

## Chapter I. Introduction to the world of vision

Supplementary contents at <http://bit.ly/2TqTDt5>

A non-exhaustive list of other great books on vision:

(Berkeley 1709, Cattaneo & Vecchi 2011, Deco & Rolls 2004, Finger 2000, Frisby & Stone 2010, Gabbiani & Cox 2010, Helmholtz & Southall 1924, Horn 1986, Kriegeskorte & Kreiman 2011, Li 2014, Livingstone 2002, Marr 1982, Parker 2011, Pizlo 2008, Poggio & Anselmi 2016, Purves & Lotto 2003, Rao et al 2002, Regan 2000, Snowden et al 2012, Stone 2012, Tsotsos 2011, Ullman 1996, Wade 1998, Wandell 1995)

### 1.1. Evolution of the visual system

(Parker 2004, Schwab 2018, Wikipedia)

### 1.2. The future of vision

(Good 1966)

### 1.3. Why is vision difficult?

(DiCarlo et al 2012, Kalia et al 2014, Marr 1982, Riesenhuber & Poggio 2000)

### 1.4. Four key features of visual recognition

(Biederman 1987, Felleman & Van Essen 1991, Kirchner & Thorpe 2006, Liu et al 2009, Potter & Levy 1969, Shepard 1987, Standing 1973, Thorpe et al 1996)).

### 1.5. The travels and adventures of a photon

(Felleman & Van Essen 1991, Maunsell 1995, Panda et al 2002, Parker & Newsome 1998, Wandell 1995, White et al 1986, Wikipedia 2020a)

### 1.6. Tampering with the visual system

(Damasio et al 1990, Penfield & Perot 1963, Sacks 1995, Sacks 1998, Salzman et al 1990)

### 1.7. Functions of circuits in visual cortex

(Adrian 1926, Barlow 1972, Hubel 1979, Hubel 1995, Hubel & Wiesel 1962, Hubel & Wiesel 1968)

## 1.8. Toward the neural correlates of visual consciousness

(Crick 1994, Koch 2005, Leopold & Logothetis 1999, Macknik 2006)

## 1.9. Toward a theory of visual object recognition

(Krizhevsky et al 2012, Marr 1982, Riesenhuber & Poggio 1999, Serre et al 2007, Turing 1950) (Olshausen & Field 1996)

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