

Humane Society of Missouri

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Why Dogs Tilt Their Heads

You know the pose. You love the pose. The most photogenic, heartwarming, smile-generating canine pose...the head tilt. Dog owners are entertained by the upward turned face, curious eyes, and perky ears that accompany the cute canine head tilt when their dog hears an interesting sound.

Why do dogs cock their heads when they hear a strange sound?

Dogs have a keener sense of hearing than people do and can detect frequencies and sounds that escape us. But humans have an advantage over dogs in one regard: a person with normal hearing ability can detect a sound regardless of the direction from which it is initiated, while a dog's directional hearing is more limited.

The external human ear is engineered to pick up sound so efficiently that a person doesn't have to turn toward the sound to capture it. A person's ability to discern sound is not affected by whether it comes from the front, back, left or right so when someone calls you from behind, you don't have to pivot to hear him.

Not so with dogs. Dogs have ear flaps that partially or completely cover the ear canal and serve as a barrier to sound transmission so dogs have to change their position to optimize sound detection. Luckily, the canine ear flap (pinna) is movable so the dog can



make the necessary adjustment needed to focus on the exact location of the sound. Different breeds face different challenges. A German Shepherd's ear flap covers only the back side of the canal and limits the detection of sounds from the rear. A Cocker Spaniel has heavy ear flaps that entirely cover the ear canals and interfere with sound wave transmission from all directions.

How does head-tilting help with hearing?

To compensate for the interference of ear flaps, dogs perk up their pinnae and tilt their heads for optimum sound collection. If an interesting sound comes from the front, a dog cocks its head in the direction of the sound. If the sound comes from the rear, the dog may turn before tilting his head. If a sound comes from the side, he may not tilt at all because canine ears are located on the sides of the head and are already in a good position to pick up the sound waves.

Movable ear flaps also help a dog judge a sound's distance by determining the time difference between when the sound reaches the right vs. left ear. So basically, cocking the head and adjusting ear flaps helps the dog assess the location and distance of sound.

Why does my dog tilt his head when I am directly in front of him?

Sometimes dogs look at their owners attentively while tilting their heads and appear to absorb every word. Sound is captured by the external ear canal, funneled to the middle and inner ear, and then transmitted to the brain. The muscles of a dog's middle ear are controlled by the same part of the brain that controls facial expressions and head movements. So, when a dog cocks his head to the side he is trying to hear your words, understand what you are saying, and let you know that he is concentrating on you.

A dog tilts his head to show that he is engaged much the way a human would nod during a conversation to indicate that he is listening. Social dogs that enjoy human interaction usually tilt their heads more often to encourage the continuation of the conversation and prolong the human contact.

Does the head tilt help with communication in any other ways?

Moreover, dogs understand us by assessing not only what we say, but how we say it. They assess our facial expressions, eye movements, tone of voice, body language and inflection to translate human communications. To understand us, dogs must clearly see our faces. Dr. Stanley Corren suggests that another reason dogs cock their heads is to simply see us better.

Dr. Corren proposes that dogs have difficulty seeing a person's entire face because their long muzzles get in the way. To grasp how a long snout interferes with vision, hold a fist to your nose and look around. You have to turn your head to see an object directly in front of you. Our canine friends do the same thing. They tilt their heads to work around their interfering muzzles and improve their visual perspective. That cute canine head tilt actually broadens the range of vision and allows a dog to more clearly see a person's face. Seeing our facial expressions improves communication.

It stands to reason that dogs with flatter faces like Bulldogs and Boston Terriers may tilt their heads less since their short noses don't get in the way as much as long muzzles. To test this theory, Dr. Corren conducted a survey of 582 pet owners. Of the dogs involved in the survey, 186 had short muzzles. Findings showed that 52% of short–nosed dogs tilted their heads when spoken to as compared to 71% of long–nosed dogs. So, that cute canine head tilt may also be a result of physical conformation.

When does the head tilt mean a medical problem?

A consistent head tilt that is not associated with communication may indicate a medical problem. Infections of the external ear canal caused by bacteria or yeast may cause pain, itching, and the occasional head tilt. Middle ear infections are more serious and are often accompanied by a more persistent head tilt. Holding the head to the side may also indicate a neurological abnormality. If a dog cocks his head when there is no auditory stimulation, he needs to see a veterinarian.

Do we encourage this behavior?

We've acknowledged that there are several factors involved in the canine head tilt and that it is cute regardless of the initiating cause. We can also agree that it's human nature to respond to the "cuteness" with positive reinforcement. When dogs cock their heads, we give them a good pat, speak in a kind tone, and smile. So, another reason that dogs cock their heads is because we teach them to do it by providing positive reinforcement. Our response to the head tilt encourages repetition, so the more we gush over the cute canine head tilt, the more we get to enjoy it!

This client information sheet is based on material written by: Lynn Buzhardt, DVM
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