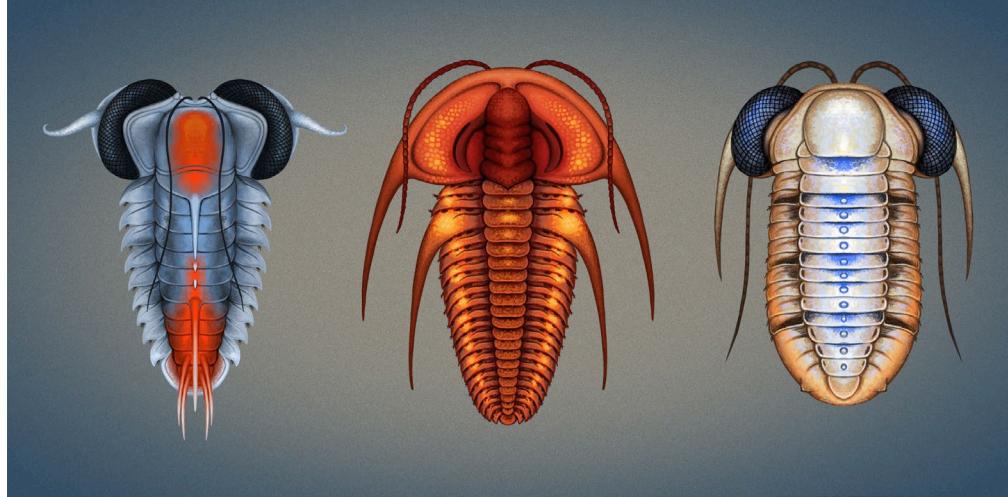


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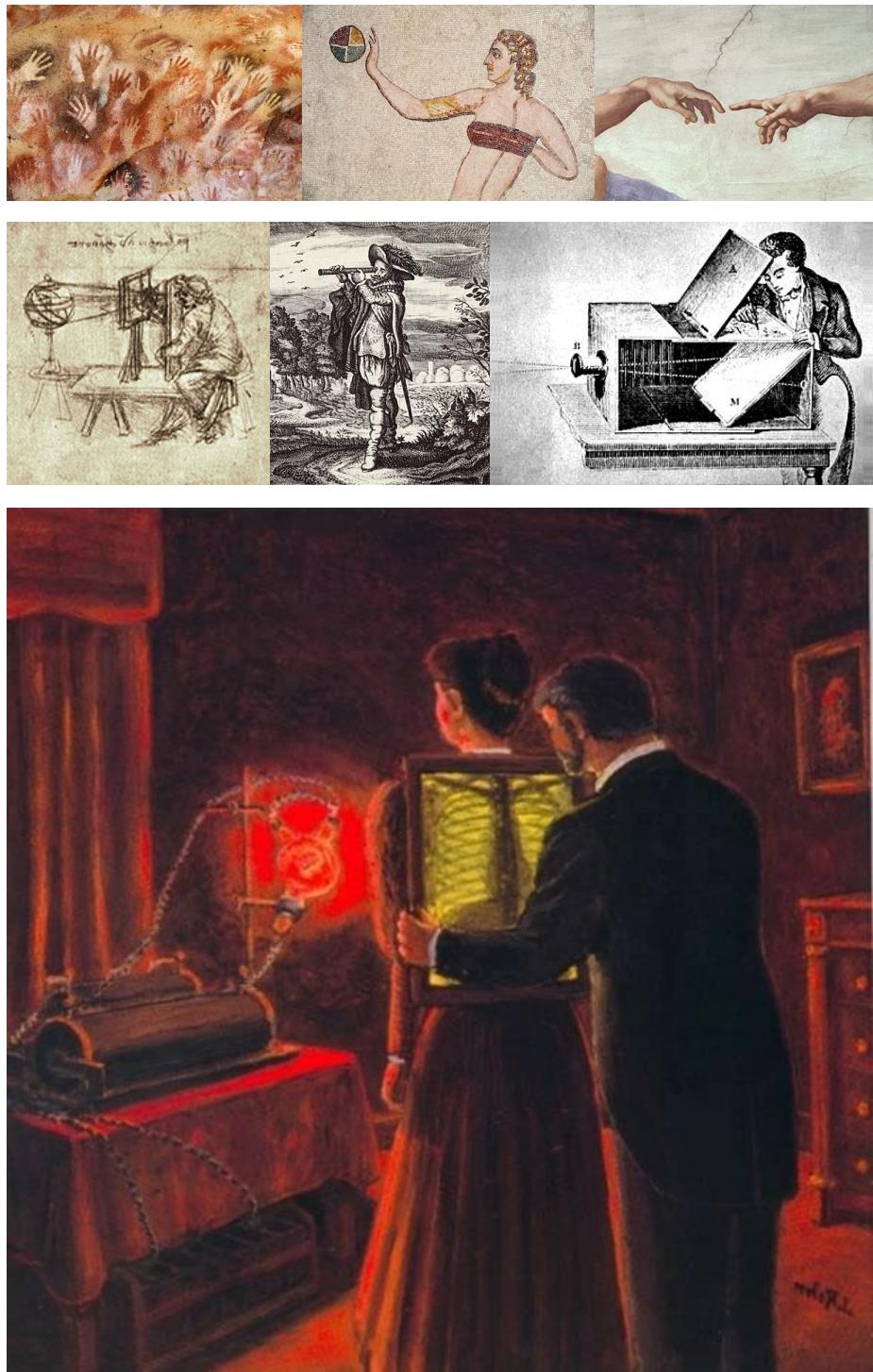


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PLATE 1: The nature of seeing. (Top) Meet the trilobites, pioneers of vision. (Bottom) The startling diversity of animal eyes.

Sources: (Top) Courtesy of Franz Anthony (<https://franzanth.com/>); (bottom) Wanderlust2003, CC BY-SA 4.0, via Wikimedia Commons.

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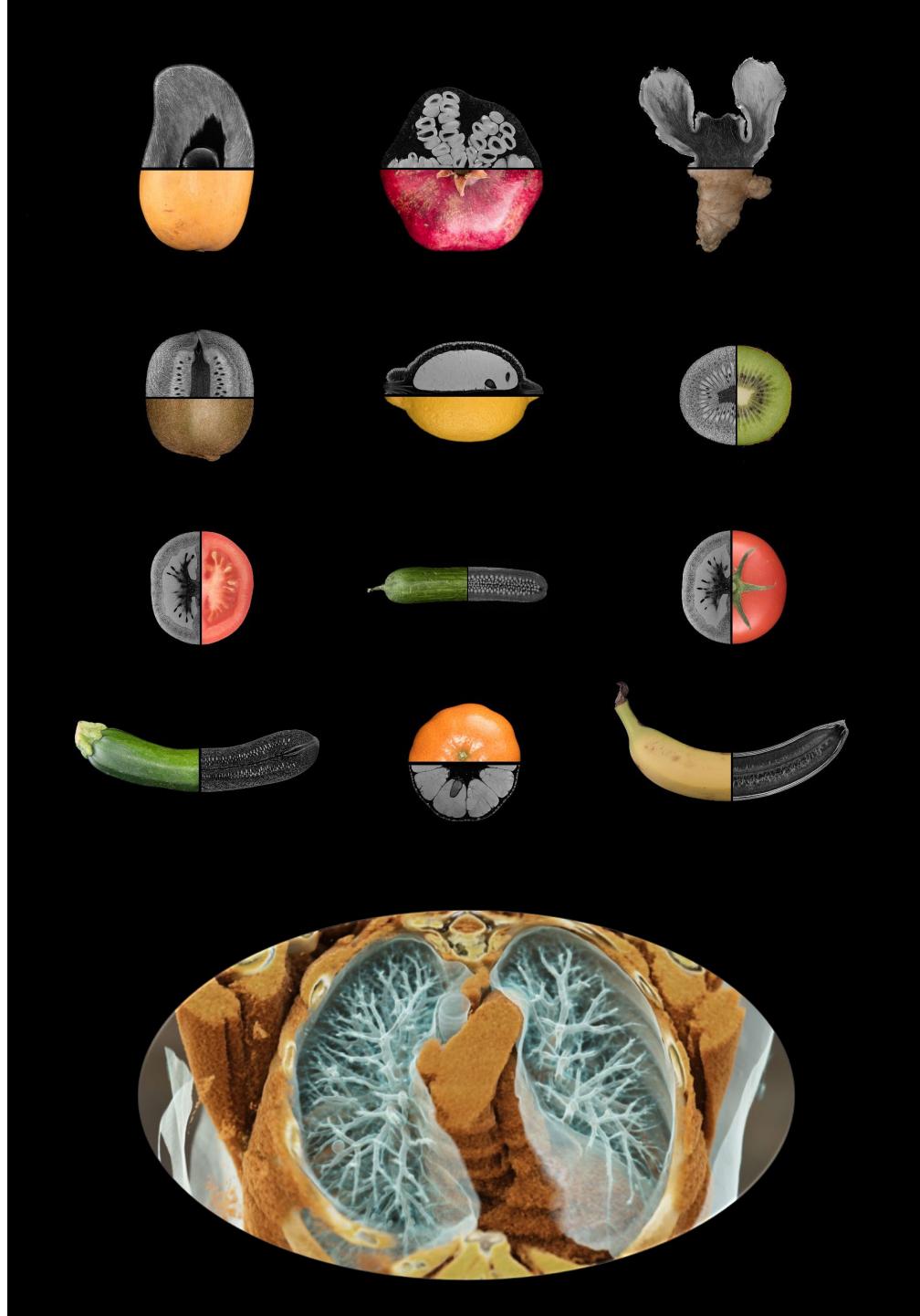


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PLATE 2: Augmenting nature and seeing it through. (*Top*) Handmade images. (*Middle*) Imaging with machines. (*Bottom*) Early x-ray imaging.

Sources: (*Top left*) Pablo A. Gimenez, CC BY-SA 2.0, via Wikimedia Commons; (*top center*) Marco Ossino/Shutterstock; (*top right, middle*) public domain via Wikimedia Commons; (*bottom*) 1985 painting by D. Jacques Rohr showing an x-ray fluoroscopic examination of a woman in 1896, courtesy of Centre Antoine Béclère, Paris.

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PLATE 3: Slicing without cutting. (*Top*) MRI still life. Slices of assorted fruits and vegetables spliced with color photographs. (*Bottom*) The body in living color. A cinematic rendering of lung anatomy from CT slices.

Sources: (*Top*) Courtesy of Pippa Storey and Paweł Ślabiak; (*bottom*) courtesy of Siemens Medical Solutions USA, Inc. The CT data used to create these images were acquired at the Portuguese Institute of Oncology, Lisbon.

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PLATE 4: The many faces of tomography. (Top) Progressive improvements in prenatal ultrasound. (Middle left) MRI, PET, and fused MRI and PET images of the body. (Middle right) Tracking blood flow in the heart using MRI. (Bottom) Imaging advances featured on the cover of *Science* magazine in the early 1990s.

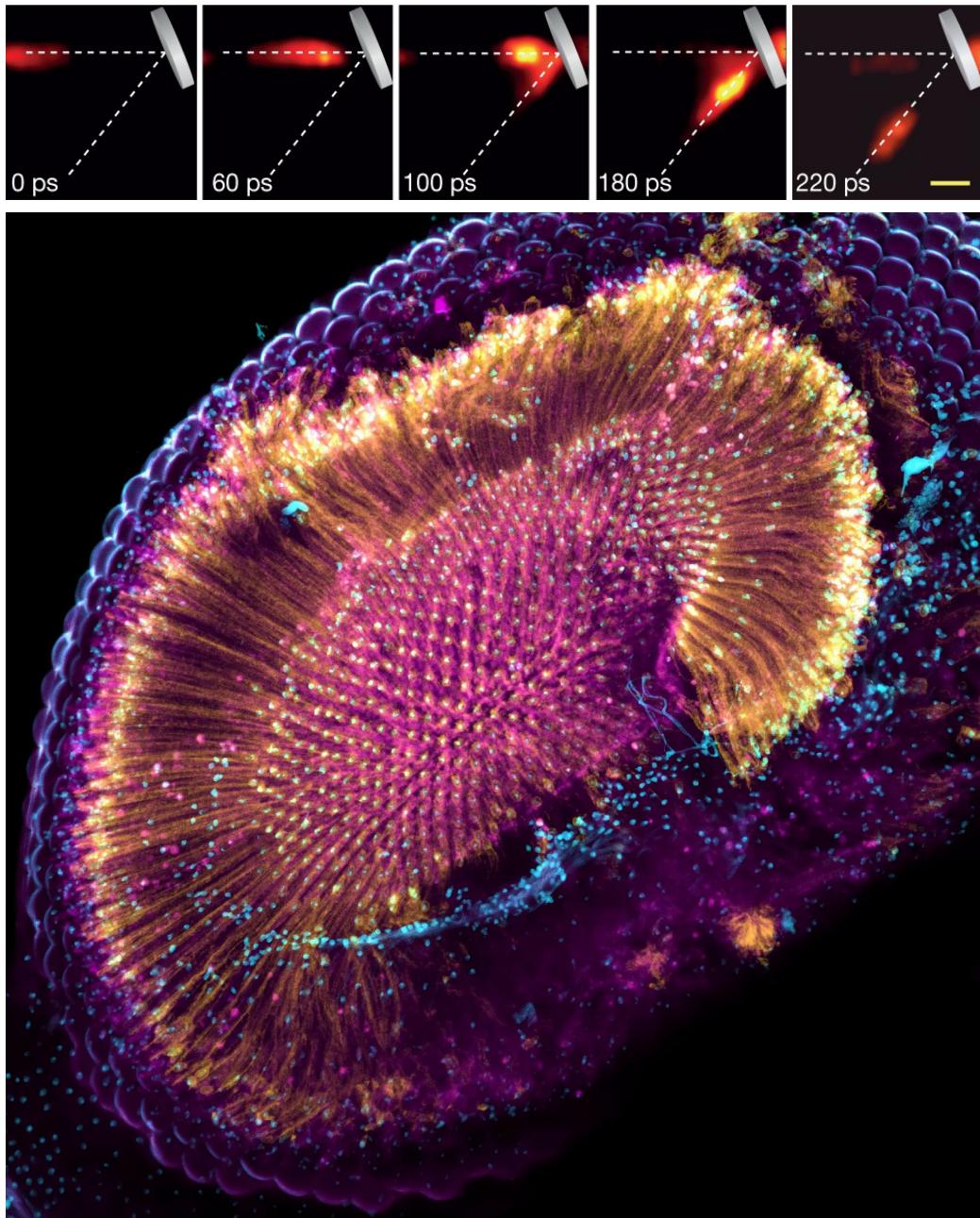
Sources: (Top) Public domain; (middle left) Department of Radiology, NYU Grossman School of Medicine; (middle right) courtesy of Rizwan Ahmad (<https://u.osu.edu/ahmad/research/>); (bottom) reprinted with permission from the American Association for the Advancement of Science; (bottom left) *Science* 250, no. 4977 (1990), visualization by Geoffrey Sobering, National Institutes of Health; (bottom right) *Science* 254, no. 5032 (1991), courtesy of the Massachusetts General Hospital-NMR Center.



PLATE 5: What's in an image? Outer space and inner space. (*Top*) Harmony of the spheres. A composite image of the Crab Nebula in multiple frequencies. (*Bottom*) Symmetry of the mind. Tracing nerve fiber bundles in the brain using diffusion MRI.

Sources: (*Top*) Public domain via NASA (<https://svs.gsfc.nasa.gov/30944>). (*Bottom*) Courtesy of Dorin Comaniciu; data from the NYU Grossman School of Medicine; 3-D rendering by Siemens Healthineers.

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PLATE 6: “I have seized the light. I have arrested its flight.” (*Top*) Compressed ultrafast photography depicting light bouncing off a mirror at 100 billion frames per second, delivering in the twenty-first century on Daguerre’s exuberant nineteenth-century proclamation. (*Bottom*) A light microscope image of a fruit fly retina with its photoreceptors highlighted in yellow.

Sources: (*Top*) Reproduced with permission from L. Gao et al., “Single-Shot Compressed Ultrafast Photography at One Hundred Billion Frames per Second,” *Nature* 516 (2014): 74–77, figure 3a. © Springer Nature; (*bottom*) Guillaume Thuery, CC BY-SA 4.0, via Wikimedia Commons.

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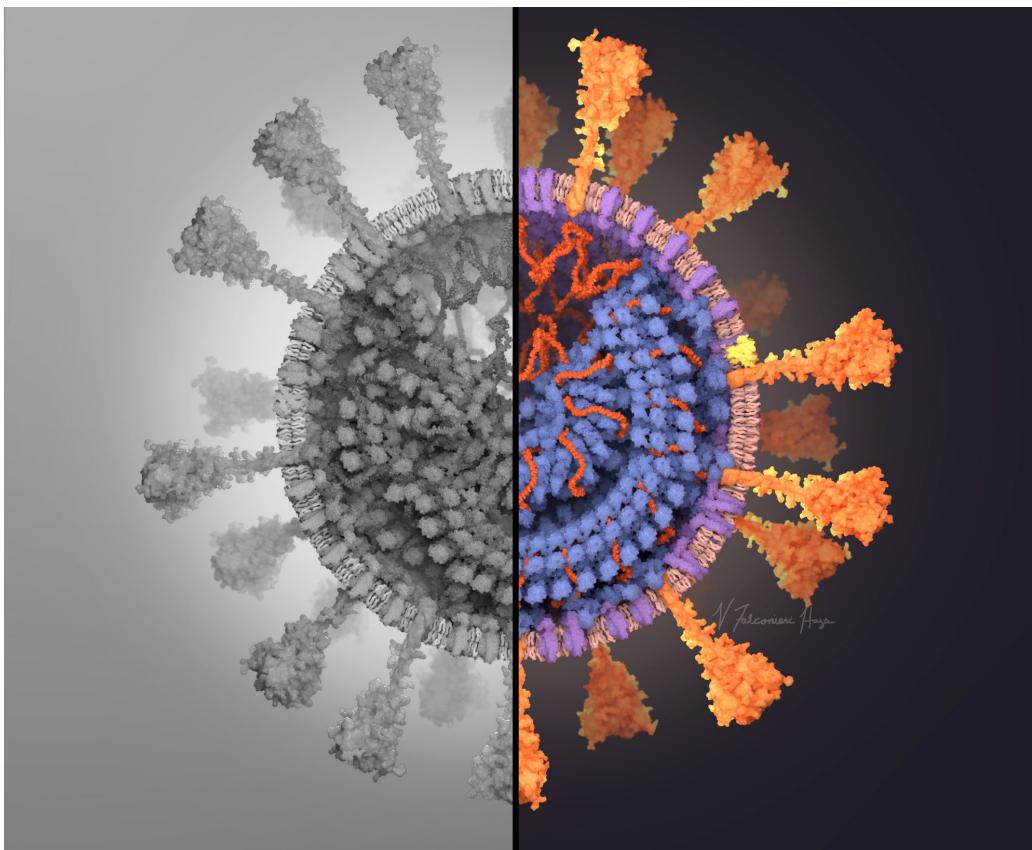
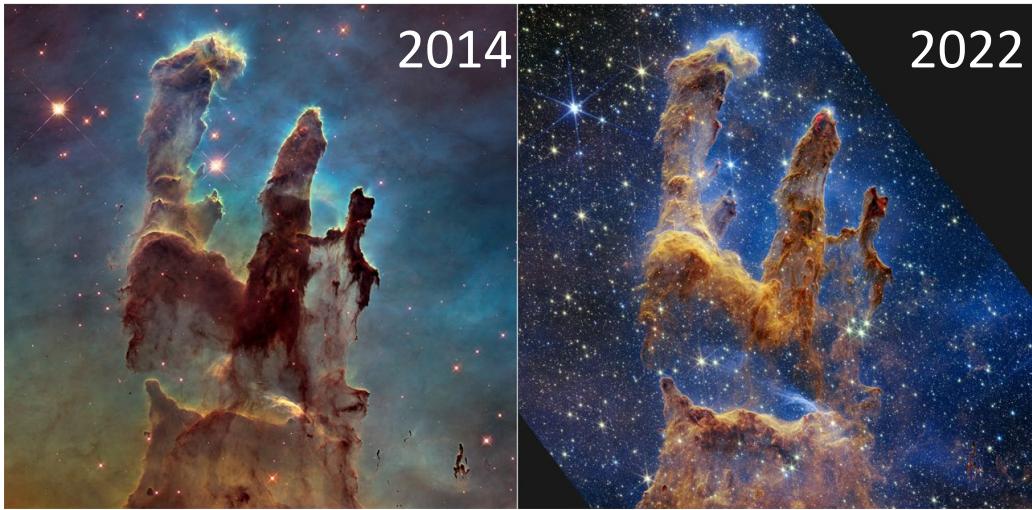


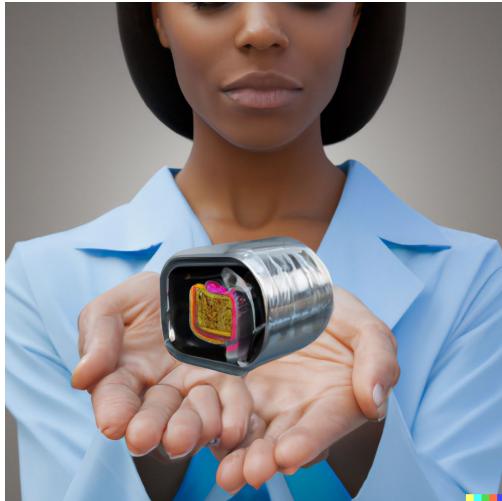
PLATE 7: Farther, smaller, clearer: imaging marches on. (*Top*) The Pillars of Creation as viewed by the Hubble (*left*) and Webb (*right*) space telescopes. (*Bottom*) A composite image of a SARS-CoV-2 virus, combining information from electron microscopy, cryoelectron microscopy, x-ray crystallography, and magnetic resonance.

Sources: (*Top*) NASA, ESA, CSA, STScl, Hubble Heritage Project (STScl, AURA); (*bottom*) © 2020 Veronica Falconieri Hays.



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PLATE 8: The future of seeing. (Top) Bat eyes and ears. (Bottom) What does DALL-E see? The output of OpenAI's image-generating system following the prompts "A woman holding a miniature MRI machine in her hand" (left) and "The future of seeing" (right).

Sources: (Top) aaron007/iStock.com; (bottom) images generated by the author using DALL-E 2 (OpenAI).