

# VISUAL HALLUCINATION

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## VISUAL HALLUCINATION

**Primary Disciplinary Field(s):** Psychology, Neurology, Psychiatry

### 1. Core Definition

A **visual hallucination** is defined as a form of sensory perception wherein an individual experiences visual comprehension within the absence of any exterior physical stimulus or objective reality. These experiences are entirely generated internally by the brain and can range dramatically in their complexity and content. Unlike visual illusions, which involve a misinterpretation of an actual external stimulus, hallucinations occur spontaneously when there is no sensory input corresponding to the perceived image.

The occurrence of visual hallucinations is a critical clinical sign, often signaling underlying psychological distress, neurological dysfunction, or systemic medical issues. The intensity and realism of these perceptions can vary greatly, from fleeting geometric patterns to fully formed, interactive scenes. Understanding the characteristics of the visual hallucination is essential for differential diagnosis and the subsequent formulation of an appropriate treatment plan.

### 2. Typology: Simple vs. Complex Manifestations

Visual hallucinations are typically categorized based on the structure and detail of the perceived content, which often provides clues regarding the anatomical location of the underlying disruption in the visual pathway or cortex. This basic categorization divides the phenomena into simple and complex forms.

**Simple visual hallucinations**, often referred to as elementary or unformed hallucinations, involve basic visual components. These commonly include flashes of light (known as photopsia), amorphous shapes, lines, colors, or fog. They lack sophisticated, recognizable structure and are frequently associated with disturbances in the primary visual cortex or early parts of the visual pathway. In contrast, **complex visual hallucinations**, or formed hallucinations, present highly organized and detailed visual content. These experiences might involve seeing people, animals, objects, or fully constructed, elaborate scenes. The presence of complex visual hallucinations often indicates involvement of higher-order visual association areas in the cerebral cortex, or specific localized neurological conditions.

### 3. Etiology and Correlative Conditions

The causation of visual hallucinations is multifaceted, stemming from various sources including physiological lesions, specific neurological disorders, and extreme environmental conditions. The source content emphasizes that these perceptions frequently stem from direct correlation with

**lesions** affecting the integrity of the visual system.

These pathological lesions can occur anywhere along the peripheral or central visual pathway or within the critical visual cortical regions responsible for processing and interpreting visual data. Certain medical conditions are strongly associated with the recurrence of these events; for instance, they are frequently existent in conditions such as **temporal-lobe epilepsy**, where they may manifest as part of an aura preceding a seizure or as a spontaneous ictal event. Furthermore, as noted in observational studies, visual hallucinations might arise in periods of **extended isolation** or profound sensory deprivation, suggesting that the brain may generate internal stimuli when deprived of sufficient external input to maintain normal activity.

#### 4. Clinical Awareness and Insight

A vital component in the clinical assessment of visual hallucinations is determining the individual's level of **insight**--their awareness regarding the unreal nature of the perception. This distinction is paramount in differentiating the origin and prognosis of the condition.

In cases correlated with severe **psychoses**, such as schizophrenia or severe bipolar disorder, the person is often not aware of the unrealness of the comprehension; they believe the perceived images are truly present in their environment, impacting their reality testing. Conversely, in other circumstances, such as hallucinations stemming from medication side effects, substance withdrawal, or specific neurological syndromes like Charles Bonnet Syndrome, awareness of this unrealness is typically kept. Patients may describe seeing vivid, complex images but simultaneously possess the intellectual understanding that these images are not real, indicating preserved reality testing despite the visual disturbance.

#### 5. Significance and Therapeutic Implications

The identification of visual hallucinations carries significant implications across medicine and psychology, demanding comprehensive investigation to determine the underlying cause, which may range from neurodegenerative diseases to acute toxic states.

Accurate characterization of the hallucination type and the determination of insight are crucial steps guiding treatment. If the etiology is found to be neurological (e.g., lesions or epilepsy), treatment often focuses on managing the primary neurological condition. If the etiology is psychiatric and associated with a loss of insight, anti-psychotic medication is typically indicated. For hallucinations arising from environmental factors like isolation, addressing the sensory deficit and reintegrating the individual into a stimulating environment may be necessary. Given the distress and functional impairment hallucinations can cause, timely and precise intervention is necessary for improving patient outcomes and quality of life.

## 6. Further Reading

[Wikipedia: Hallucination \(General Overview\)](#)

[National Institutes of Health \(NIH\): Visual Hallucinations in Neurological Disorders](#)

[Epilepsy Foundation: Temporal Lobe Epilepsy and Visual Aura](#)

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