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Unlocking the Mystery of How the Brain Creates Vision. Neuroresearcher Elissa Aminoff says computer models can help understand how we process a dizzying onslaught of visual information

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The “Vision Center,” is located in the back part of your brain (the occipital cortex or lobe). It is responsible for decoding the electrical information coming from the retina. The vision center interprets the electric form of the image, allowing you to form a visual map. As you can SEE, vision is a complex process. The brain has to do a

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lot of work to make a picture.

## **How Vision Works: Our Sense of Sight | Ask A Biologist**

provides a diagram on the eye and the different structures involved in vision). But to process an image, your eye needs to send that information onto the brain. That information is sent through one of

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the cranial nerves: the optic nerve. Each eye has a branch of the optic nerve, which intersect at the optic chiasm.

## **How Your Brain Processes Vision - EmpowHER**

Vision, of course, is more than recording what meets the eye: it's the ability to understand, almost instantaneously,

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what we see. And that happens in the brain. The brain, explains neurobiologist Semir Zeki of the University of London, has to actively construct or invent our visual world.

## **The Vision Thing: Mainly in the Brain | Discover Magazine**

Vision is an intricate function of the

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brain that extends from the front to the back of the head. To produce vision, the eyes record details and send it through the optic nerve to be processed by the occipital lobe.

## **What Part of the Brain Controls Vision - EYExan.com**

A bundle of more than a million nerve

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fibers carrying visual messages from the retina to the brain. Your brain actually controls what you see, since it combines images. Also the images focused on the retina are upside down, so the brain turns images right side up. This reversal of the images is a lot like what a mirror does in a camera.

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**The Brain and the Eye - How They  
Work Together - Discovery ...**

As the tumour grows, or there is a build-up of cerebrospinal fluid in the brain, it can squeeze normal healthy brain tissue including the main cranial nerves within the brain. The resulting pressure can alter how well the nerve works, and if this happens to the optic nerve, your



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vision can be affected.

## **Brain Tumour Symptoms: Changes in Vision**

The visual cortex is the largest system in the human brain and is responsible for processing the visual image. It lies at the rear of the brain (highlighted in the image), above the cerebellum. The

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region that receives information directly from the LGN is called the primary visual cortex, (also called V1 and striate cortex).

## **Visual system - Wikipedia**

But if we want to make use of this perceptual benefit in vision rehabilitation, we need to know whether

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the blind brain actually learned to generate it. It turns out that this depends on the age a ...

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The neural mechanisms of visual perception offer rich insight into how the brain handles such computationally

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complex situations. Visual perception begins as soon as the eye focuses light onto the retina, where it is absorbed by a layer of photoreceptor cells.

## **How Vision Works - BrainHQ from Posit Science**

One of the scarier potential causes of double vision is injuries to the brain or

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the eyes or any adverse impacts to nerve signaling or muscle control in the eye or brain. A condition called...

## **What Causes Double Vision? | US News**

This is the chemical that converts light into electrical impulses that the brain interprets as vision. The retinal nerve

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fibers collect at the back of the eye and form the optic nerve, which conducts the electrical impulses to the brain. The spot where the optic nerve and blood vessels exit the retina is called the optic disk.

## **How Vision Works | HowStuffWorks**

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introduction to the science of vision that offers a coherent account of vision based on general information processing principles

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The effect of a brain tumor, malignant or benign, on vision is normally a slowly developing set of symptoms. The person



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may experience recurring bouts of double vision or blurred vision, and as the symptoms get more advanced, these vision problems may be accompanied by a painful headache.

## **Brain Tumor Vision Symptoms | Healthy Living**

Somewhat detailed mathematical

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models of vision and, in particular, color vision have been initiated in the second half of the 19th century. With the developments in neurobiology in the last 20 years much more has been learned about how stimuli entering the eye are processed in the brain.

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