



## Bibliography

# SOCIETYS GENOME

Many similarities exist between genetic diversity in natural evolution and in data. If you wish to dig deeper into this topic, the excellent works of science and technology that are quoted in this book are worth investigating.

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# Illustration Credits

## Chapter 1

**Image on page 1:** Adobe Stock.

**Figure 1:** “Ptolemy World Map,” from Ptolemy’s the *Geography*, redrawn by Francesco di Antonio del Chierco (15th century). Housed in the British Library, London. Image retrieved from <https://commons.wikimedia.org/wiki/File:PtolemyWorldMap.jpg>.

**Figure 2:** Diagram of hard-disk drive manufacturer consolidation. Image © Juventas, CC-BY-SA 3.0. Retrieved from <https://commons.wikimedia.org/w/index.php?curid=16149377>.

## Chapter 2

**Images on pages 15 and 18:** Adobe Stock.

**Figure 1:** “Exponential Growth of Computing for 110 Years.” Image from Ray Kurzweil’s, “The Future of Moore’s Law,” Kurzweil: Accelerating Intelligence. Retrieved from <http://www.kurzweilai.net/ask-ray-the-future-of-moores-law>.

**Figure 2:** “Social Networking in the Arab World.” From *Media Use in the Middle East*, 2013, © 2013 Northwestern University in Qatar. Retrieved from <http://menamediasurvey.northwestern.edu/#>.

## Chapter 3

**Image on page 29:** Adobe Stock.

**Figure 1:** IBM logo evolution. Image retrieved from [http://www.retireat21.com/entrepreneurship/17-evolutions-of-logos#IBM\\_Logo\\_Evolution](http://www.retireat21.com/entrepreneurship/17-evolutions-of-logos#IBM_Logo_Evolution).

## Chapter 4

**Images on pages 41, 46, and 50:** Adobe Stock.

**Figure 1:** Large Hadron Collider. Image © CERN. Retrieved from <http://home.cern/topics/large-hadron-collider>.

**Figure 2:** Bibliotheca Alexandrina. Image retrieved from [https://en.wikipedia.org/wiki/Bibliotheca\\_Alexandrina](https://en.wikipedia.org/wiki/Bibliotheca_Alexandrina), available under CC0 1.0, (universal public domain).



**Image on page 60:** Adobe Stock.

**Figure 3:** “Cost per Genome” chart based on data presented by Kris Wetterstrand, “DNA Sequencing Costs: Data from the NHGRI Genome Sequencing Program,” National Human Genome Research Institute. Retrieved from <http://www.genome.gov/sequencingcosts/>.

**Figure 4:** Artist’s rendition of SKA-mid dishes in Africa. Image © 2015 SKA Organization. Retrieved from [https://www.skatelescope.org/wp-content/uploads/2011/03/SKA1\\_SA\\_closeup\\_midres.jpg](https://www.skatelescope.org/wp-content/uploads/2011/03/SKA1_SA_closeup_midres.jpg).

**Figure 5:** Artist’s rendition of low-frequency antennas in Australia. Image © 2015 SKA Organization. Retrieved from <https://www.skatelescope.org/multimedia/image/ska-low-frequency-aperture-array-close-up-australia/>.

## Chapter 5

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**Figure 1:** USB drive. Image: Adobe Stock.

**Figure 2:** South Ferry subway station, Lower Manhattan. Image: MTA New York City Transit/Leonard Wiggins.

## Chapter 6

**Image on page 79:** Adobe Stock.

**Figure 1:** “Total Malware in Existence” chart adapted from “Total Malware” chart © AV-TEST GmbH. Retrieved from <https://www.av-test.org/en/statistics/malware/>.

**Figure 2:** Web snapshot of Tox graphical interface. Image from “Meet ‘Tox’: Ransomware for the Rest of Us,” McAfee Labs. Retrieved from <https://blogs.mcafee.com/mcafee-labs/meet-tox-ransomware-for-the-rest-of-us/snapshot>.

**Figure 3:** Botnet diagram. Image retrieved from <http://cybersuriya.blogspot.com/2013/09/hello-guys-in-this-tutorial-ill.html>.

**Figure 4:** “Anonymous logo (Perfect Symmetry).” Image © 2013–16 by anondesign. Retrieved from <http://anondesign.deviantart.com/art/Anonymous-Logo-Perfect-Symmetry-408648867>.

## Chapter 7

**Image on page 95:** © Spectra Logic Corporation.

**Figure 1:** FBI most-wanted poster (Bogachev). Image: Federal Bureau



of Investigation. Retrieved from <https://www.fbi.gov/wanted/cyber/evgeniy-mikhailovich-bogachev>.

**Figure 2:** FBI most-wanted poster (Chinese military officers). Image: Federal Bureau of Investigation. Retrieved from [https://www.fbi.gov/news/news\\_blog/five-chinese-military-hackers-charged-with-cyber-espionage-against-u.s](https://www.fbi.gov/news/news_blog/five-chinese-military-hackers-charged-with-cyber-espionage-against-u.s).

## Chapter 8

**Image on page 111:** Adobe Stock.

**Figure 1:** CHAMP. Image © Boeing. Retrieved from <http://www.businessinsider.com/beoings-counter-electronics-high-power-microwave-advanced-missile-project-2012-10?0=defense>.

**Figure 2:** USS *Forrestal*. Image: United States Navy (Catalog no. USN 1124794). Retrieved from <http://www.history.navy.mil/our-collections/photography/numerical-list-of-images/nara-series/usn/USN-1120000/USN-1124794.html>.

**Figure 3:** Low-power EMP gun kit. Retrieved from <http://www.amazing1.com/emp.html>.

## Chapter 9

**Images on page 129:** Adobe Stock.

**Figure 1:** Amazon Web Services™ S3 logo © Amazon Web Services, Inc. All rights reserved.

**Figure 2:** Storage media types. Image: Adobe Stock

**Figure 3:** “Earthquakes Since 1898, by Magnitude” designed by John Nelson. Image © www.IDVsolutions.com. All rights reserved. Retrieved from <http://uxblog.idvsolutions.com/2012/06/earthquakes-since-1898.html>.

## Chapter 10

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**Figure 1:** *Gone With the Wind* poster. Image © Warner Bros. Entertainment Inc. All rights reserved.

**Figure 2:** “Checksumming Ulysses” © Spectra Logic Corporation.

## Appendix

**Figure 1:** “Digital Universe: Storage Worldwide” graph, taken from *Digital Data Storage Outlook 2016*, © 2016 Spectra Logic Corporation.



**Figure 2:** Photograph © Rusty Vision. Combined graphic © 2016 Spectra Logic Corporation.

**Figure 3:** “Media Tiers” chart © Spectra Logic Corporation. Images: Adobe Stock.

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**Figure 5:** “Shipments of HDDs by Seagate and Western Digital” graph. Image retrieved from <http://www.kitguru.net/components/hard-drives/anton-shilov/shipments-of-hard-disk-drives-hit-multi-year-low-in-q1-2015/>.

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**Figure 6:** “Areal Density Trends” graph © Information Storage Industry Consortium. All rights reserved.

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### Corrections:

Graph below was corrected as of May 31, 2016

