

Chapter 7

Armadillos dancing against a swollen Moon

(vision)

Here are the references and web links for the stories in the book.

Recently added references are highlighted. For updates to those stories and for all the new stories, go to

<http://www.flyingcircusofphysics.com/News/NewsDetail.aspx?NewsID=43>

July 2010

7.1 Enlarging the Moon

This item is discussed in the book *The Flying Circus of Physics, second edition*, by Jearl Walker, published by John Wiley & Sons, June 2006, ISBN 0-471-76273-3.

The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

http://www.geocities.com/csh_home/picture_july2005.html Discussion

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7.2 Shape of the sky

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See also the references to the preceding item.

7.3 Decapitation with the blind spot

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<http://ourworld.compuserve.com/homepages/cuius/idle/percept/blindspot.htm> Diagram locating the blind spot, plus discussion

<http://www.ophtasurf.com/en/blindspot.htm> Use the dot and X to find your blind spot

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7.4 Gray networks in the morning, dashing specks in the daylight

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7.5 Floaters and other spots in your eye

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7.6 Streetlight halos, candle glow, star images

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7.7 Phosphenes --- psychedelic displays

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7.8 Humming becomes a stroboscope

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7.9 Keeping your eye on the baseball

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7.10 Impressionism

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7.11 Pointillistic paintings

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The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

http://www.askart.com/AskART/interest/base_essay.aspx?id=92&glossary=1&pg=style One example

<http://www.psych.ucalgary.ca/pace/va-lab/Brian/nature.htm> Discussion plus example

<http://blogs.princeton.edu/wri152-3/dlieber/archives/002188.html>

Discussion plus several examples

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7.12 Moiré patterns

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<http://www.artlandia.com/products/SymmetryWorks/moire/moire2.html>

Moving example

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7.13 Op art

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The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

<http://www.ritsumeai.ac.jp/~akitaoka/index-e.html> Akiyoshi Kitaoka illusions (startling, especially “Rotating snakes”)

http://www.michaelbach.de/ot/mot_enigma/index.html

http://www.perceptionweb.com/perception/misc/p5542/p5542_1.jpg

http://thinksmart.typepad.com/good_morning_thinkers/images/moving_illusion.bmp Very good op art with illusory motion

<http://www.diycalculator.com/imgs/illusion-snakes-sm.jpg> Another good one

http://content.answers.com/main/content/wp/en-commons/thumb/9/9c/256px-Grid_illusion.svg.png As you move your eyes over the array, are the circles black or white or both?

<http://www.cns.nyu.edu/~alan/resources/illusions/snakeContrastFull.jpg>

Move your eyes around the graphic.

<http://eluzions.com/Images/124x93/Illusions.gif>

<http://eluzions.com/Illusions/>

<http://www.digitalmediatree.com/tommoody/op90s/getpic/1190/> Example

<http://www.f-lohmueller.de/pov/hypnoz2g.jpg> Use the buttons at the left to crawl around

<http://testwww.siggraph.org/education/materials/HyperVis/vision/ilus2.gif>

Subjective contour. A nonexistent square.

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7.14 Depth in oil paintings

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7.15 Reading in the dark

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7.16 Trailing ghost light

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7.17 Reflecting eyes

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7.18 Underwater vision of humans, penguins, and crocodiles

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7.19 Underwater vision of “four-eyed fish”

This item is discussed in the book *The Flying Circus of Physics, second edition*, by Jearl Walker, published by John Wiley & Sons, June 2006, ISBN 0-471-76273-3.

The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

<http://www.elacuarista.com/secciones/biologia7.htm>

Photo of the fish that can see in both air and water.

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7.20 Cheshire cat effect

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7.21 Rhino-optical effect

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http://virtuallibrary.stao.ca/sci-tie-data/lessons/1300_1399/1395.htm Page from the Science Teachers’ Association of Ontario.

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7.22 Flying clouds and Blue Meanies

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The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

http://www.wilsonsalmanc.com/images1/blue_meanies.jpg The blue meanies, not the illusion

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7.23 Pulfrich illusion

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7.24 Streetlight delay sequence

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7.25 Mach bands

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The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

<http://www.psych.ndsu.nodak.edu/mccourt/Projects/Brightness/Mach/Mach%20bands.htm> Photo showing the effect

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7.26 An upside down world

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7.27 Inverted shadows, and the blister effect

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7.28 Peculiar reflection from a Christmas tree ball

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7.29 Rotated random dot patterns

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7.30 Patterns in television “snow”

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7.31 Mona Lisa’s smile

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The material here is located at www.flyingcircusofphysics.com and will be updated periodically.

[http://www.harley.com/art/abstract-art/images/\(davinci\)-mona-lisa.jpg](http://www.harley.com/art/abstract-art/images/(davinci)-mona-lisa.jpg) The Mona Lisa

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7.32 Floating, ghostly images of a television screen

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7.33 Reading through pinholes

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7.36 A stargazer's eye sweep

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7.37 Resolution of earth objects by astronauts

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7.38 Honeybees, desert ants and polarized light

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7.39 Haidinger's brush

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7.40 Colors of shadows

This item is discussed in the book *The Flying Circus of Physics, second edition*, by Jearl Walker, published by John Wiley & Sons, June 2006, ISBN 0-471-76273-3.

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7.41 Safety of sunglasses

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7.42 Fish lens

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7.43 Depth in red and blue signs

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7.44 Purkinje's blue arcs

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7.45 Maxwell's spot

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7.46 Visual sensations from radiation

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7.47 Red light for control boards

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7.48 Superman's x-ray vision

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7.49 Fireworks illusion

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<http://www.pbs.org/wgbh/nova/fireworks/> Web site to go with PBS network Nova show

<http://library.thinkquest.org/15384/?tqskip1=1> More

<http://www.pbs.org/wgbh/nova/kaboom/> More

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7.50 Looking at the ceiling

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