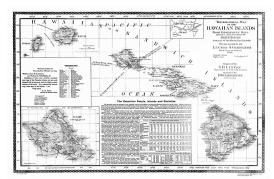
# What is Aphantasia?

Joel J. Lorenzatti

#### A true story



"When we hear something, we form images in our head automatically in order to visualize what we hear" (Antonioni, 1982, p. 6)

"The soul never thinks without an image" (Aristotle, DA III, 7)

## Lack of mental imagery?

Despite the apparent role of mental imagery in supporting and facilitating a substantial part of our mental lives, some otherwise healthy individuals have recently reported a complete inability to produce it.



# A brief history of aphantasia

MIND

A QUARTERLY REVIEW

rSYCHOLOGY AND PHILOSOPHY.

L-STATISTICS OF MENTAL IMAGERY



#### A name

# α φαντασία a phantasia

Articles: The New York Times, Scientific American News stories: BBC, CBC Testimonials: TEDx, YouTube References: Netflix's Space Force

Zeman's paper reached the top 1% of scientific outputs.

However, this alleged condition has hardly been discussed in the philosophy of mind.

SEP 1997-2021 SEP 2021-Present Nigel J. T. Thomas Bence Nanay

# The puzzle

There is a "puzzle raised by the apparent lack of correlation between objective task performance in imagery tasks and reported imagery" (Phillips, 2014, p. 279)

# Discrepancy -

#### "Subjective" tests

E.g., VVIQ

Imagine:

"A country scene which involves trees. mountains and a lake."

Rate the vividness of the picture (1-5).

E.g., SUIS & OSIQ

"If I am looking for new furniture in a store. I always visualize what the furniture would look like in particular places in my home."

## "Objective" tests

E.g., mental rotation





E.g., Parts of animals

Elephant: "Does it have a long tail proportional to its body size?"



#### INTROSPECTION

Individuals who report no visual imagery fail to become aware of personal-level mental states that they nonetheless have, due to intrinsic unreliability or abnormal performance of introspection.

#### **DESCRIPTION**

Individuals who report no visual imagery are simply describing their mental experiences in a different way, with no significant cognitive differences between self-described aphantasics and other individuals.

# **Arguments**

Neurophysiological (fMRI)

Psychological (aversions, frightening scenarios. and post-traumatic stress)

Physiological (binocular rivalry, luminance conditions, pupillometry tests)

Words conveying brightness elicit greater pupil constriction than words conveying darkness (Mathôt et al., 2017)



Grayscale pictures of highluminance objects elicit greater pupil constriction than grayscale pictures of lowluminance objects (Binda et al., 2013)

Unlike visualizers, self-described aphantasics do not adjust their pupil size when asked to visualize high-luminance objects.



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#### DISCONNECTION

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Individuals who report no visual imagery have subpersonal mechanisms with imagistic representations that are not accessible at a personal level.

#### **ABSENCE**

Individuals who report no visual imagery have no subpersonal mechanisms with imagistic representations but use alternative cognitive strategies to compensate in activities that would otherwise involve visual imagery.

# Philosophical task

First, to provide a conceptual articulation of what is as yet only a diverse array of empirical studies.

Second, to call attention to the distinction between failures of introspection and lack of access, something too often blurred by vague use of terms like "consciousness," "experience," and "awareness."

Third, to call for greater precision in what we mean by "mental imagery" in relation to aphantasia-and thus avoid the ambiguity of whether it refers to personallevel events or sub-personal imagistic representations.

#### **Ouestions?**

