

# **THE STRUCTURE OF THE EYE**

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The Structure of the Eye by William Clay Wallace

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**WILLIAM CLAY WALLACE**

**THE STRUCTURE  
OF THE EYE**



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THE

STRUCTURE OF THE EYE,

WITH REFERENCE TO

NATURAL THEOLOGY.

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BY WILLIAM CLAY WALLACE,

*Oculist to the New-York Institution for the Blind, and to  
the Orphan Asylum; late Physician to the  
Northern Dispensary, &c.*

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WILEY & LONG, 161 BROADWAY.

1836.

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Gift  
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4-9-1932

TO

WILLIAM MACKENZIE, ESQ.

*Lecturer on the Diseases of the Eye in the University of Glasgow.*

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MY DEAR SIR,

WHEN I was Surgeon's Assistant at the Glasgow Eye Infirmary, under you and the late Dr. Monteath, I had many proofs of your friendship; as a small acknowledgment of which, and of your attention since, I dedicate this to you.

Respectfully, yours,

W. C. WALLACE.

553 Pearl-street, New-York, }  
1st February, 1836. }





## P R E F A C E .

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THE eye affords a wide and interesting field for observation. The ingenuity of the contrivance, and the adaptation of the means to the end that is to be accomplished, are exhibited in its structure, which is always varied to suit the wants of the possessor. It has been almost always brought forward by writers on Natural Theology, as a convincing proof that such an instrument could only be formed by a wise Contriver.

Owing to the difficulty of examining such a delicate structure, the nature and use of some of its parts are disputed. Independently of these, the evidences on which all are agreed are quite sufficient for the argument.

It is probable that the present attempt will be followed by a similar view of the other organs of sense as soon as opportunity will allow.



CLASSIFICATION  
OF  
STRUCTURES OF THE EYE.

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- |                              |  |
|------------------------------|--|
| 1. Refractors of Light.      | <i>Aqueous Humor, Crystalline Lens, Vitreous humor.</i>                                |
| 2. Receiver " "              | <i>Retina.</i>   |
| 3. Reflector " "             | <i>Tapetum. [Exists only in nocturnal animals.]</i>                                    |
| 4. Absorber " "              | <i>Choroid.</i>  |
| 5. Regulator " "             | <i>Iris.</i>   |
| 6. Regulators to Distances.  | <i>Falciiform Membrane, Muscle of the Crystalline Lens, Marsupium, Ciliary Circle.</i> |
| 7. Case.                     | <i>Cornea, Sclerotica.</i>   |
| 8. Movers.                   | <i>Muscles.</i>  |
| 9. Protectors and Cleansers. | <i>Socket, Eyebrow, Eyelids, Eyelashes, Apparatus for the Tears.</i>                   |