


# Rabbit

Rabbit	
	
Scientific classification	
Kingdom:	Animalia
Phylum:	Chordata
Subphylum:	Vertebrata
Class:	Mammalia
Order:	Lagomorpha
Family:	Leporidae in part
Genera	
<i>Pentalagus</i>	<i>Brachylagus</i>
<i>Bunolagus</i>	<i>Sylvilagus</i>
<i>Nesolagus</i>	<i>Oryctolagus</i>
<i>Romerolagus</i>	<i>Poelagus</i>

**Rabbits** are small mammals in the family Leporidae of the order Lagomorpha, found in several parts of the world. There are eight different genera in the family classified as rabbits, including the European rabbit (*Oryctolagus cuniculus*), cottontail rabbits (genus *Sylvilagus*; 13 species), and the Amami rabbit (*Pentalagus furnessi*, an endangered species on Amami Ōshima, Japan). There are many other species of rabbit, and these, along with pikas and hares, make up the order Lagomorpha. The male is called a *buck* and the female is a *doe*; a young rabbit is a *kitten* or *kit*.

## Habitat and range

Rabbit habitats include meadows, woods, forests, grasslands, deserts and wetlands. Rabbits live in groups, and the best known species, the European rabbit, lives in underground burrows, or rabbit holes. A group of burrows is called a warren.

More than half the world's rabbit population resides in North America. They are also native to southwestern Europe, Southeast Asia, Sumatra, some islands of Japan, and in parts of Africa and South America. They are not naturally found in most of Eurasia, where a number of species of hares are present. Rabbits first entered South America relatively



Outdoor entrance to a rabbit burrow

recently, as part of the Great American Interchange. Much of the continent has just one species of rabbit, the tapeti, while most of South America's southern cone is without rabbits.

The European rabbit has been introduced to many places around the world.

## Biology

### Evolution

Because the rabbit's epiglottis is engaged over the soft palate except when swallowing, the rabbit is an obligate nasal breather. Rabbits have two sets of incisor teeth, one behind the other. This way they can be distinguished from rodents, with which they are often confused. Carl Linnaeus originally grouped rabbits and rodents under the class Glires; later, they were separated as the scientific consensus is that many of their similarities were a result of convergent evolution. However, recent DNA analysis and the discovery of a common ancestor has supported the view that they share a common lineage, and thus rabbits and rodents are now often referred to together as members of the superclass Glires.<sup>[1]</sup>



A skin-skeletal preparation showing its incisors

### Morphology

The rabbit's long ears, which can be more than 10 cm (4 in) long, are probably an adaptation for detecting predators. They have large, powerful hind legs. The two front paws have 5 toes, the extra called the dewclaw. The hind feet have 4 toes. They are plantigrade animals while at rest; however, they move around on their toes while running, assuming a more digitigrade form. Wild rabbits do not differ much in their body proportions or stance, with full, egg-shaped bodies. Their size can range anywhere from 20 cm (8 in) in length and 0.4 kg in weight to 50 cm (20 in) and more than 2 kg. The fur is most commonly long and soft, with colors such as shades of brown, gray, and buff. The tail is a little plume of brownish fur (white on top for cottontails). Rabbits can see nearly 360 degrees, with a small blind spot at the bridge of the nose.<sup>[2]</sup>



Video of a European rabbit, showing ears twitching and a jump

### Ecology

Rabbits are hindgut digesters. This means that most of their digestion takes place in their large intestine and cecum. In rabbits the cecum is about 10 times bigger than the stomach and it along with the large intestine makes up roughly 40% of the rabbit's digestive tract.<sup>[3]</sup> The unique musculature of the cecum allows the intestinal tract of the rabbit to separate fibrous material from more digestible material; the fibrous material is passed as feces, while the more nutritious material is encased in a mucous lining as a cecotrope. Cecotropes, sometimes called "night feces", are high in minerals, vitamins and proteins that are necessary to the rabbit's health. Rabbits eat these to meet their nutritional requirements; the mucous coating allows the nutrients to pass through the acidic stomach for digestion in the intestines. This process allows rabbits to extract the necessary nutrients from their food.<sup>[4]</sup>

Rabbits are prey animals and are therefore constantly aware of their surroundings. For instances, in Mediterranean Europe, rabbits are the main prey of red foxes, badgers, and Iberian lynxes. If confronted by a potential threat, a rabbit may freeze and observe then warn others in the warren with powerful thumps on the ground. Rabbits have a remarkably wide field of vision, and a good deal of it is devoted to overhead scanning.<sup>[5]</sup> They survive predation by burrowing, hopping away in a zig-zag motion, and, if captured, delivering powerful kicks with their hind legs. Their strong teeth allow them to eat and to bite in order to escape a struggle.<sup>[6]</sup>

## Sleep

Rabbits are crepuscular, most active at dawn and dusk. The average sleep time of a captive rabbit is said to be 8.4 hours.<sup>[7]</sup>

## Lifespan



A litter of rabbit kits (baby rabbits)

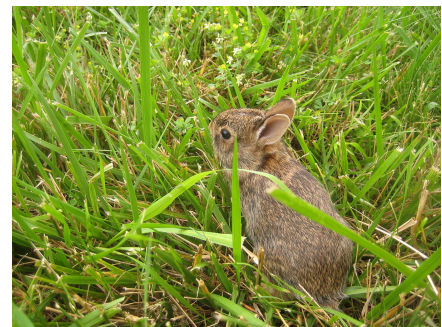
The expected rabbit lifespan is about 9–12 years;<sup>[8][9]</sup> the world's oldest rabbit on record lived 18 years.



A nest containing baby rabbits

## Diet and eating habits

Rabbits are herbivores that feed by grazing on grass, forbs, and leafy weeds. In consequence, their diet contains large amounts of cellulose, which is hard to digest. Rabbits solve this problem by passing two distinct types of feces: hard droppings and soft black viscous pellets, the latter of which are known as caecotrophs and are immediately eaten (a behaviour known as *coprophagy*). Rabbits reingest their own droppings (rather than chewing the cud as do cows and many other herbivores) to digest their food further and extract sufficient nutrients.



A young rabbit looking through the grass.

Rabbits graze heavily and rapidly for roughly the first half hour of a grazing period (usually in the late afternoon), followed by about half an hour of more selective feeding. In this time, the rabbit will also excrete many hard fecal pellets, being waste pellets that will not be reingested. If the environment is relatively non-threatening, the rabbit will remain outdoors for many hours, grazing at intervals. While out of the burrow, the rabbit will occasionally reingest its soft, partially digested pellets; this is rarely observed, since the pellets are reingested as they are produced. Reingestion is most common within the burrow between 8 o'clock in the morning and 5 o'clock in the evening, being carried out intermittently within that period.

Hard pellets are made up of hay-like fragments of plant cuticle and stalk, being the final waste product after redigestion of soft pellets. These are only released outside the burrow and are not reingested. Soft pellets are usually produced several hours after grazing, after the hard pellets have all been excreted. They are made up of micro-organisms and undigested plant cell walls.

The chewed plant material collects in the large cecum, a secondary chamber between the large and small intestine containing large quantities of symbiotic bacteria that help with the digestion of cellulose and also produce certain B vitamins. The pellets are about 56% bacteria by dry weight, largely accounting for the pellets being 24.4% protein on average. These pellets remain intact for up to six hours in the stomach; the bacteria within continue to digest the plant carbohydrates. The soft feces form here and contain up to five times the vitamins of hard feces. After being excreted, they are eaten whole by the rabbit and redigested in a special part of the stomach. This double-digestion process enables rabbits to use nutrients that they may have missed during the first passage through the gut, as well as the nutrients formed by the microbial activity and thus ensures that maximum nutrition is derived from the food they eat. This process serves the same purpose within the rabbit as rumination does in cattle and sheep.<sup>[10]</sup>

Rabbits are incapable of vomiting.

## Rabbit diseases

Rabbits can be affected by a number of diseases. These include pathogens that also affect other animals and/or humans, such as *Bordetella bronchiseptica* and *Escherichia coli*, as well as diseases unique to rabbits such as rabbit haemorrhagic disease and myxomatosis.

Rabbits and hares are almost never found to be infected with rabies and have not been known to transmit rabies to humans.

Among the parasites that infect rabbits are tapeworms such as *Taenia serialis*, external parasites like fleas and mites, coccidia species, and *Toxoplasma gondii*.

## Differences from hares

The most obvious difference between rabbits and hares is how their kits are born. Rabbits are altricial, having young that are born blind and hairless. In contrast, hares are precocial, born with hair and good vision. All rabbits except cottontail rabbits live underground in burrows or warrens, while hares live in simple nests above the ground (as do cottontail rabbits), and usually do not live in groups. Hares are generally larger than rabbits, with longer ears, larger and longer hind legs and have black markings on their fur. Hares have not been domesticated, while European rabbits are both raised for meat and kept as pets.



## As pets

Domestic rabbits can be kept as pets in a back yard hutch or indoors in a cage or house trained to have free roam. Rabbits kept indoors are often referred to as house rabbits. House rabbits typically have an indoor pen or cage and a rabbit-safe place to run and exercise, such as an exercise pen, living room or family room. Rabbits can be trained to use a litter box and some can learn to come when called. Domestic rabbits that do not live indoors can also serve as companions for their owners, typically living in a protected hutch outdoors. Some pet rabbits live in outside hutches during the day for the benefit of fresh air and natural daylight and are brought inside at night.

Whether indoor or outdoor, pet rabbits' pens are often equipped with enrichment activities such as shelves, tunnels, balls, and other toys. Pet rabbits are often provided additional space in which to get exercise, simulating the open space a rabbit would traverse in the wild. Exercise pens or lawn pens are often used to provide a safe place for rabbits to run.

A pet rabbit's diet typically consists of unlimited timothy-grass or other hay, a small amount of pellets, and a fair quantity of fresh vegetables and need unrestricted access to fresh clean water. Rabbits are social animals. Rabbits as pets can find their companionship with a variety of creatures, including humans, other rabbits, birds, chinchillas, guinea pigs, and sometimes even cats and dogs (however they require supervision when with dogs and cats, as they might be preyed upon or attacked by these animals). Rabbits can make good pets for younger children when proper parental supervision is provided. As prey animals, rabbits are alert, timid creatures that startle fairly easily. They have fragile bones, especially in their backs, that require support on the belly and bottom when picked up. Older children and teenagers usually have the maturity required to care for a rabbit.

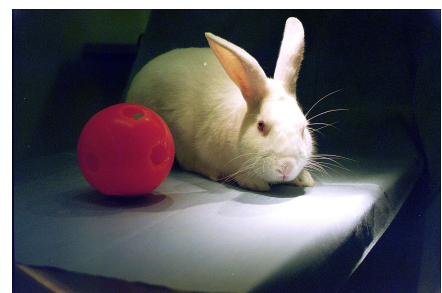
## Aggression

Rabbits may grunt, lunge and even bite. Usually they do not bite hard enough to break skin. Rabbits become aggressive when they feel threatened. This behavior can be corrected with the proper tools. The House Rabbit Society says that the owner of the pet needs to win its trust, with certain behavioral tools.<sup>[11]</sup>

## As food and clothing



Rabbit in the snow



European Rabbit (*Oryctolagus cuniculus*)

Leporids such as European rabbits and hares are a food meat in Europe, South America, North America, some parts of the Middle East.

Rabbit is still sold in UK butchers and markets, and some supermarkets sell frozen rabbit meat. Additionally, some have begun selling fresh rabbit meat alongside other types of game. At farmers markets and the famous Borough Market in London, rabbits will be displayed dead and hanging unbutchered in the traditional style next to braces of pheasant and other small game. Rabbit meat was once commonly sold in Sydney, Australia, the sellers of which giving the name to the rugby league team the South Sydney Rabbitohs, but quickly became unpopular after the disease myxomatosis was introduced in an attempt to wipe out the feral rabbit population (see also Rabbits in Australia). Rabbit meat is also commonly used in Moroccan cuisine, where it is cooked in a tajine with "raisins and grilled almonds added a few minutes before serving".<sup>[12]</sup> Rabbit meat is unpopular in the Asia-Pacific.

When used for food, rabbits are both hunted and bred for meat. Snares or guns are usually employed when catching wild rabbits for food. In many regions, rabbits are also bred for meat, a practice called cuniculture. Rabbits can then be killed by hitting the back of their heads, a practice from which the term *rabbit punch* is derived. Rabbit meat is a source of high quality protein. It can be used in most ways chicken meat is used. In fact, well-known chef Mark Bittman says that domesticated rabbit tastes like chicken because both are blank palettes upon which any desired flavors can be layered. Rabbit meat is leaner than beef, pork, and chicken meat. Rabbit products are generally labeled in three ways, the first being Fryer. This is a young rabbit between 2.0 and 2.3 kilograms (4.5 and 5 lb) and up to 9 weeks in age.<sup>[13]</sup> This type of meat is tender and fine grained. The next product is a Roaster; they are usually over 2.3 kilograms (5 lb) and up to 8 months in age. The flesh is firm and coarse grained and less tender than a fryer. Then there are giblets which include the liver and heart. One of the most common types of rabbit to be bred for meat is New Zealand white rabbit.

There are several health issues associated with the use of rabbits for meat, one of which is tularemia or rabbit fever. Another is so-called rabbit starvation, due most likely to deficiency of essential fatty acids in rabbit meat. Rabbits are a common food item of large snakes, such as Burmese pythons and reticulated pythons, both in the wild and in captivity.



Rabbit meat sold commercially



Tanned rabbit pelt; rabbit pelt is prized for its softness.



An Australian 'Rabbitter' circa 1900



An old wooden cart, piled with rabbit skins, in New South Wales, Australia

Rabbit pelts are sometimes used for clothing and accessories, such as scarves or hats. Angora rabbits are bred for their long, fine hair, which can be sheared and harvested like sheep wool. Rabbits are very good producers of manure; additionally, their urine, being high in nitrogen, makes lemon trees very productive. Their milk may also be of great medicinal or nutritional benefit due to its high protein content.

## Environmental problems

Rabbits have been a source of environmental problems when introduced into the wild by humans. As a result of their appetites, and the rate at which they breed, feral rabbit depredation can be problematic for agriculture. Gassing, barriers (fences), shooting, snaring, and ferreting have been used to control rabbit populations, but the most effective measures are diseases such as myxomatosis (myxo or mixi, colloquially) and calicivirus. In Europe, where rabbits are farmed on a large scale, they are protected against myxomatosis and calicivirus with a genetically modified virus. The virus was developed in Spain, and is beneficial to rabbit farmers. If it were to make its way into wild populations in areas such as Australia, it could create a population boom, as those diseases are the most serious threats to rabbit survival. Rabbits in Australia and New Zealand are considered to be such a pest that land owners are legally obliged to control them.

## In culture and literature

Rabbits are often used as a symbol of fertility or rebirth, and have long been associated with spring and Easter as the Easter Bunny. The species' role as a prey animal also lends itself as a symbol of innocence, another Easter connotation.

Additionally, rabbits are often used as symbols of playful sexuality, which also relates to the human perception of innocence, as well as its reputation as a prolific breeder.

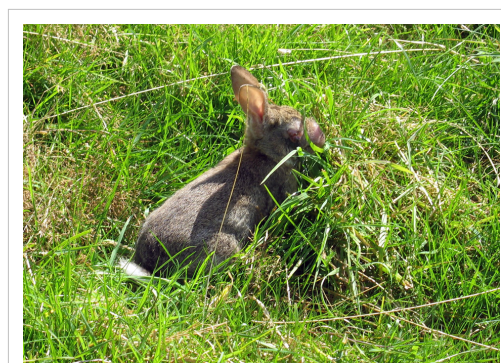
## Folklore and mythology

The rabbit often appears in folklore as the trickster archetype, as he uses his cunning to outwit his enemies.

- In Aztec mythology, a pantheon of four hundred rabbit gods known as Centzon Totochtin, led by Ometochtli or Two Rabbit, represented fertility, parties, and drunkenness.
- In Central Africa, the common hare (*Kalulu*), is "inevitably described" as a trickster figure.<sup>[14]</sup>
- In Chinese folklore, rabbits accompany Chang'e on the Moon. Also associated with the Chinese New Year (or Lunar New Year), rabbits are also one of the twelve celestial animals in the Chinese Zodiac for the Chinese calendar. It is interesting to note that the Vietnamese lunar new year replaced the rabbit with a cat in their calendar, as rabbits did not inhabit Vietnam.
- A rabbit's foot is carried as an amulet believed to bring good luck. This is found in many parts of the world, and with the earliest use being in Europe around 600 B.C.<sup>[15]</sup>
- In Japanese tradition, rabbits live on the Moon where they make mochi, the popular snack of mashed sticky rice. This comes from interpreting the pattern of dark patches on the moon as a rabbit standing on tiptoes on the left pounding on an usu, a Japanese mortar (See also: Moon rabbit).



When introduced into a new area, rabbits can overpopulate rapidly, becoming a nuisance, as on this university campus



European Rabbit in Shropshire, England, infected with myxomatosis, a disease caused by the Myxoma virus

- In Jewish folklore, rabbits (shfanim שפנים) are associated with cowardice, a usage still current in contemporary Israeli spoken Hebrew (similar to English colloquial use of "chicken" to denote cowardice).
- In Korean mythology, like in Japanese, presents rabbits living on the moon making rice cakes (Tteok in Korean).
- In Anishinaabe traditional beliefs, held by the Ojibwe and some other Native American peoples, Nanabozho, or Great Rabbit, is an important deity related to the creation of the world.
- A Vietnamese mythological story portrays the rabbit of innocence and youthfulness. The Gods of the myth are shown to be hunting and killing rabbits to show off their power.

On the Isle of Portland in Dorset, UK, the rabbit is said to be unlucky and speaking its name can cause upset with older residents. This is thought to date back to early times in the quarrying industry, where piles of extracted stone (not fit for sale) were built into tall rough walls (to save space) directly behind the working quarry face; the rabbit's natural tendency to burrow would weaken these "walls" and cause collapse, often resulting in injuries or even death. The name rabbit is often substituted with words such as "long ears" or "underground mutton", so as not to have to say the actual word and bring bad luck to oneself. It is said that a public house (on the island) can be cleared of people by calling out the word rabbit and while this was very true in the past, it has gradually become more fable than fact over the past 50 years. See also Three hares.

### Other fictional rabbits

The rabbit as trickster appears in American popular culture; for example the Br'er Rabbit character from African-American folktales and Disney animation; and the Warner Bros. cartoon character Bugs Bunny.

Anthropomorphized rabbits have appeared in a host of works of film, literature, and technology, notably the White Rabbit and the March Hare in Lewis Carroll's *Alice's Adventures in Wonderland*; in the popular novels *Watership Down*, by Richard Adams (which has also been made into a movie), *Rabbit Hill* by Robert Lawson, as well as in Beatrix Potter's Peter Rabbit stories and Oswald the Lucky Rabbit from 1920s and 1930s cartoons.

### Urban legends

It was commonly believed that pregnancy tests were based on the idea that a rabbit would die if injected with a pregnant woman's urine. This is not true. However, in the 1920s it was discovered that if the urine contained the hCG, a hormone found in the bodies of pregnant women, the rabbit would display ovarian changes. The rabbit would then be killed to have its ovaries inspected, but the death of the rabbit was not the indicator of the results. Later revisions of the test allowed technicians to inspect the ovaries without killing the animal. A similar test involved injecting *Xenopus* frogs to make them lay eggs, but animal tests for pregnancy have been made obsolete by faster, cheaper, and simpler modern methods.



## Classifications

Rabbits and hares were formerly classified in the order Rodentia (rodent) until 1912, when they were moved into a new order Lagomorpha. This order also includes pikas.

### Order Lagomorpha

- Family **Leporidae**
  - Genus *Pentalagus*
    - Amami Rabbit/Ryūkyū Rabbit, *Pentalagus furnessi*
  - Genus *Bunolagus*
    - Bushman Rabbit, *Bunolagus monticularis*
  - Genus *Nesolagus*
    - Sumatran Striped Rabbit, *Nesolagus netscheri*
    - Annamite Striped Rabbit, *Nesolagus timminsi*
  - Genus *Romerolagus*
    - Volcano Rabbit, *Romerolagus diazi*
  - Genus *Brachylagus*
    - Pygmy Rabbit, *Brachylagus idahoensis*
  - Genus *Sylvilagus*
    - Forest Rabbit, *Sylvilagus brasiliensis*
    - Dice's Cottontail, *Sylvilagus dicei*
    - Brush Rabbit, *Sylvilagus bachmani*
    - San Jose Brush Rabbit, *Sylvilagus mansuetus*
    - Swamp Rabbit, *Sylvilagus aquaticus*
    - Marsh Rabbit, *Sylvilagus palustris*
    - Eastern Cottontail, *Sylvilagus floridanus*
    - New England Cottontail, *Sylvilagus transitionalis*
    - Mountain Cottontail, *Sylvilagus nuttallii*
    - Desert Cottontail, *Sylvilagus audubonii*
    - Omilteme Cottontail, *Sylvilagus insonus*
    - Mexican Cottontail, *Sylvilagus cunicularis*
    - Tres Marias Rabbit, *Sylvilagus graysoni*
  - Genus *Oryctolagus*
    - European Rabbit, *Oryctolagus cuniculus*
  - Genus *Poelagus*
    - Central African Rabbit, *Poelagus marjorita*
  - Three other genera in family, regarded as hares, not rabbits



Eastern Cottontail (*Sylvilagus floridanus*)

## References

- [1] Katherine Quesenberry & James W. Carpenter, *Ferrets, Rabbits, and Rodents: Clinical Medicine and Surgery* (3rd ed. 2011).
- [2] <http://www.bio.miami.edu/hare/vision.html?1>
- [3] "Feeding the Pet Rabbit"
- [4] Dr. Byron de la Navarre's "Care of Rabbits" Susan A. Brown, DVM's "Overview of Common Rabbit Diseases: Diseases Related to Diet"
- [5] Tynes, Valarie V. *Behavior of Exotic Pets* (<http://books.google.com/books?id=kPFW95tjKpQC&lpg=PA70>). Wiley Blackwell, 2010, p. 70
- [6] Davis, Susan E. and DeMello, Margo *Stories Rabbits Tell: A Natural And Cultural History of A Misunderstood Creature* (<http://books.google.com/books?id=ZCS5yfJ7NAEC&lpg=PA27>). Lantern Books, 2003, p. 27.
- [7] "40 Winks?" Jennifer S. Holland, *National Geographic* Vol. 220, No. 1. July 2011.
- [8] Animal Lifespans (<http://web.archive.org/web/20060427184844/http://www.tesarta.com/www/resources/library/lifespans.html>) from Tesarta Online (Internet Archive)
- [9] The Life Span of Animals (<http://www.sonic.net/~petdoc/lifespan.htm>) from Dr Bob's All Creatures Site
- [10] *The Private Life of the Rabbit*, R. M. Lockley, 1964. Chapter 10.
- [11] House Rabbit Society (<http://www.rabbit.org/faq/sections/aggression.html>)
- [12] 'Traditional Moroccan Cooking, Recipes from Fez', by Madame Guinaudeau. (Serif, London, 2003). ISBN 1-897959-43-5.
- [13] Sell, Randy Rabbit (<http://web.archive.org/web/20100126131949/http://www.ag.ndsu.edu/pubs/alt-ag/rabbit.htm>). North Dakota Department of Agricultural Economics.
- [14] Brian Morris, *The Power of Animals: An Ethnography*, p. 177 (2000).
- [15] Ellis, Bill: *Lucifer Ascending: The Occult in Folklore and Popular Culture* (University of Kentucky, 2004) ISBN 0-8131-2289-9

## Further reading

- Windling, Terri. *The Symbolism of Rabbits and Hares* (<http://www.endicott-studio.com/rdrm/rrRabbits.html>)

## External links

- American Rabbit Breeders Association (<http://www.arba.net/>) organization which promotes all phases of rabbit keeping
- House Rabbit Society (<http://www.rabbit.org/>) an activist organization which promotes keeping rabbits indoors.
- RabbitShows.com (<http://www.rabbitshows.com/>) an informational site on the hobby of showing rabbits.
- The (mostly) silent language of rabbits (<http://www.muridae.com/rabbits/rabbittalk.html>)
- World Rabbit Science Association (<http://world-rabbit-science.com/>) an international rabbit-health science-based organization
- The Year of the Rabbit (<http://www.life.com/image/first/in-gallery/55521/the-year-of-the-rabbit#index/0>) – slideshow by *Life magazine*
- House Rabbit Society- FAQ: Aggression (<http://www.rabbit.org/faq/sections/aggression.html#basics>)

# Article Sources and Contributors

**Rabbit** Source: http://en.wikipedia.org/w/index.php?oldid=577101188 *Contributors:* \*Kat\*, .V., 1084theman1084, 12snyder, 1exec1, 1hd2, 21655, 28421u2232nfencenc, 34joey, 52 Pickup, 7&6=thirteen, A-giuam, ADM, Astogie, Aaron Schulz, Aaron Walden, Aasmith, Abigail-II, Abolen, Academic Challenger, Accurizer, Ace micken, Act333, AdamDobay, Admiral06, Aesopos, Afim, Ahc, Ahoerstemeier, AirRaven, Airplaneman, Ak2431989, Akaabc, Akamad, Alan Liefthing, AlanWolfe, Alansohn, Alasdair, AlbertEinstein1939, Aleverde, Alex Law, Alex.muller, Alexfag, AlexiusHoratius, Alexkerrigan, Alextrevention006, Allieson321, AltiusBimm, Alvaro, Alveolate, AlysTarr, Ambo100, Amitch, AmongDarkness, Amosyos2, Amp71, Am1018, Amtrakfan4, Anaxial, Anclation, Andorka, Andrensal, Andrewrp, Andy, Andy t1 469, Antandrus, Antari, Anther, Apocrita, Aranae, Arctic.gnome, Argr, Arikk, Arjun01, Arpingstone, Arsenalking18, Artem Kramin, Arwel Parry, Ashley Pomeroy, Ashley Y, Asklepiades, Astronautics, Aspercoollerson, Austin Stei, Austin Steinbach, AvicAWB, Aviccennisas, Awien, AxellJ, Az1568, B, BD2412, BMG, BMKane, BNSF1995, BSwork, Barefact, Bastiche, Bbxt, BcJordan, Bclaudew3, Bdiscoe, Bdragon, Beach drifter, Beeblebrox, Begoon, Bendon0, Bennylin, Bento00, Berean Hunter, Bernhard Bauer, Bessie2b, Betteruserame, Bhadani, Bhaskar Bhatt Joshi, Bidabadi, Big Brother 1984, Billy goose, Birthy, Biscottichocolat, Bissinger, Bjing2001, Bjlock, Bkell, Bkonrad, Black Kite, Blahblah098765, Blahblip, Blaireaux, Blanche of King's Lynn, Blaxthos, Blistex21, Blood Red Sandman, Bloodofox, Bloodshedder, Blue520, Bob98133, Bobisbob, Bobjimjoe, Bobo The Ninja, Bobo192, Bogey97, Bongwarrior, BostonMA, Bourgaena, Brambleberry of RiverClan, Brambleshire, Brammers, Brandon13830, Brian G. Crawford, Brian0918, Brjaga, BrokenSegue, BruinCub, Bryan Derksen, Bsroiaadn, BuBZ, BuickCenturyDriver, Bulkybob, Bunnynob, Burntsauce, Butterscotch, Byron755, C'est moi, C.Fred, C45207, CKA3KA, COMPFUNK2, CPMcE, CSeals, Cabbister, Cadill, Cahk, Calathan, CambridgeBayWeather, Camyoung54, Can't sleep, clown will eat me, CanadianLinuxUser, CandaceFrazee, Canis Lupus, Cantus, CapitalR, Capricorn42, CardinalDan, Caribbean H.Q., Carnby, Carolinchina, Charles, Caster23, CatWomen402, Catamorphism, Catgut, CatherineMunro, Cbellamy, Cbcwaj, Ccacsmss, Cecil29000, Cgoodwin, Chahed Riens, ChaneyDante, Chanticleer, Charles Matthews, CharlesC, CheeseCashmere, Chekechain, Chinasaur, Chinasaur, Chip-chip, ChrKo, Chr7 73, Chris Roy, Chris huh, Chris the speller, ChrisJB, Christk02, Chriswiki, Chubbles, Ciderbarrel, Circeus, Cliff12345, ClocworkSoul, Closedmouth, Cmckit, Cmglee, Coasterlover1994, Cobaltbluetony, Cocoaгуy, Coffee, Colonies Chris, Comme le Lapin, CommonsDelinker, CompRhetoric, Complich8, Conversion script, Cool3, Coolman1250, Corgi2, Corvun, Corvus cornix, Crimson Mask fo sho, Crisco 1492, Csigabi, Cubedude04, CupPup, Cyril Uberfuzz, Cыrus, CZarNick, D-Notice, DARTH SIDIOUS 2, DJ Bungi, DVD R W, Dabomb87, Daeron, Damian Yerrick, Dan Stewart 1992, DanMatthewsUK, Danga, Daniel C. Boyer, Daniel Lawrence, Daniel5127, DanielCD, Danilot, Danjwright, Danny Yee, Danny1232005, Dante Alighieri, Dark Shikari, Darkanj1, Darkwolf021, Darrenrichardson, Darth Stabro, Dasani, Dasonix, Dave rabbit, David Alan Sherwood, David Edgar, David Levy, David Stewart, David Underwood, DavidTurnbull, Dd728631, DeLarge, DeNoel, Debesser, Deku-Scrub, Delldot, Dellexxx, Delonnette, Delnosn83, DerHexer, Dffgd, Dgies, Dglynch, Dgosselt, Digitalme, Dina, Dirtyaldo, Discospinner, Dmuaas, Dmp348, DoeWatson42, Docsophist, Dodiad, Dog-crap, Dom Kaos, Donreed, Dori, Down under87, Dr.frog, Dr.queso, DrChrissy, DrGaellon, Dreadstar, Dream Focus, Dyingtickles, Dyspepsion, Dysprosia, Dzubint, E Wing, E235, EMan32x, Eskog, Earl CG, Earlypsychosis, EarthPerson, Eco ant, Ed Brey, EdNeave, Eddiedog, Ediswhite, Editor182, Eeasternbunny, Eeekster, Eggdude50770, Egil, El C, Electricmoose, Elf, ElinorD, Elipongo, Ellie99, Elliskev, Ellsworth, Emcdonough, EmilyMlillion, Emmett5, Emoxkitty, Endaction, Endofskull, Enno, Enisiform, Enzo Aquarius, Eprb123, Epoch c90, Equazcion, Erianna, Erolas, Erpbridge, Etafly, Ettlz, EurekaLott, EvelinaB, Evertime, Everyking, Explicit, ExportRadical, FF2010, FMAFan1990, Fan-1967, Faradayplank, Fastlysock, Feinoaha, Femto, Femces and windows, Feureau, Feydey, Figaro, Ffill, Finbar Canavan, Fir0002, Firenacrowdedtheater, Firsform, FisherQueen, Fishnet37222, Fishstenicne, Flam2006, Flewis, Flibjib8, Flowerspotman, Fluffy-girl123, FluffyBeer, Flyguy649, Foxcowpat, Frankie, Freakyweirdos2, Fred Bauder, Freeridr, Frehley, FrepjySpang, Fricke04, Fudgey bun, Funstuff2, Fvw, Fyyer, Fzero, G Clark, G.Tuli '99, GB fan, GTBacchus, Gabriel Kielland, Galmicmi, Galzigler, Gareth Owen, Garmiester, Gary King, Gbleem, Gene Nygaard, Generalnonsensemic, Gengeen, GerardM, Gerrish, Gerry Ashton, Gidobn, Gigemag76, Gilliam, Gilo1969, Giortegni, Givadanger, Gizzeygremlin06, Glenn, Glogger, Gmosaki, Gnganarra, Kat, Gogobono, Gogo Dodo, Googlemeister, Gracenotes, Grafen, Graham87, Greasymen, GregorBananzan, Gregory j, Griffinofwales, Grim23, Grutter, Gunter, Gurch, Gurchz, Gurchzilla, Guru-45, Guzuta, Gwernol, Gzuckier, H230, H2fanclub, H2g2bob, Haakon, Hadal, Haein45, Haham hanuka, Hairy Dude, HalfShadow, Halomaste19, Hamiltondaniel, HammerHeadHuman, Hanchi, Hardyplants, Hazel-roo, Hd83, Headbomb, Healy69911, Heegoop, Hello44567, Hephaestos, Hergisiwi, Hermitage, Heron, Highflyeraj, Hoaglatr, Hongooi, Hontogaichiban, Hooppy, HopsyTurvy, Hottentot, Howdidyoudieinhongkong?, Hraefen, Hu12, Husndon, Hut 8.5, Hvn0413, Hydrosen Iodide, I-Should-Coco, IRP, IW.HG, Ian Dunster, IdLoveOne, Identity, Ieneach fan 'e Esk, Ig8887, Ihoeyc, Illxesquid, Ilmari Karonen, Imaninjapirate, Infmatz, Infopediagirl, Ingui, Iridescent, Isfisk, Isxfid64, Izzytwig, J. Van Meter, J.delaney, JDoorjam, JFreeman, JHUnterJ, JK23, JQF, JThorburn, JWSchmidt, Jaknoose, James086, JamesWatson, Jameschristopher, Jarble, Jauhienij, Jaxl, Jaxmindt, Jaydiem, Jayunderscorezero, Jcrock1987, Jdflf, JeepdaySocK, Jeff G., Jehesquatl, Jengod, Jenks, JennyRad, Jennyoynred, Jerem43, Jezyzyxxxx, Jh51681, Jim Henry, Jijii, Jupiter100, Jkelly, Jkelly, Jkljn, Jlaramee, Jmrowland, Jni, JoanneB, Jrodiosever, JodyB, Joelmills, Joelr31, John, John Cline, John Hill, John Reaves, John254, JohnCD, Johnleemk, Jonel, Jonny disturbed, Jordanjudd2, Joseph Solis in Australia, Josh Grosse, JoshHolloway, JoshRaspberry, Joshua Scott, Joshuamartin1998, Joyous!, Jredmond, Jrobinson5, Js1234567890, Jsnel, Jszaack, Julian Mendez, Jusjeh, JustAGal, JustinHagstrom, Jóna Þórunn, KP-TheSpectre, Kaldari, Kappa, Karauma, Kat, Katalaveno, Kate, Kateelkshetra, Katyptic, Khdank71, Kbh3rd, Kcharles, Kchaldon1970, Keegan, Keilja, Kejoxen, Kerani, Kersti Nebelsiek, Kf4byd, Gcreensted, Khukri, Kielbasa1, Kilbiam, King of Hearts, Kingpin13, Kinitawowi, Kiore, Kirballs, Kjoonlee, Kku, Klausness, Kmkoksy, Knoma Tsujimai, KnowledgeOfSelf, Kole chan13, Kompar, Kotenshu, Kotjze, Kowey, Krazymike, Krellis, Krsont, KumorifoX, Kungfudand, KurtRaschke, Kuru, Kuyabribr1, Kw3kjh11, Kwamikagami, Kyorosuke, KyraVixen, LHOON, Lanoitarus, Le Anh-Huy, Le Fou, Leafyplant, Lee M, Leedeth, Lyeclarke, Lego3400, Leptictidium, Less Than Free, Leuko, LeyteWolfcr, Lifeyui, Lights, Lilmissrusko, Lime-boy, Linkmaster, Lithpipperilot, LittleOldMe, Lkinkade, Llull, Lo2u, Lockesdonkey, Logan, Logogurl, Lollyopter, LoneStarWriter82, Lord Manley, LordAmeth, Loren.wilton, Louzzzz93, Lpgeffen, Lucky 6.9, Lucyin, Luna Santin, Lupin, Lupinoid, Lupo, Luvulikewater, MATT FRANKLIN GEORGE, MBisanz, MCAk47, MER-C, MK8, MKar, MPF, Magister Mathematicae, Mailer diablo, Majorly, Malo, Mannixmccally, MaorigrPimp, MarB4, Mardan, Marek69, MarkTBS, MarsRover, Marumari, Mary82511, Marykotso, Masturbin, Matahari Pagi, Materialscientist, Matt Gies, Matticus78, Mattsillato, Matzah, Maurog, Maverickandjojo, Mawich, MaxDURDURDUR, Maxis ftw, Maxum255, Mboverload, Mdebets, Me and, Meelar, Megan.rw1, Mego'brien, Melon247, Melsipan, Memo232, Merkurix, Metabolix, Metavurt, Mezo, Mgiftanteus1, Mhking, Micagi, Michaelrcurtis, MickWest, MightyWarrior, Mike Rosoff, Mikelj, Mikemoral, Mikewoodld, Milliondollarniki, Mindgiver, Mimpop, Miraculousrandomness, MistyJane, Mithridates, Mme des Lapins, Mmki, Modemac, Modulatum, Momannb6, Montana's Defender, Mopar magic, Moreschi, Morn, Movingimage, Mr Stephen, Mr Lefty, Mrs.EasterBunny, Mrs0718, Msandersen, Muddyphalli, Mustafickertafin, Mutableye, Muya, Mwanner, Mwing, Myanw, Myhouserabbit, N4nojohn, NShadow1993, Nadavspi, Nafed, Nakon, NamFohyr, Namrbindk, Narutofan1324, Nathy2389, Naturalrabbitfood, Navaljoke, NawlinWiki, Ncmvocalist, Nehrams2020, Neitherday, Nellythumper, NeoChaosX, Neparis, Neutrality, NewEnglandYanke, Ngebendi, Ngayeùn Quốc Việт, Niayre, Nicolewaserhexx, Nihiltes, Nik42, Nino89, Nisshkid64, Nivix, Njean, Nlevitt, No Guru, Nonmonomanac, Noretallydavid, Novjunulo, Npnunda, Nuggetboy, Nyh, Nyttend, Ocean Shores, Octane, Odoritsuzuke, Ohnoitsjamie, Okapi, Olivier, OllieFury, Omegaboblet, Omgiamdead, Onorem, Opelio, OrangeAipom, Orfen, Oswald Vitor, Owen, OwenX, Owiebut, Owlgorithm, Oxyiron83, P. S. F. Freitas, P.B. Pilhet, PGWG, PTSE, Paladin91, Pamela775, Pandamanstan, Pass a Method, Patstuat, Paul Barlow, Paulyeche, Pcb21, Pdcocok, Pedrono, Pekinenis, Penfold1969, PericlesofAthens, Persian Pot, Peruvianllama, Pfalstad, Pkg, Phaedriel, Pharaoh of the Wizards, Phasmatixnox, Phi beta, Philippe, PhnxFyreG, Phoebe, Phoenix Hacker, Picus viridis, PierreAbbat, Pink fuzzy slippers, Piratemonkies, PlatypaeArchcow, Pnkrockr, Pokadot, PoliticalJunkie, Polkapunk, Polkawells, Polluxian, Pooooooouoo, Poopyscoopy, Prashanthns, PreRaphaelite, PrestonH, Privatemusings, PrometheusX303, Propaniac, Proxima Centauri, Pschemp, Pseudomonas, Psmith, PsychoJosh, Pulsar06, Qtpi123, Quackdave, Queerwiki, Quintote, Quizmaster808, Qwerfda1234, Qwfp, R.hegaard, RFBailey, Rabbit Judge, Rabbit4bunchin, RadioBroadcast, Ran, Rapparee71, Rattis1, Raven4x4x, Ray Chason, RazorICE, Rcjewsbury, Rcsprinter123, Reach Out to the Truth, ReadQ, Recognizance, RedWolf, Redthoreau, Reinout, Remis master, Res2216firestar, RetiredUser2, RexNL, Rgoodermote, Rh2431, Rhubarbandcustard, Rhysoverton, Ricegator, Rich Farmbrough, Richardcavell, Richhoncho, Rchiekim, Ridethabunny, Risker, Rissza, Rivertorch, Rjsterling, Rjwilmsi, Rklawton, Rmhermen, Roadnottaken, Rocastelo, Rocket71048576, Rodasmith, Rodan18, Ross Hill, Rouge2, Rqppwdkjals, Russia Moore, Rutherfordin1, Ryan, Ryan Paddy, S3000, SGGH, SJP, SNIyer12, STLocutus, Sak05, Salvio giuliano, Sam Hocevar, Sam Korn, Samir, Samuel Blanning, Samy23, Sanders muc, Sango123, Santryl, Saric, Schellack, Schmuchu, Scuirinae, Scwlong, Sean Whittton, Seahpote, Seb13, Seb26, Segle, Selket, Semperf, Sengakang, Serendipity15, Serendipodous, SeventeenTurtle, SeventhHell, Sexxy babe, Sharkface217, Sheograah, Shii, Shoaler, Shoshonna, Shrine of Fire, Sidasta, Sidious1701, Sidwarren, Sigmalmdt, Silly rabbit, Silverbullet527, SimonArlott, Sintaku, Sirtrebuchet, Sketch-The-Fox, Skittle, Skizzik, SkyViewOrphanage, Slash Firestorm, SmartGuy Old, Smjg, Smohammed2, Smokizzy, Snowmanradio, Snowwolf, Sohqz, Solebanana, Solitude, Sonjaa, Sontier, SoonerBunny, SpaniardGR, SparrowsWing, Spartanpenguin800, SpazKitty, Spectre1978, Spellmaster, Spencer, Spinningspark, Spiritualism, Spliffy, SpuriousQ, Sretosf, Srikeit, Sprnor, St3f, Steel, Stemonitis, Stephenb, SteveSims, Steven Walling, Stevenmatter, Stiivyn, Stormsintheskye, Strolls, StaffOfInterest, Stwalkerster, Sukiari, Summer Song, SummerPhD, Sunnybanks, Susan Davis, Sven Manguard, Swimmyfish72, SylvieHorse, TFOWR, TNTfan101, TableManners, Takeaway, Talakissmwa, Tangerines, Tangotango, Tannin, Tarquin, Tasc, Tawker, Tbhotch, Templarion, Template namespace initialisation script, Terence, Thadius856, Thatonechickfromm, The Baroness of Morden, The Evil Spartan, The Patroller, The Thing That Should Not Be, TheDJ, TheGypsyPunk, TheJosh, TheRedPenOfDoom, Thehelpfulone, TheIb4, Theoriginalatms, Thepexliven, Therefore, Think outside the box, Thumperward, Tickkid, Tide rolls, TigerShark, Tim Q. Wells, Timberframe, Timurite, TinyMark, Tohd8BohaituGh1, Tom harrison, Tonywalton, TotoBaggins, Tpbardbury, Travelbird, TriangleBelow, Trogдор55, Truthsleuther, Ttpublic, Ttwaring, Tubezone, Tuckerchambers, Tuffs, Turtdurdurd, Turnstep, Twang, Tyler, Ucanlookitup, Ucuha, Udders3, Ukexpact, Umm101101, Un-bias, Underbar dk, UninvitedCompany, UrIpa5, Utcursch, UtherSRG, VK35, Vandal B, VanWimsey, Vanished User 4517, Vanished user g454XxNpUVWvxzlr, Vanished user sf9j0923jrpjotj3rf, Vanished user sf9j0923kj094, Vary, Veltzeh, Vik-Thor, Vilcxjo, Vinny de wenzel, Virek, Virtual Avatar, Vrenator, WIMIA, Wackymax, WadeSimMiser, Waker913, WalterJKin, Wassname, Watcharakorn, WeelilJimmy, Welcome7ones, Weseposo, Wfhuocck, Wheasley, Whereizebn, Whirling within, WhisperToMe, Whitefire45108, Whouk, Whqp, Why Not A Duck, Wik, Wiki alf, Wikibohf, Wikimachine, Wikisarrah, William Avery, WilliamB, Willingham, Willotter, Wilt, Wimt, Wizardman, Wmahan, WolfmanSF, WolfmankurF, Woofy13457, Woolhookitty, WormRunner, Wrasse, Wtmitchell, X ibetyoulookgoodonthedancefloor x, XXkindofkrazyXX, Xaosflux, Xenobiologista, Xerux, Xiahou, Xnuala, Xxellie1lx, Xxkindofkrazyxx24, YBeayf, Yamaguchi先生, Yamamoto Ichiro, Yath, Ybbor, Yekrats, Ykhwong, Ylem, Yoshirules389, Yossi842, Yousoo, Zackpratt, Zaku kai, Zoogirlo5, Zap Rowdower, Zapvet, Zawersh, Zimmygirl7, Zudduz, Zundark, Zzyzx11, Zé da Silva, Ævar Arnfrjó Bjarmason, 123ℲℲℲℲℲℲ, රචනා රැස්වීම්, ৯৯৮৮৮৮৮৮৮৮৮৮, 1890 anonymous edits

# Image Sources, Licenses and Contributors

**file:Rabbit\_in\_montana.jpg** Source: http://en.wikipedia.org/w/index.php?title=File:Rabbit\_in\_montana.jpg License: Creative Commons Attribution-Sharealike 3.0 *Contributors:* Larry D. Moore

**File:Rabbit burrow entrance.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_burrow\\_entrance.jpg](http://en.wikipedia.org/w/index.php?title=File:Rabbit_burrow_entrance.jpg) *License:* Public Domain *Contributors:* Brammers

**File:Cmglee\_Horniman\_rabbit\_skin\_skeleton.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Cmglee\\_Horniman\\_rabbit\\_skin\\_skeleton.jpg](http://en.wikipedia.org/w/index.php?title=File:Cmglee_Horniman_rabbit_skin_skeleton.jpg) *License:* Creative Commons Attribution-Sharealike 3.0 *Contributors:* Cmglee

**File:European Rabbit.OGG** *Source:* [http://en.wikipedia.org/w/index.php?title=File:European\\_Rabbit.OGG](http://en.wikipedia.org/w/index.php?title=File:European_Rabbit.OGG) *License:* Creative Commons Attribution-Sharealike 3.0 *Contributors:* T.Voekler

**File:Rabbit 1hr old gnangarra.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_1hr\\_old\\_gnangarra.jpg](http://en.wikipedia.org/w/index.php?title=File:Rabbit_1hr_old_gnangarra.jpg) *License:* unknown *Contributors:* Gnangarra

**File:Rabbit nest.JPG** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_nest.JPG](http://en.wikipedia.org/w/index.php?title=File:Rabbit_nest.JPG) *License:* Creative Commons Attribution-Sharealike 2.5 *Contributors:* Rklawton

**File:Baby rabbit.JPG** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Baby\\_rabbit.JPG](http://en.wikipedia.org/w/index.php?title=File:Baby_rabbit.JPG) *License:* unknown *Contributors:* Ksd5

**File:Rabbit In Snow.JPG** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_In\\_Snow.JPG](http://en.wikipedia.org/w/index.php?title=File:Rabbit_In_Snow.JPG) *License:* Creative Commons Attribution-Sharealike 3.0 *Contributors:* User:G.Tuli '99

**File:Whiterabbit86-300.jpg** *Source:* <http://en.wikipedia.org/w/index.php?title=File:Whiterabbit86-300.jpg> *License:* Public Domain *Contributors:* Robyn Shaw, Spring Valley Laboratories, Inc.

**File:Rabbit meat.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_meat.jpg](http://en.wikipedia.org/w/index.php?title=File:Rabbit_meat.jpg) *License:* Public Domain *Contributors:* Garitzko

**File:Rabbit pelt tanned.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_pelt\\_tanned.jpg](http://en.wikipedia.org/w/index.php?title=File:Rabbit_pelt_tanned.jpg) *License:* Creative Commons Attribution-Sharealike 3.0 *Contributors:* User:Wolfmankurd

**File:Australian rabbit, NSW from The Powerhouse Museum Collection.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Australian\\_rabbit\\_NSW\\_from\\_The\\_Powerhouse\\_Museum\\_Collection.jpg](http://en.wikipedia.org/w/index.php?title=File:Australian_rabbit_NSW_from_The_Powerhouse_Museum_Collection.jpg) *License:* Public Domain *Contributors:* Au1, Docu, Fæ, Privatemusings

**File:Rabbit skins.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:Rabbit\\_skins.jpg](http://en.wikipedia.org/w/index.php?title=File:Rabbit_skins.jpg) *License:* Public Domain *Contributors:* Brass razoo, Cgoodwin, Kramer Associates, Kuerschner, Kürschner, Man vyi, Mickey-B, Salix, 1 anonymous edits

**File:UVic rabbits.jpg** *Source:* [http://en.wikipedia.org/w/index.php?title=File:UVic\\_rabbits.jpg](http://en.wikipedia.org/w/index.php?title=File:UVic_rabbits.jpg) *License:* Creative Commons Attribution-Sharealike 3.0 *Contributors:* Arctic.gnome, PigeonIP

**File:MyxoRabbit.JPG** *Source:* <http://en.wikipedia.org/w/index.php?title=File:MyxoRabbit.JPG> *License:* Creative Commons Attribution 2.5 *Contributors:* Original uploader was ChrisJB at en.wikipedia

**File:jumpingRabbit.JPG** *Source:* <http://en.wikipedia.org/w/index.php?title=File:JumpingRabbit.JPG> *License:* Public Domain *Contributors:* Hardyplants at en.wikipedia

# License

---

Creative Commons Attribution-Share Alike 3.0  
[//creativecommons.org/licenses/by-sa/3.0/](http://creativecommons.org/licenses/by-sa/3.0/)