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## Anatomy for sculptors pdf

Dog anatomy varies more within its species than in any other animal. Despite these differences, dogs all share identical bone and muscle structure. They also all have a circulatory system that transports blood, a respiratory system that takes in oxygen, and a digestive tract that digests nutrients. A dog also has powerful muscles, a strong cardiovascular system enabling speed and endurance and sharp teeth typical of all predators.The domestic dog, as we know it today, is the result of thousands of years of selective breeding. But despite huge differences in physical appearance, all dogs are the same. Dogs come in a variety of sizes. Canis (lupus) familiaris ranges in size from the miniature chihuahua to the imposing great dane, which can be the size of a lioness. The largest dog on record is a great dane that measures 7'4" in length and 155 pounds in weight. The smallest is a Chihuahua that stands 4 inches in height and weighs 1.5 pounds. The giant breeds like great danes, Newfoundlands and St.Bernards typically can weigh as much as 200 pounds. Miniature breeds such as chihuahuas, Yorkshire terriers, and Shih Tzus usually weigh between 5 and 10 pounds. Erikklam / Getty Images The dog is the only animal whose skull has three different shapes. Generations of breeding practices have led to enormous differences in physique and morphology among dog breeds. The skull is composed of 2 parts, the neurocranium and the facial skeleton, which are also composed of several bones. The neurocranium surrounds and protects the dog's brain, and the facial skeleton encases the dog's face. Brachycephalic dogs feature a broad, compact head that is found in breeds like bulldogs, Shih Tzus, and Boston terriers. While dolichocephalic breeds like Salukis, Afghan hounds and collies have long, narrow bone structures. While humans navigate their world using sight, dogs are guided by smell. A dog's sense of smell is a million times more sensitive than a human's, and their nasal cavities contain 220 million scent receptors, compared to 5 million in humans. Dogs, accordingly, have a large proportion of their brain capacity devoted to analyzing smells. This area is 40 times larger than a comparable section in the human brain. A dog's sense of smell is so acute and sensitive that it is able to detect scents in parts per trillion. Luchiano / Getty Images The domestic dog is a direct descendant of the grey wolf. Its skeletal structure consists of 319 bones which provide the support necessary for running, sprinting, and jumping. Like most predators, a dog has powerful muscles and small, compact feet, capable of propelling him forward when pursuing prey. For this reason, their hind legs are firm and relatively rigid, while their front legs are flexible and loosely attached to the torso. Dogs also have disconnected shoulder bones enabling them to take longer strides. Dogs don't perspire through their skins as humans do. Their coats provide an insulating barrier between them and extreme temperatures that keep them warm in winter and cool in summer. However, dogs are far better at conserving heat than they are at cooling themselves. Counter to popular belief, dogs do have sweat glands which are situated in the pads of their feet. But dogs don't rely on sweating to regulate temperature. Panting is a dog's primary means of lowering body temperature. He does so by taking short, rapid breaths which evaporate water through his mucous membranes. suppixz / Getty Images A dog's coat can be one of two kinds. A double coat which consists of a topcoat made up of stiff, water repellent guard hairs that protect the dog's undercoat. And an undercoat that is soft and downy with shorter fur. Dogs with a single coat have only one layer of hair: the topcoat. Dogs' coats are also often counter-shaded. This is a form of natural camouflage that conceals animals. A counter-shaded animal will have dark coloring above and light coloring below. taviphoto / Getty Images Dogs have a faster metabolism than humans. Their basic bodily processes occur at a heightened rate, resulting in faster breathing, faster blood circulation, faster maturation, and a raised resting body temperature. This high metabolism, however, includes a shorter lifespan. As a general rule, a dog year is equivalent to 10 human years for the first two years and a to 4 human years after that. Researchers at the University of Gottingen have finally come up with a formula to calculate a dog's age. They have discovered that for every 4.4-pound increase in weight, a dog's lifespan decreases by one month. Recent research on dogs and wolves has revealed that a dog's facial anatomy has changed to appeal to humans. Researchers found that both species shared the same facial musculature, except above the eyes. Dogs have a powerful muscle above the eye that enables them to raise their eyebrows intensely. They have also been found to use this expression largely among humans, suggesting that the behavior is intentional and for human benefit. It is thought that this imploring expression has held such favor with humans over thousands of years of selective breeding, that it has encouraged dogs to evolve a more human facial anatomy. Nastasic / Getty Images In humans, sense of touch is mostly connected to hands and fingers. A dog feels his way around his world with his snout. His whiskers are able to detect even the smallest changes in air currents, providing information on objects in the vicinity. This assists dogs in avoiding danger in the dark. The end of each whisker contains a large number of touch-sensitive nerves that send sensory messages to the brain, at even the slightest motion. amandafoundation.org / Getty Images It is a common myth that dogs see only in black and white. Dogs do have color vision, just not the same kind as humans. A dog's eyes are only able to process the colors blue and yellow, and they cannot distinguish between red and green. In bright light, their vision is slightly blurred, but their superior night vision can compensate for this. They are also able to see a wide 250-degree view of their immediate environment. Which, together with their ability to see in the dark, makes their eyes perfectly suited for hunting prey. From the latest anatomy news, treatments and therapies, inspiring patient stories, to expert advice, we're here to help you live your healthiest life every day. Facebook Twitter LinkedIn Pinterest Eyes Anterior chamber. The front section of the eye's interior where aqueous humor flows in and out, providing nourishment to the eye.Aqueous humor. The clear watery fluid in the front of the eyeball.Blood vessels. Tubes (arteries and veins) that carry blood to and from the eye.Caruncle. A small, red portion of the corner of the eye that contains modified sebaceous and sweat glands.Choroid. The thin, blood-rich membrane that lies between the retina and the sclera and is responsible for supplying blood to the outer portion of the retina.Ciliary body. The part of the eye that produces aqueous humor.Cornea. The clear, dome-shaped surface that covers the front of the eye.Iris. The colored part of the eye. The iris is partly responsible for regulating the amount of light permitted to enter the eye.Lens (also called crystalline lens). The transparent structure inside the eye that focuses light rays onto the retina.Lower eyelid. Skin that covers the lower part of the eyeball, including the cornea, when closed.Macula. The central portion of the retina that allows us to see fine details.Optic nerve. A bundle of nerve fibers that connect the retina with the brain. The optic nerve carries signals of light, dark, and colors to a part of the brain called the visual cortex, which assembles the signals into images and produces vision.Posterior chamber. The back part of the eye's interior.Pupil. The opening in the middle of the iris through which light passes to the back of the eye.Retina. The light-sensitive nerve layer that lines the inside of the back of the eye. The retina senses light and creates impulses that are sent through the optic nerve to the brain.Sclera. The white visible portion of the eyeball. The muscles that move the eyeball are attached to the sclera.Suspensory ligament of lens. A series of fibers that connects the ciliary body of the eye with the lens, holding it in place.Upper eyelid. Skin that covers the upper part of the eyeball, including the cornea, when closed.Vitreous body. A clear, jelly-like substance that fills the back part of the eye. The vestibular labyrinth is the balance center located in the inner ear. About the size of a quarter, this delicate structure is made of three fluid-filled donut-shaped voids of bone called semi-circular canals, each jutting at a different angle from a central vestibule. (see figure) The Vestibular LabyrinthThe loops make up a clever system for measuring how the head is turning. Tiny sensory cells called "hair cells" sit on small saills that project into the fluid from the wall of each loop. Just as the coffee in a mug stays still as when the mug is rotated quickly, the fluid in the semi-circular canals lags behind when the head turns, bending the sail and hair cells. When bent, the hair cells send a chemical signal to nearby vestibular nerve fibers, which in turn notify the brain that the head is turning. Because the three semicircular canals in each ear sense rotation best for a different direction, the brain can combine signals from all canals to accurately measure head rotations in any direction.This information from the inner ear is very useful for keeping your eyes steady when your head is moving. When you are walking, running or driving, your vestibular system is constantly measuring head rotations and controlling eye muscles to as to turn your eyes left and up when your head turns right and down, etc. If this didn't work, your view of the road ahead would bounce and jitter so badly that you couldn't see well enough to drive. It is such a useful system that nature has maintained the structure of the vestibular system with very changes over millions of years of evolution. You have a vestibular system very similar to that of a cat, lizard, fish, frog or dinosaur.Unfortunately, the vestibular system is so reliable that your brain is thrown off when the system isn't working. In cases of Meniere's syndrome, benign positional vertigo, vestibular migraine, infections, tumors, or other vestibular disorders, the distorted input from a diseased vestibular system can give you and your brain an altered sense of motion. You might sense an illusion of movement ( vertigo), or you might notice "shifty" or blurred vision as your eyes attempt to follow head movements that aren't real. At best, this can be disconcerting; at worst, it can be severely disabling.

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