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## What color are william afton's eyes

HomeEye CareVision Resources | En Español By Amy Hellem; reviewed by Gary Heiting, OD Brown eyes are more common worldwide than any other eye color. But the prevalence of brown eyes varies significantly with geography. Most people living in Africa and Asia have dark brown eyes. Dark brown eye color also is very common in the Middle East. In Europe, the prevalence and shade of brown eyes vary significantly from region to region.In the United States, an estimated 41% of the population has brown eyes — including dark brown eyes, light brown eyes and honey brown eyes. If you include hazel eyes (sometimes called hazel brown eyes), the prevalence is even higher.But a high prevalence of brown eye color doesn't mean all brown eyes look the same. There is plenty of variation in the appearance brown eyes (even within a given shade) from person to person.READ MORE about the most common eye colors.What causes brown eyes?Even though there are different eye colors, including less common blue eyes and green eyes, there is only one type of eye color pigment. The amount of this pigment (called melanin) in the iris of your eye determines the color of your eyes.Eyes with very little melanin in the iris are blue. Eyes with a bit more melanin are green, hazel or light brown. And those with a high concentration of melanin are medium or dark brown.Eye color is an inherited trait. But predicting eye color from your family tree is more difficult than you might expect. In fact, there is evidence that up to 16 genes can influence eye color. So it's very possible for children in the same family to have different eye colors — including colors different than those of their parents. Due to complex variations and interactions of genes, it's hard to say with certainty what color eyes a child might end up with.Also, the eyes of many Caucasian babies contain very little melanin at birth and will appear blue the first few months of life. But within 12 to 18 months, more melanin can accumulate in the iris, causing eye color to change from blue to green, hazel or brown.Benefits of brown eyesIf you have brown eyes, you'll be happy to know they have been associated with some health benefits.People with brown eyes may be less vulnerable to certain diseases. For example, people with brown eyes appear less likely to develop age-related macular degeneration than people with light-colored eyes.Also, people with brown eyes have a lower risk of type 1 diabetes and melanoma of the eye, compared with individuals with light blue eyes. And research at the National Hospital for Neurology and Neurosurgery in London suggests people with brown eyes have less risk of hearing problems from environmental noise pollution than coworkers with blue eyes. The study authors felt melanin pigment may help protect nerves in the brain from noise-induced damage.But it's not all good news for people with brown eyes.Research at the University of Pittsburgh found that women with dark-colored eyes seemed to experience more pain when giving birth compared with mothers with light-colored eyes. The women with light-colored eyes also had less anxiety, depression, negative thoughts and sleep disturbances than the women with brown eyes.Also, researchers in Australia found that people with dark brown eyes were more likely to develop cataracts than people with lighter-colored eyes. So, be sure to wear sunglasses that protect your eyes from UV radiation outdoors if you have brown eyes. (In most cases, polarized sunglasses offer the greatest comfort in bright sunlight.)Brown eyes: More trustworthy?Did you know that having brown eyes may make you appear more trustworthy?In research performed in the Czech Republic, university students were asked to look at photographs of 80 fellow students (40 males and 40 females, ages 19 to 26 years). Participants in the study were asked to rate the photographed students for trustworthiness on a 10-point scale.The students who were photographed were told to assume neutral, non-smiling expressions and not to wear any makeup or jewelry. All photos were cropped so that the eyes were always horizontally at the same height with a standard length of neck visible. Only photos of individuals with blue eyes or brown eyes were used in the study. Photos of students with hazel or green eyes were excluded.Results of the study revealed that people with brown eyes were perceived as significantly more trustworthy than those with blue eyes.But it's a little more complicated than that.The researchers found a relationship existed between eye color and face shape, and that the shape of a person's face also plays a key role in the perception of trustworthiness.Brown-eyed faces tended to have:A rounder and broader chinA broader mouth with upward-pointing cornersRelatively bigger eyesEyebrows that were closer to each otherIn contrast, blue-eyed faces were characterized by:A more angular and prominent lower faceA longer chinA narrower mouth with downward-pointing cornersRelatively smaller eyesMore widely separated eyebrowsBrown-eyed individuals tend to be perceived as more trustworthy than blue-eyed ones," explained the study authors. "But it is not brown eyes that cause this perception. It is the facial morphology linked to brown eyes."Give your brown eyes a different colorDespite the advantages associated with brown eyes, if you'd like to try other eye colors, you can. There is a wide variety of color contacts that can change your brown eyes to a different color. There are even colored contacts that can change dark brown eyes to light blue, if that's what you desire.And these lenses are available even if you don't need correction for nearsightedness, farsightedness or astigmatism. Not interested in colored contacts but want to know other ways to make your brown eyes "pop"?If you wear eyeglasses, ask your optician to show you how different frame colors can complement and enhance your brown eyes. And choose lenses with anti-reflective coating to help showcase your eye color. AR coating eliminates annoying reflections in your eyeglasses, allowing others to see the beauty and expressiveness of your brown eyes.You might also want to consult with a professional aesthetician to discover the best eyeshadow and makeup for brown eyes. The right choices for you will depend on a number of factors — including your hair color and skin tone as well as the depth of the pigment in your brown eyes.SEE RELATED: Surgery to change your eye colorHave routine eye examsTo keep your beautiful brown eyes healthy and seeing clearly, have routine eye exams at least every two years.READ MORE: Amber eyes: Rare and striking Page published in February 2019 Page updated in July 2021 HomeEye CareVision Resources | En Español By Amy Hellem; reviewed by Gary Heiting, OD Hazel eyes are a bit of a mystery.For starters, people describe this beautiful eye color in many different ways. Some say it looks like hazelnut, while others call it golden or brownish green. One of the reasons it's so hard to describe hazel-colored eyes is that the hue itself seems to change, depending on what you wear and the type of lighting you are in.Also, although hazel eyes appear to contain hues of green, amber and even blue, these color pigments don't exist in the human eye. So where does this stunning color come from?How eye color is determinedMost of us were taught in high school science class that we inherit our eye color from our parents, and that brown eye color is dominant and blue is recessive. That would mean that two parents with blue eyes cannot have a child with brown eyes because neither parent carries the dominant form of the gene for brown eyes.But it turns out the story is more complicated than that.Recent research has shown that up to 16 genes (not just one or two) may influence eye color, which makes predicting eye color much more difficult.Due to variations in the interaction and expression of multiple genes, it's hard to say for sure what color a child's eyes will be based on the color of his or her parents' eyes.For example, we now know it's possible for two blue-eyed parents to have a child with brown eyes — something the old model of eye color inheritance would have deemed impossible.Also, eye color can change dramatically in the first few years of life. Many white, non-Hispanic babies are born with blue eyes and then develop brown, green or hazel eyes in childhood.This phenomenon has little to do with genetics, but it does help explain where hazel eyes come from.What causes hazel eyes?The pigmented structure inside the eye that surrounds the pupil and gives eyes their color is called the iris. The pigment responsible for eye color is called melanin, which also affects skin color.The reason many white, non-Hispanic babies are born with blue eyes is that they don't have the full amount of melanin present in their irises at birth. In the first few years of life, more melanin may accumulate in the iris, causing blue eyes to turn green, hazel or brown.Babies whose eyes turn from blue to brown develop significant amounts of melanin. Those who end up with green eyes or hazel eyes develop a little less.Babies of African-American, Hispanic and Asian ethnicities are usually born with dark eyes that stay brown throughout life. This is because these individuals naturally have more melanin in their eyes and skin.Light absorption and scatteringThere are no blue, green or hazel pigments in the eye. Eyes merely have different amounts of melanin, which is a dark brown pigment.So how can a dark brown pigment create blue, green or hazel eyes? This is possible because of two processes:Melanin in the iris absorbs different wavelengths of light entering the eye.Light is scattered and reflected by the iris, and some wavelengths (colors) scatter more easily than others.Eyes with high concentrations of melanin absorb more light entering the eye, so less is scattered and reflected back from the iris. The result is a brown eye color.In eyes with lower concentrations of melanin, less light is absorbed, and more is scattered and reflected by the iris.Since light rays with shorter wavelengths (blue and green light) scatter more easily than light rays with longer wavelengths (red light), eyes with less light-absorbing melanin appear green or hazel, and eyes with low concentrations of melanin appear blue.Also, the distribution of melanin can vary in different parts of the iris, causing hazel eyes to appear light brown near the pupil and more green in the periphery of the iris.Hazel eyes are a work of artHazel eye color is both complex and magnificent, since its specific features are determined by many factors:The amount and distribution of melanin in the iris.How the scattering of light by the iris and pigment molecules affects color.How the perception of eye color is influenced by lighting and the color of our clothing and surroundings,Just as it takes many strokes of the artist's brush to produce a masterpiece, hazel eyes involve the dynamics of several elements to create the unique work of art that's represented in every hazel eye.If you wear eyeglasses, consider lenses with an anti-reflective coating to eliminate distracting reflections in your glasses and allow others to see the beauty of your hazel eye color.Changing your eye color with hazel contactsIf your eyes aren't naturally hazel, but you've always wanted them to be, you can achieve your wish with color contact lenses.They won't actually change your eye color, of course, just the appearance of it.Color contact lenses are available in many colors, so you can choose from a spectrum that includes every shade from light hazel to dark hazel.But it's not simply a matter of choosing a lens color you like; the natural color of your eyes has a role in determining which lenses will look best.If you have very light eyes, color contacts with an "enhancement tint" might be a good choice. These lenses have a translucent color that lets some of your natural color show through — to make your light blue eyes a deeper blue, for example.If your eyes are light enough, you might achieve the hazel eye color you want with an enhancement tint.More likely, you'll need lenses with an opaque tint to achieve a hazel eye color. These lenses are designed to mask your natural eye color with the color you desire. These lenses work well if you have dark brown eyes and want to give them a lighter appearance, including hazel.An eye care professional can show you various colors and help you make the right choice.Remember, hazel contact lenses require a contact lens prescription. So if you don't already wear contacts, you'll need an eye exam and a prescription before getting them — even if you have perfect vision without corrective lenses.SEE RELATED: Eye color change surgeryCelebrities with hazel eyesHere's a list of well-known celebrities' fame? We're not sure, but you could say that Kelly Clarkson's song "Behind These Hazel Eyes," from her Breakaway album, certainly did.LEARN MORE: Eye color genetics Page published in February 2019 Page updated in July 2021 what color eyes does william afton have. what color are elizabeth afton's eyes. what color is michael afton's eyes





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