watch?v=0NecGquJIMU	A	Does not feature a domestic cat
8,095,509	Cat Using Toilet & Toilet Paper	https://www.youtube.com/watch?v=zQbHS4YJOMc		
8,084,426	Voltaj - Pic (Official Video)	https://www.youtube.com/watch?v=qTB6rxLpDSs	A	Does not feature a domestic cat
8,035,999	Al Stewart - Year of the Cat	https://www.youtube.com/watch?v=cqZc7ZQURMs	A	Does not feature a domestic cat
7,966,730	A Beautiful Relationship - Savannah Cat MAGIC and Andreas Stucki	https://www.youtube.com/watch?v=zuiKbnA3w0Q		
7,938,526	Ludacris - Party Girls (Explicit) ft. Wiz Khalifa, Jeremih, Cashmere Cat	https://www.youtube.com/watch?v=wj6PIx5Dm9Y	A	Does not feature a domestic cat

7,914,676	Cleopatra Stratan - Ghita (Official Video)	https://www.youtube.com/watch?v=OY1vv7hQQCg	A	Does not feature a domestic cat
7,912,932	怒らない猫 ~ Baby bite cat's tail ~	https://www.youtube.com/watch?v=SYLj372c-zM		
7,854,844	Cravendale - Cats with Thumbs #CatsWithThumbs	https://www.youtube.com/watch?v=h6CcxJQq1x8	C	Advertisement
7,837,633	Cat and owl playing - Fum & Gebra - Perfect friendship!	https://www.youtube.com/watch?v=Iqmba7npY8g	E	Interspecies
7,837,607	An eagle, a fox and my cat all getting along fine on my porch	https://www.youtube.com/watch?v=NSEd6O0bBFs	E	Interspecies
7,830,598	Cat plays dead to avoid going for a walk	https://www.youtube.com/watch?v=5sy1MDHZ27M		
7,800,495	Toilet Cat	https://www.youtube.com/watch?v=eg2eLEUncug		
7,799,582	Cat and Mouse - The Red Jumpsuit Apparatus	https://www.youtube.com/watch?v=7eLQRYldFos	A	Does not feature a domestic cat
7,799,299	My barn owl and cat	https://www.youtube.com/watch?v=pZ4ffqXg6RA	E	Interspecies
7,789,107	Copy Cat	https://www.youtube.com/watch?v=a_MqiGb0Qzk	E	Interspecies
7,782,239	Oana Radu & Dr. Mako feat. Eli - Tu (Official Video)	https://www.youtube.com/watch?v=pVPEZX_RbyI	A	Does not feature a domestic cat
7,769,493	Minecraft Xbox - Kitty Cat Condo [155]	https://www.youtube.com/watch?v=Yia2z8S_CIg	A	Does not feature a domestic cat
7,766,192	Cat playing with a bird, really very cool	https://www.youtube.com/watch?v=QFyI1cjsuGU	E	Interspecies
7,765,730	DUBSTEP CAT - Ray William Johnson Video	https://www.youtube.com/watch?v=O_MuX_ybSoU	C	Edited
7,746,860	Кошка просит прощения / Ржу не могу / Cat tries to apologize	https://www.youtube.com/watch?v=yNS7zzIzX-E		
7,722,971	Cat singing Happy Birthday Song	https://www.youtube.com/watch?v=m78l28tcIE0	C	Film
7,621,138	Real Cat Fight (Watch With Sound)	https://www.youtube.com/watch?v=vEvvRfuVk30		
7,597,554	Springtime - Simon's Cat	https://www.youtube.com/watch?v=ITZiZcHfj8s	A	Cartoon

7,586,668	Ask Jupiter - Talking Cat Answers Your Questions	https://www.youtube.com/watch?v=-qPGHn4iHKk		
7,581,369	Nick Kamerera & Alinka - Get A Life (Mama Yette) by Cat Music	https://www.youtube.com/watch?v=sVZ3mu_-y34	A	Does not feature a domestic cat
7,563,908	Hot Water - Simon's Cat	https://www.youtube.com/watch?v=ApN73TUVMEU	A	Cartoon
7,553,094	CRBL feat. Adda - Petre (Official Video)	https://www.youtube.com/watch?v=1Q-pi_0j5Wk	A	Does not feature a domestic cat
7,518,063	Cat (Remi GAILLARD)	https://www.youtube.com/watch?v=NSEd6O0bBFs	A	Does not feature a domestic cat
7,512,270	Tom Cat : Singing HAPPY BIRTHDAY	https://www.youtube.com/watch?v=S-Sttf6szIk	A	Cartoon
7,466,886	Cat Walking on two legs 2	https://www.youtube.com/watch?v=6qnf9nx706w		
7,465,972	3 - COBRA CAT - Ray William Johnson video	https://www.youtube.com/watch?v=SSC7upkbv4k	A	Does not feature a domestic cat
7,448,030	Nyan Cat (Alex S. Dubstep Remix)	https://www.youtube.com/watch?v=BeGjTiUqw8U	A	Cartoon
7,411,325	Cat Compilation - All☆Star Cats	https://www.youtube.com/watch?v=8yC2ICS_8OM	C	Compilation
7,382,669	Crazy Cat Attacking Spuds Dog	https://www.youtube.com/watch?v=OVGzwwj1A4QI	E	Interspecies
7,370,475	Dj Sava feat. Misha - Tenerife (Official Video)	https://www.youtube.com/watch?v=_vzH8dNYxfg	A	Does not feature a domestic cat
7,360,141	Mamasita - Fat Frumos (Official Single)	https://www.youtube.com/watch?v=5ZS_6s_Fuv0	A	Does not feature a domestic cat
7,332,269	Nut Again - Simon's Cat	https://www.youtube.com/watch?v=h4E-uiaIxnC	A	Cartoon
7,307,456	NYAN FART (Nyan Cat Spoof)	https://www.youtube.com/watch?v=y5Cu5kn2dZw	A	Cartoon
7,300,474	Fat Cat Mat	https://www.youtube.com/watch?v=rIv8mVF0WT0	A	Cartoon
7,276,656	Skittle Touch: Cat	https://www.youtube.com/watch?v=eDlaJlb1ezg	C	Advertisement
7,250,317	Scared Cats The Best Funny Cat Videos Compilation [25	https://www.youtube.com/watch?v=1Ohps964BC0	C	Compilation

	MINUTES] 2014 Part I HD			
7,244,305	CAT FIGHT!	https://www.youtube.com/watch?v=Nfb1xZFT8Mw	A	Does not feature a domestic cat
7,221,376	The Rej3ctz - Cat Daddy lyrics	https://www.youtube.com/watch?v=VjojI3e7dWM	A	Does not feature a domestic cat
7,191,570	Cat and Dolphins playing together	https://www.youtube.com/watch?v=rynvwVe21Y	E	Interspecies
7,187,588	Rooster and cat #1	https://www.youtube.com/watch?v=efTj6UYzv4	E	Interspecies
7,182,810	Funny Cat Fails	https://www.youtube.com/watch?v=ganAki3VRrs	C	Compilation
7,168,852	Halo Kitty Cat Dance	https://www.youtube.com/watch?v=uK_LAWm4vR4	A	Cartoon
7,141,167	Cat Stevens - The First Cut Is The Deepest	https://www.youtube.com/watch?v=aBccr-aLu4I	A	Does not feature a domestic cat
7,123,774	The Wheels on the Bus - Pete the Cat	https://www.youtube.com/watch?v=-0icbqvmehs	A	Cartoon
7,118,833	[Mexican Nyan Cat <3]	https://www.youtube.com/watch?v=T1QyDhLj5hU	A	Cartoon
7,077,674	Mom Cat talking to her Kittens. 20 Min BONUS Video	https://www.youtube.com/watch?v=mmf0KAHWlnk	D	Meme
7,076,913	cat from hell	https://www.youtube.com/watch?v=AmDDp-cCo24	D	Meme
7,036,849	Cat Bloopers	https://www.youtube.com/watch?v=o_MVaCvgBC4	C	Compilation
7,030,135	Cat's In The Cradle	https://www.youtube.com/watch?v=7OqwKfgLaeA	A	Does not feature a domestic cat
7,026,843	Demon cat-talks funny	https://www.youtube.com/watch?v=qj21q1mYmxw		
6,986,094	JORGE feat. Pavel Stratan - Geamantan (Official Video)	https://www.youtube.com/watch?v=T4HWxTj4duc	A	Does not feature a domestic cat
6,963,133	Standing Cat	https://www.youtube.com/watch?v=MVV_HXtEbLo		
6,951,896	"Cats Love Babies Compilation" CFS	https://www.youtube.com/watch?v=9LnTjz3hItk	C	Compilation

6,949,882	GIGGS - Look What the Cat Dragged In OFFICIAL VIDEO	https://www.youtube.com/watch?v=oIUL10qOeR8	A	Does not feature a domestic cat
6,945,526	Cats arguing! The best cat video you'll ever see!!	https://www.youtube.com/watch?v=6QNoDzojkkw		
6,930,111	Supercats: Episode 2 - Moar Hilarious Cat Videos!	https://www.youtube.com/watch?v=tRAMO0_6g-M	C	Compilation
6,903,316	Mandinga - Papi Chulo (Official Video)	https://www.youtube.com/watch?v=MUFTN8ctXT0	A	Does not feature a domestic cat
6,899,993	Cat plays dead after a finger shot!!!	https://www.youtube.com/watch?v=TpBq1MIwCM4		
6,889,559	Talking Kitty Cat 7.5 - Sylvester's Catnip Overdose	https://www.youtube.com/watch?v=sXMmqsqNJXA		
6,871,707	Nyan Cat falls in love!!	https://www.youtube.com/watch?v=EADziqTgT0s	A	Cartoon
6,837,127	Ready, Steady, Slow! - Simon's Cat	https://www.youtube.com/watch?v=OQwD0QCbxa	A	Cartoon
6,834,849	Talking cat Theo greeting his "Papa"	https://www.youtube.com/watch?v=RCfstWh7OV8		
6,833,239	Simons Cat (real)	https://www.youtube.com/watch?v=6Gknp-8ltmE	C	Edited
6,832,501	An Engineer's Guide to Cats	https://www.youtube.com/watch?v=mHXBL6bzAR4	C	Film
6,824,216	J. Yolo - Te pup, Pa Pa! (Official Video)	https://www.youtube.com/watch?v=CvPdgdD5LA8	A	Does not feature a domestic cat
6,821,458	Too funny dog thought cat was dead!	https://www.youtube.com/watch?v=xY672bb9qc4	E	Interspecies
6,788,808	Carla's Dreams feat. Delia - Cum ne noi (Official Video)	https://www.youtube.com/watch?v=D8-g8CpXdO8	A	Does not feature a domestic cat
6,785,759	Liviu Hodor feat. Mona - Sweet Love (Official Video)	https://www.youtube.com/watch?v=vgDJDHpENnI	A	Does not feature a domestic cat
6,785,522	Detective Mittens: The Crime Solving Cat	https://www.youtube.com/watch?v=tVx2uCcDXX0	A	Cartoon
6,731,818	Fat Cat	https://www.youtube.com/watch?v=6eLIMc4khe0	C	Edited

6,722,289	Cat Betrayed His Girlfriend! Sex! Heat! Rage! Foul language! (ORIGINAL ENGLISH CAPTIONS)	https://www.youtube.com/watch?v=ih6W19KTIZo	D	Meme
6,707,919	テルミンを演奏するネコ cat plays with a teremin	https://www.youtube.com/watch?v=0ONJfp95yoE		
6,704,034	Celia - Trag aer in piept (Official Video)	https://www.youtube.com/watch?v=X4aEnz7zPlo	A	Does not feature a domestic cat
6,670,025	AOA - 사뿐사뿐(Like a Cat) 안무영상(Dance Practice) Full ver	https://www.youtube.com/watch?v=srK7Vj5p9Tg	A	Does not feature a domestic cat
6,647,622	Andrea Banica - Sexy (Official Single)	https://www.youtube.com/watch?v=AFbse2OX7TI	A	Does not feature a domestic cat
6,640,484	The killer tortoise	https://www.youtube.com/watch?v=U10gfCyeiyM	E	Interspecies
6,639,071	Animal Thug Life Compilation	https://www.youtube.com/watch?v=uFX0JdLQ2M4	C	Compilation
6,632,428	Kittens on a Slide	https://www.youtube.com/watch?v=gppbrYIcR80		
6,624,057	Ludacris - Party Girls (Audio) (Explicit) ft. Wiz Khalifa, Jeremih, Cashmere Cat	https://www.youtube.com/watch?v=m_BcMJ3iuS4	A	Does not feature a domestic cat
6,576,351	3- DEADLY CAT!! - Gabriel Iglesias Video	https://www.youtube.com/watch?v=xZBddLCd1nY	A	Does not feature a domestic cat
6,559,911	Sea of Love by Cat Power	https://www.youtube.com/watch?v=CbMeAOTPJzM	A	Does not feature a domestic cat
6,548,872	Stalking Cat 2	https://www.youtube.com/watch?v=MEmEN8PFsgI		
6,518,100	Roomba Cat swats Dog pit bull Sharky. Max-Arthur on iRobot Roomba Vacuum. Cat vs Dog. HelensPets.com	https://www.youtube.com/watch?v=vf9wHkkNGUU	E	Interspecies
6,487,362	Christmas Presence (Part 1) - Simon's Cat	https://www.youtube.com/watch?v=abPLDLV8O4s	A	Cartoon
6,447,051	Kitty Corliss "Grinding the Crack"	https://www.youtube.com/watch?v=Veg63B8ofnQ	D	Meme

6,424,312	Mr. Cat	https://www.youtube.com/watch?v=rmuj7KJV-2w	A	Cartoon
6,370,554	My Weird Cat talking to a Moth	https://www.youtube.com/watch?v=WYxDM1BQoOw		
6,369,088	Dancing Cat Compilation	https://www.youtube.com/watch?v=wXQUhX89vtQ	C	Compilation
6,335,587	Crazy talking cat	https://www.youtube.com/watch?v=7UgVbEmBLPc		
6,302,049	Window Pain - Simon's Cat	https://www.youtube.com/watch?v=XrivBjlv6Mw	A	Cartoon
6,298,419	Minecraft Xbox - Caring Cat [149]	https://www.youtube.com/watch?v=JhaEUdt4noY	A	Does not feature a domestic cat
6,291,788	Kids React to Grumpy Cat	https://www.youtube.com/watch?v=dIQTNhZyWGE	A	Does not feature a domestic cat
6,291,684	Primus - Tommy the Cat	https://www.youtube.com/watch?v=r4OhIU-PmB8	A	Does not feature a domestic cat
6,282,415	Ray William Johnson - FLYING CAT =3	https://www.youtube.com/watch?v=ZL0EbmTmFbg	A	Does not feature a domestic cat
6,277,304	How to deactivate a cat	https://www.youtube.com/watch?v=T9TmmF79Rw0		
6,260,224	Elena feat. Glance - Ecou (Official Single)	https://www.youtube.com/watch?v=DqedmXPIHoQ	A	Does not feature a domestic cat
6,243,887	MORE RAGE THAN EVER! - Cat Mario (3)	https://www.youtube.com/watch?v=dh843ygbzaU	A	Does not feature a domestic cat
6,232,740	CAT POOP PRANK - PRANKVSPRANK	https://www.youtube.com/watch?v=nzNet8uhAJ4	A	Does not feature a domestic cat
6,231,951	SUPER CAT 03 OFF ROAD	https://www.youtube.com/watch?v=YoXOMbOXkmg	C	Advertisement
6,211,544	Viewer Video: Cat attacks woman in the snow	https://www.youtube.com/watch?v=o-oVhu2fu20		
6,173,096	Minecraft: I SAVED STAMPY CAT (Mod Showcase & Machinima)	https://www.youtube.com/watch?v=0aI64uVeRIM	A	Does not feature a domestic cat
6,166,314	Key & Peele - Cat Poster	https://www.youtube.com/watch?v=6haBMbtXSLg	A	Does not feature a

				domestic cat
6,164,669	BIG CATS like boxes too!	https://www.youtube.com/watch?v=J11uu8L8FTY	A	Does not feature a domestic cat
6,158,015	Thriller Cat ... wait for it	https://www.youtube.com/watch?v=R7ssVT6T3mQ	D	Meme
6,152,799	The cat is planning something evil (кот задумал что-то недоброе)	https://www.youtube.com/watch?v=TQBMPDbqlvc		
6,142,417	NYAN BATTLE! (Nyan cats Таc Nyan)	https://www.youtube.com/watch?v=JiGQGfun5W0	A	Does not feature a domestic cat
6,132,284	Gizmo Flushes	https://www.youtube.com/watch?v=WofFb_eOxxA		
6,116,400	Talking Tom Cat singing If You Are Happy	https://www.youtube.com/watch?v=ESX1XuYV45s	A	Cartoon
6,081,727	Cat Mario 3 - THE ABOMINATION CONTINUES!	https://www.youtube.com/watch?v=u7rC64-Rz6k	A	Does not feature a domestic cat
6,072,132	NYAN CAT CAKE - NERDY NUMMIES	https://www.youtube.com/watch?v=SqKIHGD_pmg	A	Does not feature a domestic cat
6,056,551	cat fell out with his own paws (кот в ссоре с собственными лапами)	https://www.youtube.com/watch?v=tctY8ntGx_M		
6,033,274	Holograf - Cat de departe (official video)	https://www.youtube.com/watch?v=W_kiV_SOKmw	A	Does not feature a domestic cat
6,029,776	Hilarious Cat vs Eagle thoughts	https://www.youtube.com/watch?v=VzgJ65pUehQ	E	Interspecies
6,029,672	World's Best Skateboarding Cat! Go Didga Go!	https://www.youtube.com/watch?v=YRbakPKgU5Y	C	Film
6,027,899	Three - #SingItKitty - cat advert	https://www.youtube.com/watch?v=SXy6JElmgHU	C	Advertisement
6,021,899	Almond Pudding #1 - Bunny, Cat, Bear	https://www.youtube.com/watch?v=iz4FuII6Lec	A	Does not feature a domestic cat
6,020,418	Raw Video: Policeman Vs. Kitty	https://www.youtube.com/watch?v=i_zRPWyATZw		
6,009,495	Talking Cat - The New Fish	https://www.youtube.com/watch?v=94WcWy67Kfw		

6,007,553	Al Stewart - Year of the Cat	https://www.youtube.com/watch?v=QM7LR46zrQU	A	Does not feature a domestic cat
6,007,524	Cat Scared of Mario jump (Кот Марио)	https://www.youtube.com/watch?v=TbUGwA_woCE		
6,002,699	Minecraft: KITTY CAT CHALLENGE [EPS6] [54]	https://www.youtube.com/watch?v=mYjJyjoXseg	A	Does not feature a domestic cat
5,987,462	Cat Hugs Baby Kitten Having Nightmare	https://www.youtube.com/watch?v=GzgpELFf4z4	D	Meme
5,982,357	Epic Cat Fight	https://www.youtube.com/watch?v=5yuLuKaWSbQ		
5,943,764	Little kittens meowing and talking - Cute cat compilation	https://www.youtube.com/watch?v=4IP_E7efGWE	C	Compilation
5,933,665	The Pussy Cat Dolls Don't Cha	https://www.youtube.com/watch?v=9ZyKF3KaK5s	A	Does not feature a domestic cat
5,901,086	Rihanna & Angelina Jolie cat eyeliner eye makeup tutorial	https://www.youtube.com/watch?v=seQweeWvKFW	A	Does not feature a domestic cat
5,899,014	Girl with her cat on the treadmill	https://www.youtube.com/watch?v=KFlaaa8fGoE		
5,892,442	Talking Cat -Too Much of a Good Thing	https://www.youtube.com/watch?v=fLBPsZVI8Gc		
5,884,908	Cats In The Cradle - Harry Chapin	https://www.youtube.com/watch?v=KUwjNBjqR-c	A	Does not feature a domestic cat
5,828,380	Baby and his Cat	https://www.youtube.com/watch?v=Vweh3hWrInM		
5,820,146	Cat-Friend vs Dog-Friend 2	https://www.youtube.com/watch?v=4fsSAPyHxJI	A	Does not feature a domestic cat
5,785,054	Cheetah v. Lion - Big Cat Diary - BBC	https://www.youtube.com/watch?v=3IwDHvNxjJo	A	Does not feature a domestic cat
5,775,100	My Singing Cat	https://www.youtube.com/watch?v=ljmjmvMTWyY		
5,772,150	LION ROAR - EXTREME CLOSE UP!!!	https://www.youtube.com/watch?v=aUfDxRelPHg	A	Does not feature a domestic cat
5,762,887	Cat Stevens-Wild World	https://www.youtube.com/watch?v=y8pvXLVu8Yk	A	Does not feature a domestic cat

5,758,424	Dorian - Mare albastra (Official Video)	https://www.youtube.com/watch?v=r7jIGg1EAXo	A	Does not feature a domestic cat
5,751,112	Morbidly Obese Cat	https://www.youtube.com/watch?v=LbqScTVBiWM	C	Advertisement
5,738,047	Nyan Cat (Alex S. Dubstep Remix)	https://www.youtube.com/watch?v=502xxCTRfxo	A	Cartoon
5,729,552	The Cat & The Ducklings (Animal Odd Couples)	https://www.youtube.com/watch?v=570khFoaE4s	E	Interspecies
5,725,856	N2 the Talking Cat - What Does the Cat Say? (What Does the Fox Say? Ylvis Parody)	https://www.youtube.com/watch?v=xPMPvAPiy3g	A	Does not feature a domestic cat
5,719,702	No No No Cat	https://www.youtube.com/watch?v=kxRX6LXDpWs	D	Meme
5,712,243	Uddi - Adam se Eva (Official Video)	https://www.youtube.com/watch?v=LEyHThDNueM	A	Does not feature a domestic cat
5,708,535	Cat Spraying in Heat	https://www.youtube.com/watch?v=4ekbYzy1UIk		
5,706,619	Dogs and cats meeting for the first time - Cute and funny dog & cat compilation	https://www.youtube.com/watch?v=_z7EKD6N3HM	C	Compilation
5,704,307	KIDS REACT to Keyboard Cat	https://www.youtube.com/watch?v=XkYcWzBCEb8	A	Does not feature a domestic cat
5,684,815	Bengal Cat wants to Walk on Water	https://www.youtube.com/watch?v=0ZSCQ0jrYI4		
5,679,889	Dj Project feat. Adela - Suflet vandut (Official Video)	https://www.youtube.com/watch?v=8-XzvpLseeA	A	Does not feature a domestic cat
5,651,423	There is Only One Stampy Cat	https://www.youtube.com/watch?v=P04C7q8HFpU	A	Cartoon
5,644,224	Stampy Cat Goes to Prison! / Roleplaying Adventure	https://www.youtube.com/watch?v=cr8jBNz6U-E	A	Cartoon
5,625,901	Cat Nip Trip	https://www.youtube.com/watch?v=14DYUQtGuV4		
5,613,624	Slow Motion Flipping Cat Physics Smarter Every Day 58	https://www.youtube.com/watch?v=RtWbpyjJqrU	C	Film
5,592,319	Cat Regrets Entering Bath	https://www.youtube.com/watch?v=2x8yn4Jn-Yc		

5,581,530	funny cats, funny cat videos, funny animals, funny video, cats funny, funny videos, funny cat	https://www.youtube.com/watch?v=JgjXG_9L_Jw	C	Compilation
5,565,365	Minecraft CAT DIMENSIONS! (Bad Cats, Evil Cats, Epic Cat Weapons & More!) Mod Showcase	https://www.youtube.com/watch?v=zS6br5dI34o	A	Cartoon
5,506,184	Victorious-Jade Imitating Cat's Voice (Opposite Date)	https://www.youtube.com/watch?v=zhm9mWsKdpA	A	Does not feature a domestic cat
5,475,502	Epic Cat Fight (cat's horror)	https://www.youtube.com/watch?v=cbBlyfTbA44	E	Interspecies
5,468,905	My cat can see the rotating snake illusion!	https://www.youtube.com/watch?v=CcXXQ6GCUb8		
5,448,674	Real Life PUSS IN BOOTS!	https://www.youtube.com/watch?v=gZy2I8csVQU	D	Meme
5,436,916	Happy Birthday Cat	https://www.youtube.com/watch?v=OrLSbDbEJno	B	Manipulation
5,420,218	玄関開けるまで259,202秒でにゃんこ♪ Cat welcome - short.5 after 3 days-	https://www.youtube.com/watch?v=QjeNh2ILXDU		
5,385,021	Teacher finds a cat drawn on his whiteboard!	https://www.youtube.com/watch?v=Op3GNXttVYY	A	Does not feature a domestic cat
5,364,287	SIMULADOR DE NYAN CAT CABRA	https://www.youtube.com/watch?v=UFP-EuP7sXQ	A	Does not feature a domestic cat
5,361,439	Death of Nyan Cat 1 / The Original	https://www.youtube.com/watch?v=lhIHPxKLV68	A	Cartoon
5,358,908	Munchkin Cat Pops Water Balloons	https://www.youtube.com/watch?v=MSkDGa9Ei4U		
5,351,503	Racist Cat	https://www.youtube.com/watch?v=KQ9D1Ow2H4A		
5,349,496	Cat Power - Lived in Bars	https://www.youtube.com/watch?v=MVGgGW1ZalY	A	Does not feature a domestic cat
5,348,947	CRBL feat. Ruby - Toata tara (Official Video)	https://www.youtube.com/watch?v=NA5m6iEyips	A	Does not feature a domestic cat

5,340,280	Pawtrait - Simon's Cat	https://www.youtube.com/watch?v=k1i9YmUgY0Q	A	Cartoon
5,337,227	Talking Kitty Cat 1 -Wake up kitty!	https://www.youtube.com/watch?v=kjZrUn03kXI		
5,239,895	X-Men origins: Wolverine Cat	https://www.youtube.com/watch?v=3d4XMUYj-9k	C	Film
5,236,068	Nyan Cat - OMEGA Extended Edition 【3 AND 1/2 HOURS OF NYAN SPLENDIDNESS】	https://www.youtube.com/watch?v=p5PiXt6INSM	A	Cartoon
5,201,977	Rare Spoonbill Cat	https://www.youtube.com/watch?v=vkKWfMPqxAw	A	Does not feature a domestic cat
5,198,497	Epic Funny Cats - Compilation Part Two "The Cat Strikes Back!"	https://www.youtube.com/watch?v=3nxSvvEudHE	C	Compilation
5,198,032	Cat Alarm Clock	https://www.youtube.com/watch?v=4aTagDSnclK		
5,188,750	Cat Stevens - Moonshadow	https://www.youtube.com/watch?v=kGNxKnLmOH4	A	Does not feature a domestic cat
5,186,981	Delia - Doar pentru tine (Official Single)	https://www.youtube.com/watch?v=q-puwePFGAU	A	Does not feature a domestic cat
5,181,081	Cat meowing and purring	https://www.youtube.com/watch?v=o20C8lbpEhI		

Appendix B

Information on the Videos

Key for Appendix B:

Label	Category Title
A	Video Number
B	Length of time, in seconds, cat is present in video. If multiple cats are featured the length of time each cat is featured is in parenthesis. The cats are listed in order of appearance.
C	Number of view the video had amassed as of 6/3/2014
D	Name of video, as listed on YouTube on 6/3/2014
E	YouTube URL for the video
F	Category. For Oddity videos: A = Cat Fail, B = Human Draw, C = Rare Behavior
G	Location where the video takes place. H: home; Y: yard; S: shelter or veterinary clinic
H	Whether multiple cats were featured in the video
I	State of vocalizations in video: A: audible; D: visually discernible; U: unknown
J	Whether human/cat interactions were present in the video.

A	B	C	D	E	F	G	H	I	J
1	19.63	121,284,067	Very Angry Cat	https://www.youtube.com/watch?v=1hPxGmTGarM	Agonism	S		A	Y
2	110.8 (55.4/cat)	59,338,285	The Two Talking Cats	https://www.youtube.com/watch?v=z3U0udLH974	Affiliation	H	x	A	N

3	120.06 (60.03/ cat)	57,819,007	Cat Mom Hugs Baby Kitten	https://www.youtube.com/watch?v=Vw4KVoEVcr0	Affiliation	H	x	A	N
4	62.40	46,009,610	だるまさんが転んにゃ - Stalking Cat	https://www.youtube.com/watch?v=fzzjgBAaWZw	Play	H		A	Y
5	105.09	37,847,048	Crazy Cat Love Water	https://www.youtube.com/watch?v=0iXHim3ToQ4	Play	H		U	N
6	76.6 (38.3/c at)	31,991,471	Kitten Surprise! (How to Break Up a Cat Fight!) THE ORIGINAL!	https://www.youtube.com/watch?v=YLDbGqJ2KYk	Play	H	x	A	N
7	20	29,042,700	Dramatic Cat	https://www.youtube.com/watch?v=plWnm7UpsXk	Odd (B)	H			
8	37	26,327,139	Talking Cat	https://www.youtube.com/watch?v=7tRWRSfcDuQ	Odd (C)	H			
9	30.65	23,849,072	Awsome Cat	https://www.youtube.com/watch?v=qs3HBZC-AY8	Play	H		A	N
10	18	23,026,298	The OMG Cat	https://www.youtube.com/watch?v=C_S5cXbXe-4	Odd (C)	H			
11	22	21,937,796	Barking cat gets caught! (ORIGINAL)	https://www.youtube.com/watch?v=aP3gzee1cp	Odd (C)	H			

				s					
12	1112.35 (1st cat: 61.71; 2nd cat: 50.64)	21,574,185	Cat Saves Child From Mom	https://www.youtube.com/watch?v=w4luuBbMUeY	Agonism	H	x	U	Y
13	119	21,262,231	Ridiculous cats mating Part II (loud). The best cats mating!	https://www.youtube.com/watch?v=N7Ujd7RDg9g	Odd (C)	H			
14	195.1 (97.55/ cat)	20,678,450	Cats Playing Patty-cake, what are they saying...	https://www.youtube.com/watch?v=X3iFhLdWjqc	Play	H	x	U	N
15	32.67	18,799,092	Talking Cat	https://www.youtube.com/watch?v=XU2EtLHVoiI	Affiliation	H		A	Y
16	55.13	18,259,869	The Original Grumpy Cat	https://www.youtube.com/watch?v=INscMGmhmx4	Affiliation	H		A	Y
17	13	18,045,181	Кот ушёл / Cat gone	https://www.youtube.com/watch?v=WxGS-2M6_5I	Odd (C)	H			
18	33	16,603,060	Cat Jump Fail with Music: Sail by AWOLNATION	https://www.youtube.com/watch?v=Awf45u6zrP0	Odd (A)	H Y			
19	47.52	16,495,890	Girl Playing with her Cat	https://www.youtube.com/watch?v=tY4GILvbCJk	Agonism	H		A	Y

20	99.23	16,324,459	Cat Soothing Crying Baby to Sleep	https://www.youtube.com/watch?v=PWXigjFm4TM	Affiliation	H		A	Y
21	26	16,212,097	Fat Cat in pot (attempt 2)	https://www.youtube.com/watch?v=EHwu-H_KtfU	Odd (A)	H		A	
22	161.32	16,041,977	Official Video: Cat Bath Freak Out - Tigger the cat says 'NO!' to bath	https://www.youtube.com/watch?v=PM5BCjNswd0	Agonism	H		A	Y
23	33.12	15,433,286	My Cat Speaks When He is Awoken	https://www.youtube.com/watch?v=TJ5UJv9A4jE	Affiliation	H Y		U	N
24	169.02	15,382,530	The most patient docile cat ever!	https://www.youtube.com/watch?v=C-UKbDMfnuI	Agonism	H		A	Y
25	52	14,622,900	Toilet Trained Cat Doing Number 2	https://www.youtube.com/watch?v=_ug7WEUxH68	Odd (B)	H			
26	67	14,248,846	mama cat comes to rescue her little kitten	https://www.youtube.com/watch?v=S5-D0f6nHSQ	Odd (C)	H			
27	240.95(1st cat: 118.96; 2nd cat:121.99)	13,928,192	Cat Fight	https://www.youtube.com/watch?v=-CezNIRYYGY	Agonism	H	x	U	N

28	26.12	12,693,089	My cat Tiggy talking / speaking saying hello	https://www.youtube.com/watch?v=eV71mpbvl-g	Affiliation	H		A	N
29	28	12,649,135	Sweet Tired Cat [-.-] - Fluffy Persian Kitten -	https://www.youtube.com/watch?v=2GWPOPSXGYI	Odd (B)	H			
30	93.48	12,186,482	Cat on trampoline funny	https://www.youtube.com/watch?v=KFt5Zz5Mwlo&spfreload=1	Play	H Y		A	Y
31	11	11,398,708	Cat who likes to watch the toilet flush	https://www.youtube.com/watch?v=tpcTkV1tKDs	Odd (B)	H			
32	57.76	11,242,182	Cute cat thinks it's a dog	https://www.youtube.com/watch?v=8ZuCT4PmurY	Play	H		A	Y
33	86.28	11,124,581	Our Funny Cat: "Why Won't He Wake Up to Play with Me?"	https://www.youtube.com/watch?v=n_-HKkEXkGY	Affiliation	H		A	Y
34	62	10,945,073	My Cat Peeing in the Toilet!	https://www.youtube.com/watch?v=I1edDfzluXE	Odd (B)	H			
35	113.28	10,851,727	NONONON O Cat	https://www.youtube.com/watch?v=oKI-tD0L18A	Agonism	H		A	Y
36	103	10,813,602	How to Wrap a Cat for Christmas	https://www.youtube.com/watch?v=jm3dm5J5r0	Odd (B)	H			

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37	27	10,806,345	Cat Terrorized by Popcorn	https://www.youtube.com/watch?v=PnJo7d-xBjY	Odd (B)	H			
38	57.02	10,741,847	Cute cat loves baby - from funny and cute cats and babies collection	https://www.youtube.com/watch?v=tFz1jK6sGIU	Affiliation	H		U	Y
39	38	10,728,360	[Cat sitting relaxed / 夕暮れのお座り猫ちゃん] Cat+1 Channel	https://www.youtube.com/watch?v=FxMOOyQI99g	Odd (B)	O			
40	113	10,510,994	Cat Wearing a Shark Costume Clean the Kitchen on a Roomba. Shark Week. #SharkCat cleaning Kitchen	https://www.youtube.com/watch?v=tLt5rBfNuc	Odd (B)	H			
41	138.66	10,429,057	Iggy investigates an ipad	https://www.youtube.com/watch?v=Q9NP-AeKX40	Play	H		A	Y
42	73.76	10,347,287	Cat that likes water	https://www.youtube.com/watch?v=A1QL_7hrIEI	Play	H		A	N
43	82.85	10,094,398	Jenga Cat	https://www.youtube.com/watch?v=rOyZojbYUEA	Play	H		A	Y

44	575	10,061,232	Sparta giving birth to 6 kittens	https://www.youtube.com/watch?v=CaSpFPrWyxU	Odd (C)	H			
45	113.03	9,931,162	Talking cat in sink	https://www.youtube.com/watch?v=cWlJfDJVsHU	Affiliation	H		A	Y
46	114	9,923,201	8 signs your cat is actually a dog	https://www.youtube.com/watch?v=OztGJhiBQTo	Odd (B)	H			
47	109	9,805,714	Human Cat Perch	https://www.youtube.com/watch?v=ExZ0i04pSeY	Odd (B)	H			
48	19	9,697,506	Waffles the Terrible - Funny cat Fails Epic Jump	https://www.youtube.com/watch?v=5d7aruKYkKs	Odd (A)	H Y			
49	90.78 (45.39/ cat)	9,533,742	Cat Welcomes Home Soldier (Awesome)	https://www.youtube.com/watch?v=Cx14ohE6nHs	Affiliation	H	x	A	Y
50	209.2	8,990,629	Nora The Piano Cat: The Sequel - Better than the original!	https://www.youtube.com/watch?v=v0zgQAp7EYw	Play	H		A	Y
51	85.83	8,906,285	Cat Playing "I Spy"	https://www.youtube.com/watch?v=7ltcWcwnPfY	Affiliation	H		D	Y
52	47.92	8,807,694	Pat the Cat	https://www.youtube.com/watch?v=8fwXeBCMRT4	Affiliation	H		A	Y

53	233.20 (1st cat:116. 36; 2nd cat: 116.84)	8,595,152	Bengal Cat talking to her kitten - Original	https://www .youtube.co m/watch?v= fd5S_wpOC NE	Affiliation	H	x	A	N
54	164.02 (82.01/ cat)	8,584,914	Senile Talking Cat (The Original)	https://www .youtube.co m/watch?v= jbEXr9- 5UjI	Agonism	O	x	A	N
55	17.962 (8.98/c at)	8,307,465	Cat Pushes another Cat Down the Stairs *Original	https://www .youtube.co m/watch?v= V3GJycgu- cs	Play	H	x	A	N
56	44.81	8,188,124	Ultimate Cat Tease	https://www .youtube.co m/watch?v= MkQwJOLf r1k	Affiliation	H		D	Y
57	107	8,095,509	Cat Using Toilet & Toilet Paper	https://www .youtube.co m/watch?v= zQbHS4YJ OMc	Odd (B)	H			
58	93.911	7,966,730	A Beautiful Relationship - Savannah Cat MAGIC and Andreas Stucki	https://www .youtube.co m/watch?v= zuiKbnA3w 0Q	Affiliation	H		U	Y
59	73.7	7,912,932	怒らない猫 ~ Baby bite cat's tail ~	https://www .youtube.co m/watch?v= SYLj372c- zM	Agonism	H		A	Y
60	209	7,830,598	Cat plays dead to avoid going for a walk	https://www .youtube.co m/watch?v= 5sy1MDHZ 27M	Odd (B)	H			
61	53	7,800,495	Toilet Cat	https://www .youtube.co m/watch?v=	Odd (B)	H			

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62	43.52 (21.72/ cat)	7,746,860	Кошка просит прощения / Ржу не могу / Cat tries to apologize	https://www .youtube.co m/watch?v= yNS7zzIzX- E	Play	H	x	U	N
63	325.06 (1st cat: 162.19; 2nd cat:162. 87)	7,621,138	Real Cat Fight (Watch With Sound)	https://www .youtube.co m/watch?v= vEvvRfuVk 30	Agonism	O	x	A	N
64	129	7,586,668	Ask Jupiter - Talking Cat Answers Your Questions	https://www .youtube.co m/watch?v= - qPGHn4iH Kk	Odd (B)	H			
65	4.49	7,466,886	Cat Walking on two legs 2	https://www .youtube.co m/watch?v= 6qnf9nx706 w	Agonism	H		A	Y
66	27.16	7,026,843	Demon cat- talks funny	https://www .youtube.co m/watch?v= qj21q1mYm xw	Agonism	H		A	Y
67	45	6,963,133	Standing Cat	https://www .youtube.co m/watch?v= MVV_HXt EbLo	Odd (C)	H			
68	347.23 (1st cat:120. 17; 2nd cat:117. 28; 3rd cat: 109.78)	6,945,526	Cats arguing! The best cat video you'll ever see!!	https://www .youtube.co m/watch?v= 6QNoDzozj kw	Agonism	H	x	A	N

69	9	6,899,993	Cat plays dead after a finger shot!!!	https://www.youtube.com/watch?v=TpBq1MIwCM4	Odd (B)	H			
70	51	6,889,559	Talking Kitty Cat 7.5 - Sylvester's Catnip Overdose	https://www.youtube.com/watch?v=sXMmqsqNJXA	Odd (B)	H			
71	152.44	6,834,849	Talking cat Theo greeting his "Papa"	https://www.youtube.com/watch?v=RCfstWh7OV8	Affiliation	H		A	Y
72	33.86	6,707,919	テルミンを演奏するネコ cat plays with a teremin	https://www.youtube.com/watch?v=0ONJfp95yoE	Play	H		A	N
73	60	6,632,428	Kittens on a Slide	https://www.youtube.com/watch?v=gppbrYIcR80	Odd (C)	H Y			
74	83.19	6,548,872	だるまさんが転んにゃ 2 - Stalking Cat 2 -	https://www.youtube.com/watch?v=MEemEN8PFsgI	Play	H		A	Y
75	55.79	6,370,554	My Weird Cat talking to a Moth	https://www.youtube.com/watch?v=WYxDM1BQoOw	Affiliation	H		A	N
76	55.73	6,335,587	Crazy talking cat	https://www.youtube.com/watch?v=7UgVbEmBLPc	Affiliation	H		A	Y
77	29	6,277,304	How to deactivate a cat	https://www.youtube.com/watch?v=T9TmmF79Rw0	Odd (B)	S			

78	47.22	6,211,544	Viewer Video: Cat attacks woman in the snow	https://www.youtube.com/watch?v=o-oVhu2fu20	Agonism	O		U	Y
79	19	6,152,799	The cat is planning something evil (кот задумал что-то недоброе)	https://www.youtube.com/watch?v=TQBMPDbqlvc	Odd (B)	H			
80	169	6,132,284	Gizmo Flushes	https://www.youtube.com/watch?v=WofFb_eOxxA	Odd (B)	H			
81	19	6,056,551	cat fell out with his own paws (кот в ссоре с собственными лапами)	https://www.youtube.com/watch?v=tctY8ntGx_M	Odd (C)	H			
82	106.66	6,020,418	Raw Video: Policeman Vs. Kitty	https://www.youtube.com/watch?v=i_zRPWyATZw	Affiliation	O		U	Y
83	140.54	6,009,495	Talking Cat - The New Fish	https://www.youtube.com/watch?v=94WcWy67Kfw	Play	H		D	Y
84	62	6,007,524	Cat Scared of Mario jump (Кот Марио)	https://www.youtube.com/watch?v=TbUGwA_woCE	Odd (B)	H			

85	451.62 (1st cat: 45.26; 2nd cat: 43.87; 3rd cat: 43.08 4th cat:15.0 1; 5th cat: 2.63; 6th cat: 142.26; 7th cat: 52.53; 8th cat: 99.53; 9th cat: 7.44)	5,982,357	Epic Cat Fight	https://www.youtube.com/watch?v=5yuLuKaWSbQ	Agonism	O	x	A	N
86	76	5,899,014	Girl with her cat on the treadmill	https://www.youtube.com/watch?v=KFlaaa8fGoE	Odd (B)	H			
87	71.57	5,892,442	Talking Cat - Too Much of a Good Thing	https://www.youtube.com/watch?v=fLBPsZVI8Gc	Affiliation	H		D	Y
88	70.16	5,828,380	Baby and his Cat	https://www.youtube.com/watch?v=Vweh3hWrInM	Affiliation	H		A	Y
89	57.03	5,775,100	My Singing Cat	https://www.youtube.com/watch?v=ljmjmvMTWyY	Affiliation	H		A	N
90	20	5,708,535	Cat Spraying in Heat	https://www.youtube.com/watch?v=4ekbYzy1UIk	Odd (C)	H			

91	74	5,684,815	Bengal Cat wants to Walk on Water	https://www.youtube.com/watch?v=0ZSCQ0jrYI4	Odd (B)	H Y			
92	78	5,625,901	Cat Nip Trip	https://www.youtube.com/watch?v=14DYUQtGuV4	Odd (B)	H			
93	13.74	5,592,319	Cat Regrets Entering Bath	https://www.youtube.com/watch?v=2x8yn4Jn-Yc	Agonism	H		A	Y
94	78.6	5,468,905	My cat can see the rotating snake illusion!	https://www.youtube.com/watch?v=CcXXQ6GCUb8	Play	H		A	N
95	28.38	5,420,218	玄関開けるまで259,202秒でにゃんこ♪ Cat welcome - short.5 after 3 days-	https://www.youtube.com/watch?v=QjeNh2ILXDU	Affiliation	H		A	Y
96	55	5,358,908	Munchkin Cat Pops Water Balloons	https://www.youtube.com/watch?v=MSkDGa9Ei4U	Odd (B)	H			
97	28.88	5,351,503	Racist Cat	https://www.youtube.com/watch?v=KQ9D1Ow2H4A	Affiliation	H		A	N
98	76.37	5,337,227	Talking Kitty Cat 1 -Wake up kitty!	https://www.youtube.com/watch?v=kjZrUn03kXI	Affiliation	H		D	Y
99	76.75	5,198,032	Cat Alarm Clock	https://www.youtube.com/watch?v=	Play	H		A	Y

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100	58.1	5,181,081	Cat meowing and purring	https://www .youtube.co m/watch?v= o20C8lbpEh I	Affiliation	H		A	Y