

CFR Resources

Steven J. Markovich, "[U.S. Broadband Policy and Competitiveness.](#)"
An accessible backgrounder on U.S. broadband policy (2000 words)

James McBride, "[Modernizing the U.S. Energy Grid.](#)"
An accessible backgrounder on the U.S. electricity grid that includes a section on the potential for cyberattacks (2,300 words)

Articles

Davey Alba, "[The World May Be Headed for a Fragmented 'Splinternet.'](#)" *Wired*, July 7, 2017.
An in-depth look at how national legislation may be pushing us toward a splinternet (1,100 words)

Ian Bogost, "[Welcome to the Age of Privacy Nihilism.](#)" *Atlantic*, August 23, 2018.
A pessimistic look at the current state of online privacy (2,800 words)

William J. Burns and Jared Cohen, "[The Rules of the Brave New Cyberworld.](#)" *Foreign Policy*, February 16, 2017.
Crucial questions on U.S. cyber strategy, posed by an industry expert and a former government official, after the 2016 election (3,000 words)

Brian X. Chen, "[I Downloaded the Information That Facebook Has on Me. Yikes.](#)" *New York Times*, April 11, 2018.
An examination of how much data internet companies collect about their users (1,800 words)

Andy Greenberg, "[The Untold Story of NotPetya, the Most Devastating Cyberattack in History.](#)" *Wired*, August 22, 2018.
An excerpt from the author's forthcoming book, *Sandworm*, on a Russian cyberattack that devastated facilities around the world (6,400 words)

Elias Groll, "[Trump Has a New Weapon to Cause 'the Cyber' Mayhem.](#)"

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Foreign Policy, February 21, 2018.

An analysis of President Donald J. Trump's National Cyber Strategy that argues the administration's new openness to offensive measures is problematic (800 words)

Seymour Hersh, "[The Online Threat](#)," *New Yorker*, November 1, 2010.

A long look at the risk of cyberwar, with view from both government figures and outside observers (6,500 words)

Will Oremus, "[Are You Really the Product?](#)" *Slate*, April 27, 2018.

A thoughtful examination of the idea that we should think of Facebook (and other free online products) as being in the business of selling user data to advertisers, rather than in the business of providing a service to users (3,500 words)

Nicole Perlroth, "[With New Digital Tools, Even Nonexperts Can Wage Cyberattacks](#)," *New York Times*, May 3, 2017.

An examination of ransomware, software used by criminals that encrypts targets' data and then extorts them in return for a promise to decrypt the data (1,500 words)

Nicholas Schmidle, "[The Digital Vigilantes Who Hack Back](#)," *New Yorker*, May 7, 2018.

A detailed look at cybercrime today, and one approach to combating it (5,900 words)

Alyza Sebenius, "[Writing the Rules of Cyberwar](#)," *Atlantic*, June 28, 2017.

An interview with the author of a book that argues that the line between offensive and defensive cyberweapons is hazy at best; an interesting companion to Elias Groll's article (2,500 words)

Kim Zetter, "[An Unprecedented Look at Stuxnet, the World's First Digital Weapon](#)," *Wired*, November 3, 2014.

Multimedia

Michael Barbaro, "[What Facebook Knew and Tried to Hide](#)," in *The Daily* (blog), *New York Times*, November 16, 2018.

A summary of how various actors have tried to use Facebook to

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influence American democracy and how Facebook has responded (29 minutes)

Carnegie Corporation of New York, "[U.S.-Russia Relations: Quest for Stability](#)," 2019.

An extensive collection of videos, timelines, and interactive maps and graphs about historical and current issues in U.S.-Russian relations.

Alex Gibney, [Zero Days](#).

A feature-length documentary on the Stuxnet virus (114 minutes)

Hyrax Films, [Terms and Conditions May Apply](#).

A look at how internet companies collect and use private data (80 minutes)

Telegeography, "[Submarine Cable Map](#)."

A detailed map of all submarine cables.

Books

Fred Kaplan, *Dark Territory: The Secret History of Cyber War* (New York: Simon & Schuster, 2016).

This book tells the history of cyberwar in a gripping, narrative-driven style (353 pages).

Morozov, Evgeny, *The Net Delusion: The Dark Side of Internet Freedom*, (New York: PublicAffairs, 2011).

This book analyzes the history of the internet, looking at how it is used by both governments and revolutionaries. 449 pages.

Segal, Adam, *The Hacked World Order: How Nations Fight, Trade, Maneuver, and Manipulate in the Digital Age*, (New York: PublicAffairs, 2017).

Written by a Council on Foreign Relations fellow, this book looks at a number of examples of cyberwar and analyzes the strategic implications. 313 pages.

P. W. Singer and Allan Friedman, *Cybersecurity and Cyberwar: What Everyone*

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Needs to Know (New York: Oxford University Press, 2014).

Written in a question-and-answer style and employing stories and anecdotes, this introduction is highly readable, but those who come with some knowledge of the internet already may find it simplistic (320 pages).

Kim Zetter, *Countdown to Zero Day: Stuxnet and the Launch of the World's First Digital Weapon* (New York: Broadway Books, 2014).

Written by a journalist, this book both tells the story of Stuxnet and examines the overall state of cyberwarfare today (448 pages).

Research

Center for Strategic and International Studies, [Significant Cyber Incidents](#).

Data on significant cyber incidents since 2006

Council on Foreign Relations, "[Cyber Operations Tracker](#)."

An interactive database of all publicly known state-sponsored cybersecurity incidents since 2005

Pew Research Center, "[Internet/Broadband Factsheet](#)."

A brief look at internet statistics

Pew Research Center, "[Home Broadband 2015](#)."

Detailed data and analysis on broadband use in homes across the United States

Purdue University Center for Regional Development, "[2016 Digital Divide Index \(DDI\)](#)."

An interactive map that displays statistics about internet usage at county level

UNICEF, "[The State of the World's Children 2017: Children in a Digital World](#)."

A report on data about internet usage among children around the world

Primary Sources

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U.S. Department of State, "[Pillars of the International Strategy for Cyberspace](#)" (archived).

An archived webpage that summarizes Barack Obama administration's cyberspace policy (500 words)

Xi Jinping, "[Remarks by H.E. Xi Jinping President of the People's Republic of China at the Opening of the Second World Internet Conference](#)," December 16, 2015.

Transcript of a speech on Chinese cyberspace policy given by Chinese President Xi Jinping (2,400 words)

White House, "[National Cyberstrategy of the United States of America](#)," September 2018.

The Donald J. Trump administration's cyberspace policy document (29 pages)