

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>

August 2011

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

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

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7.25 Mach bands

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.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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7.33 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

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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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