

## References and Resources

### [Explaining Research](#)

### [How to Reach Key Audiences to Advance Your Work](#)

### [Second Edition](#)

www.Explaining Research.com

#### Introduction references

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## Chapter 2 references: Plan your research communication strategy

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- [Marketing for Scientists](#) blog
- University of Alberta, "[How Social Media Helps Scientists Get the Message Across](#)," April 12, 2018

## Chapter 3 references: Give compelling talks

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- [Google URL Shortener](#)

- [Google Slides](#)
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- Interscience Publishers, "[Could Power Point Presentations Be Stifling Learning?](#)" June 12, 2009. [Keynote](#)
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- [NASA 3D Printable Models](#)
- [NIH 3D Print Exchange](#)
- [PowerPoint video training](#)
- [Prezi](#)
- [ScienceSlides](#)
- [SlideServe](#)
- [SlideShare](#), [Creator's Hub](#) for resources and tutorials
- [Snagit](#)
- [Thingiverse](#)
- [TinyURL](#)
- Warnakula, Sampath Sri, "[Top 25 SlideShare Alternatives To Create & Share Online Presentations](#)," SlideHelper.com, April 9, 2018.
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- [Best Public Speaking Apps](#) for improving preparation, body language, nerves, and delivery
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- Toastmasters, [Toastmaster's International Guide to Successful Speaking: Overcoming Your Fears, Winning over Your Audience, Building Your Business & Career](#)
- [Ummo](#) speech coaching app
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- Weinschenk, Susan, "[Your Hand Gestures are Speaking For You](#)," *Psychology Today*, September 26, 2012
- Winston, Patrick, "[How to Speak](#)" videos

### **Free sources for images, illustrations, animations, and videos**

- [Find a Photo](#) master search site for free and royalty-free stock photos, Chamber of Commerce.org
- [Amoeba Sisters videos, GIFs](#)
- [Astronomy Picture of the Day](#), NASA
- [Bugwood Network](#) insect and forestry images
- [CalPhotos](#)
- [CDC Image Library](#)
- [CDC Publish Health Image Library](#)
- [Cell Image Library](#)
- [DNA animations](#) by wehi.tv
- [From DNA to protein 3D](#) video
- [Free Nature Stock](#)
- [Giphy](#) animated GIFs
- [Gratisography](#)
- [EurekaAlert! multimedia gallery](#)
- [Free images](#) general stock shots
- [Free Science Animated Clipart](#)
- [Google Advanced Image Search](#)
- [HHS Image Galleries](#)
- [Hubble Space Telescope images](#)
- [Images in Your Blog Posts: Best Practices](#) includes many image sources
- [Kurzgesagt – In a Nutshell](#) science explainer animations
- [Life of Pix](#) photos and video
- [National Digital Library](#), U.S. Fish & Wildlife Service
- [Department of Energy and DOE national laboratories](#)

- [Giphy: Find and Share Animated GIFs](#)
- [How Stuff Works Web site illustrations, animations, and videos on science and technology](#)
- [Materials Research Society Science as Art image winners](#)
- [Microsoft Images](#) clip art, photos, and images
- [MorgueFile](#) general stock shots
- [Molecular Workbench](#)
- [NASA art gallery](#)
- [NASA images](#)
- [NASA video gallery](#)
- [National Institutes of Health Image Gallery](#)
- [NIH National Cancer Institute visuals online](#)
- [NIH National Institute for General Medical Sciences image gallery](#)
- [National Marine Sanctuaries Media Library](#)
- [National Science Foundation multimedia gallery](#)
- [NOAA Photo Library](#)
- [PhET interactive simulations for science and math](#)
- [Pixabay](#) free and royalty-free images and video
- [Public Domain Archive](#) photos
- [The Public Domain Project](#) free historic footage
- [Rgbstock](#) general stock shots
- [Twenty Animated GIFs That Explain How Things Work](#)
- [Unsplash](#) general high-quality stock shots
- [U.S. government master search page for images](#)
- [U.S. government YouTube channel for science & technology](#)
- [USDA Agricultural Research Service image gallery](#)
- [U.S. Fish and Wildlife Service National Digital Library](#)
- [Vecteezy](#) freevector art, stock photos & videos
- [Wellcome Images](#), more than 40,000 images from clinical and biomedical sciences
- [WEHI.TV](#) 3D biomedical animations, gifs and images
- [Wikimedia Commons](#) free images and video
- [YouTube](#)

**Commercial sources for images, illustrations, animation and video**

- [Adobe Stock](#)
- [a Luna Blue](#) stock video



- [Animation Factory](#) animated clip art, templates, backgrounds and videos. [Science/Medical PowerPoint backgrounds](#)
- [Bigstock](#)
- [depositphotos](#)
- [Earth: Portrait of a Planet](#)
- [eduMedia](#)
- [Envato Elements](#) subscription service for photos, video, presentation templates, website templates
- [Getty Images](#)
- [iStockphoto](#) photos, graphics, video, audio
- [Molecular Expressions Photo Gallery](#)
- [NVTech](#)
- [Offset](#) distinctive general stock shots
- [Pond5](#) photos, illustrations, video
- [Photos to Go Unlimited](#)
- [Pubic Domain Footage](#) archival footage
- [ScienceSlides](#)
- [Science Source](#) science and medicine stock photos, illustration and video
- [Shutterstock](#) photos, video
- [Wiley Interactive Concepts in Biochemistry](#)
- [XVIVO Scientific Animation](#)

### **PowerPoint and other presentation software and resources**

- Aoki, Shiz, [Top tips for better presentation figures!](#) BioRender tutorial
- [Add Color and Design to Your Slides with Themes](#), Microsoft
- Alley, Michael, "[Improve your PowerPoint](#)," February 12, 2010
- Atkinson, Cliff, [Beyond Bullet Points: Using PowerPoint to Create Presentations That Inform, Motivate, and Inspire](#), Microsoft Press
- [Bit.ly](#) URL shortener
- [Canva](#) presentation design software
- [Combining Colors in PowerPoint—Mistakes to Avoid](#), Microsoft
- [Crystal Graphics](#) PowerPoint plugins for templates, animations, 3D
- [eMaze](#) online presentation designer
- [GoogleDocs Presentations](#)
- [Haiku Deck](#) for iPad and web presentations
- [How to Insert 3D models into PowerPoint](#)
- [How to Embed Fully Interactive 3D Documents into PowerPoint](#) See also [ICM User's Guide](#)



- [Microsoft PowerPoint video training](#)
- [PDF3D for inserting interactive PDFs in PowerPoint](#)
- [Interactive PowerPoint](#)
- [LiveSlides](#) embeds live web content into slides
- Matthews, Dawn, [Best Free Video Editing Software](#) (with production tips), Avasam
- [Microsoft Photos](#)
- Molecular Modeling Basics: [Rotating molecules in Powerpoint](#)
- Molecular Modeling Basics: [Rotating molecules in Powerpoint - part 2](#)
- [123PPT.com](#) PowerPoint templates and video backgrounds
- [OpenOffice.org Impress](#)
- [Polyview-3D](#) for creating molecular models for presentations and web
- [Powered Templates](#) PowerPoint templates and video backgrounds
- [The PowerPoint FAQ](#)
- [PowerPoint Heaven](#)
- [PresentationPro](#)
- [Presenter](#) converts Powerpoint slides to eLearning content
- [Prezi](#) presentation software
- [Screencast-O-Matic](#) for recording action on a screen
- [Slidebean](#) for designing slide presentations
- [Screenflow](#) (Mac) for recording computer screen interaction, video, etc.
- [SlideRocket](#)
- [Snagit](#) for capturing and manipulating screen images
- [Snagit: Getting Started with Snagit](#) webinar
- [The SlideQuest](#) slides, presentation templates and infographics
- [Three Ways to Choose the Right Colors for Your Business Presentations](#), Presentation Process
- [TinyURL](#) URL shortener
- [Ummo](#) speech coaching app
- [Use Accessible Color and Styles in Slides](#), Microsoft
- [Venngage](#) for making infographics. Both free and paid versions
- [Visme](#) for producing visual slides and infographics. [See also this tutorial](#)
- [Whiteboard Explainer](#) PowerPoint Template creates animated whiteboard videos in PowerPoint
- Digital Inspiration, "[The Most Essential Tools for Presenters](#)"
- Tufte, Edward, [The Cognitive Style of PowerPoint: Pitching Out Corrupts Within, Second Edition](#)

- Wikipedia, "[Presentation Programs](#)"
- [Best free alternatives for Windows Movie Maker](#)
- [Zamzar](#) for converting file formats

#### **Apple iWork Keynote and other Mac resources**

- [Apple Keynote](#)
- [FlowVella](#) makes presentations online apps

#### **Audience response software for polling and Q&As**

- [Audience engagement tools for live events](#)
- [Audience response software](#)
- [Polling software](#)
- [AhaSlides](#)
- [Meeting pulse](#)
- [Mentimeter](#)
- [HQama](#)
- [Pigeonhole Live](#)
- [Sli.do](#)
- [Social Q&A](#)

#### **Sources for cartoons and humorous image creation**

- [Be-funky](#) software for creating photo effects
- [Cartoon Bank](#)
- [CartoonStock](#)
- [Dan Rosandich custom and professional cartoons](#)
- DesignCrowd [Photoshopped images](#)
- DesignCrowd [Nerdimals](#)
- [Einstein chalkboard sign generator](#)
- [Newspaper clipping generator](#)
- [Newspaper generator](#) (create fake newspaper page)
- [Pho.to](#) site for creating humorous photo effects
- [Photofunia](#) site for creating humorous photo effects
- [Sidney Harris cartoons](#)
- [Sign generators](#) (create amusing fake signs)
- [Uncle Sam "I WANT YOU" custom sign generator](#)
- [YouTube funny video caption generator](#)

#### **Software and Web sites for sharing presentations and other content**

- Agarwal, Amit, [Share your Presentation Slides with a QR Code](#)
- [Articulate Presenter](#)
- [authorStream](#)

- [Creating a slidecast using Slideshare](#) (Explains recording audio using Blackboard, but you can also use a link to an existing .mp3 file on the Web)
- [Echo360](#)
- [40 Interesting ways to use QR Codes in the Classroom](#)
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- [QR Code generator, basic](#) (Google)
- [QR Code generator](#) (Delivr) Free version enables personalization, tracking of QR code use. Paid version adds more sophisticated services
- [QR Code generator, basic](#) (Digital Inspiration)
- [QR Code generator, basic](#) (KayWa)
- [QR Code generator](#) for producing more sophisticated codes, including those that trigger an action
- [QR code generator](#) (ZXing)
- [QR Codes: How to Generate with bit.ly](#)
- [QRStuff.com](#) tools for QR codes
- [Screencast.com](#), free basic presentation-hosting service with inexpensive upgrade to more substantial storage, bandwidth
- [Slidecasting screencasts using Slideshare](#)
- [SlideShare](#) free hosting service for sharing PowerPoint presentations.
- [SlideServe](#), free hosting service for sharing PowerPoint presentations
- [Soundslides](#), software for producing audio Web slidecasts
- [Sonic Foundry's Mediasite](#)
- [TagmyDoc](#) for sharing documents via a QR Code on the document or a Powerpoint slide
- [Ventation](#) enables creation of synchronized video and slide presentations
- Warnakula, Sampath Sri, "[Top 25 SlideShare Alternatives To Create & Share Online Presentations](#)," SlideHelper.com, April 9, 2018.

### Science demonstrations

- Beaty, William, [Physics demos & Science Exhibit Designs](#)

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- [Frostbite Theater](#): Jefferson Laboratory Physics Video Demonstrations
- Ophardt, Charles E., ed., [Science Demonstrations, Elmhurst College](#)
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- [The Video Encyclopedia of Physics Demonstrations](#)

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- Jupiter Scientific [Science Jokes](#)
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- [Workjoke Profession Jokes](#)

## Chapter 4 references: Develop informative visuals

### Chapter references

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- [Adobe Illustrator](#)
- [Animate Your Science](#) graphics/animation design service
- Animate Your Science, "[How to Make Cool Animated Science Videos in PowerPoint](#)"
- Animate Your Science, "[Nothing Beats Video Abstracts for Summarizing Research](#)"
- Animate Your Science, "[Best Examples of Science Animations](#)"
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- [PowerPoint Heaven](#)
- [Prism](#)
- [Smartdraw](#)
- [Snagit](#)
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- [Venngage](#)
- [Visio](#)

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- Shutterstock, [The Meaning of Color in Cultures Around the World](#), October 30, 2020

### Tools and techniques for creating images and animations

- [Adobe Dimension](#) for 3D image creation
- Alison Courses, "[Photography](#)" ([List of other free online photography courses](#))

- Atkinson, Cliff, [\*Beyond Bullet Points: Using Microsoft PowerPoint 2007 to Create Presentations That Inform, Motivate, and Inspire\*](#), Microsoft Press, 2007
- [Biointeractive](#) collection of life science multimedia
- [BioRender](#) for creating publication-quality science illustrations. See also Aoki, Shiz, and Zeppa, Joseph, [Video: Design Principles 101: Top Figure-Making Tips to Boost Science Communication](#), AAAS meeting 2021
- [Beam](#) is a simple, free tool for creating basic charts and graphs from data
- [Build-a-Graphic](#) PowerPoint add-in for automatically creating graphics from text
- [Canva](#) web system for creating online and print graphics
- [Chart Chooser](#) collection of data visualization formats
- [ChemDraw](#) for illustrating molecules
- [Creately](#)
- [Chartle.net](#) for producing online charts
- Crooks, Ross, "[Why Most People's Charts & Graphs Look Like Crap](#)," Inbound Marketing, May 28, 2014
- [Digital Photography Basics—an Incredible Beginners Guide to Taking Great Photos](#) (Thanks to Sarah Johnson for the link!)
- [Exploratree](#) site for creating visual "thinking guides"
- Exposure Guide, [The Ultimate Macro Photography Tutorial for Beginners](#)
- [Extreme Presentation Method](#) for designing visualizations of information
- [EZGif](#) animated GIF maker and editor
- [Felix](#) from Adobe for creating photorealistic 3D images
- Flowing Data, "[What Visualization Tool/Software Should You Use? — Getting Started](#)," and [tutorials on data visualizations](#)
- Friedman, Vitali, "[Data Visualization: Modern Approaches](#)," Smashing Magazine, August 2, 2007
- [GIF Maker](#) makes GIFs from videos
- [GIPHY](#) gif collection
- [Google Chart Tools](#) for displaying live data on your site
- "[How to Create Animated GIFs Using Photoshop](#)," wikiHow
- [Infogram](#)
- [Infogramify](#) infographic templates
- [How to Embed Fully Interactive 3D Documents into PowerPoint](#)
- [Images in Your Blog Posts: Best Practices](#)
- [Imgflip](#) animated GIF maker

- [Imgur](#) gif maker offers video-to-GIF feature for posted videos
- [Lovely Charts](#), free Web-based tool for creating diagrams, flow charts and organizational charts
- [Lucidchart](#)
- [Macroscopic Solutions](#) macrophotography equipment and imaging services
- May, Tom, "[The Best Free Alternative to Adobe Illustrator 2018](#)," techradar, December 6, 2017
- [Microsoft Photos](#) for creating Ken Burns effect galleries
- [National Geographic How to take Macro Pictures](#)
- [makeagif](#) animated GIF generator (rated the best by *PC Magazine*)
- [Making Data Meaningful](#) guides for effective presentation of statistics, United Nations Economics Commission for Europe
- Meredith, Dennis, "[Use Infographics to Explain Your Work](#)," [Research Explainer](#), December 2011
- [Molecular Workbench](#) for visual simulations
- Myers, Louise, "[How to Create an Infographic People Will Rave About!](#)," Louise Myers Visual Social Media, August 22, 2016
- [National Geographic Digital Photography Tips](#)
- Panorama maker [Bubbli](#) for iPhone, iPad
- [Panorama Maker Pro](#) for combining images into panoramas
- [Panorama Studio](#) for combining images into panoramas
- [Panoweaver](#) for creating panoramic images
- Parkinson, Mike, Video: [Graphics That Just Don't Work](#)
- PetaPixel, "[The Best Free Online Photography Courses and Tutorials](#)
- Photo Contest Insider, "[4 Best, Must-Take Free Online Photography Courses](#)"
- [PTGui](#) panorama stitching software
- [Periodic Table of Data Visualization Methods](#)
- [Picasion](#) animated gif generator
- PowerPoint Spice, "[Cool Zoom Animation Effect: PowerPoint Animation Tutorial](#)"
- [Polyview-3D](#) for creating molecular models for presentations and web
- [Proteopedia](#) 3D encyclopedia of proteins and other molecules
- Sahakians, Sandrine, "[12 Tools to Create an Infographic in 30 Minutes](#)," Buffer Marketing Library
- [ScienceSlides](#) professionally designed, editable slides



- Schmidt, Gregory, "[Create You Tube-Worthy Videos With a Few Simple Tools](#)," *The New York Times*, March 9, 2016
- [Smartdraw](#) visual processor
- [Snagit](#) for capturing and manipulating screen images
- [Snagit: Getting Started with Snagit](#) webinar
- [The Noun Project](#) collection of icons and images
- [The Ultimate Savings Guide for Beginner Photographers: 50+ Tips and Resources](#) (Thanks to Hannah for the link!)
- Tirosh, Udi, "[The Comprehensive Guide to Macro Photography](#)," DIY Photography
- United Nations Economic Commission for Europe, [A Guide to Presenting Statistics](#), (part of [Making Data Meaningful guide series](#))
- [Top Five 3D Molecular Visualization Technologies](#)
- [Venngage](#) for making infographics. Both free and paid versions
- [Visio](#) for creating diagrams and flowcharts
- [Visme](#) for producing visual slides and infographics.
- Walgrove, Amanda, "[The Pros, Cons, and Costs of the Top 5 DIY Infographic Tools](#)," *The Freelancer*, September 1, 2016
- [Wow Slider](#) for creating moving image galleries and other effects for websites
- [Windows Movie Maker](#) (Need to purchase Pro version for full features)
- [Wondershare Filmora](#) for creating Ken Burns effect slide show
- [Best free alternatives for Windows Movie Maker](#)
- [XVIVO Scientific Animations](#)
- [12 Best Online Photography Courses, Schools & Degrees](#) from [Online Courses Review](#)

### **Science and medical illustrators**

- [16 Medical Illustrators Doing Groundbreaking Work](#)
- [AXS Studio](#) science and medical illustrations, animations, and interactive experiences
- [Background Stories](#) data visualization services
- [LetPub](#) scientific illustration
- [SClstyle](#) scientific illustration
- [Somersault18:24](#) scientific illustration, cover art

### **Resources for VR and AR app development**

- [Arkitek Scientific](#)
- [AXS Studio](#) medical illustrations, animations and interactive experiences

- [Brio](#) VR and AR company
- Caltech News, "[Virtual Reality for Scientists](#)," October 4, 2019
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- [3D for Science](#) medical illustration, animation, VR, and AR apps
- [Virtualitics](#) VR company
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- [Amoeba Sisters animated videos and GIFs](#)
- [Be-funky](#) software for creating photo effects
- [Cartoon Bank](#)
- [CartoonStock](#)
- [Dan Rosandich custom and professional cartoons](#)
- [DesignCrowd](#) collection of highly creative Photoshopped images

- [Einstein chalkboard sign generator](#) (add your own text)
- [Newspaper generator](#) (create fake newspaper page)
- [Pho.to](#) site for inserting people's images into amusing scenes
- [PhotoFunia](#) for inserting people's images into amusing scenes
- [Sidney Harris cartoons](#)
- [Sign generators](#)
- [Uncle Sam "I WANT YOU" custom sign generator](#) (add your own text)
- [YouTube funny video caption generator](#)

## Chapter 5 references: Create effective poster presentations

### General references

- [Betterposter](#) downloadable poster templates
- Colorado State University, [Guide to Poster Sessions](#)
- eHow, [How to Prepare a Proper Scientific Poster](#)
- [ePostersLive](#) online posters
- Greenfieldboyce, Nell, "[To Save the Science Poster, Researchers Want to Kill it and Start Over](#)," NPR, June 11, 2019.
- Hess, George, Tosney, Kathryn and Liegel, Leon, [Creating Effective Poster Presentations](#)
- [iPosters](#) service for creating interactive multimedia conference posters
- Kuchner, Marc, "iPosters and Betterposter: [How to Create a Conference Poster That People Want To Read](#)," [Marketing for Scientists](#), February 9, 2020
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- Morrison, Mike, [Betterposter template](#)
- Purrington, Colin, [Designing Conference Posters](#)
- [Pimp my Poster](#) discussion/critique group for posters
- University of Washington, [How to Make a Poster Using PowerPoint](#)

## Chapter 6 references: Write clear research explanations

### Chapter references

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- [Thesaurus.com](#)
- [Thinkmap Visual Thesaurus](#)
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- [WordWeb Pro](#)

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### Web hosting reviews and companies

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- [Hosting Reviews](#)
- [FatCow](#)
- [Hostgator](#)
- [HostMonster](#)
- [Ionos](#)
- [JustHost](#)
- [Network Solutions](#)
- [OneWorld Hosting](#)
- [Yahoo Hosting](#)

### **Companies and sites offering Web site design tools and services**

- Art of Blog, [Ultimate Guide to Blog Readability](#)
- [Dynamic Drive](#) DHTML and Javascript tools to enhance Web sites
- [Envato Elements](#) subscription service for photos, video, presentation templates, website templates
- [Freewebs](#)
- [99Designs](#) web site design marketplace
- [Rapidweaver](#)
- [Sitecube](#)
- [Squarespace](#)
- [TemplateMonster](#)
- [Web Aim](#) site for determining web content accessibility for people with disabilities
- [Weebly](#)
- [Yola](#) for creating websites

### **Web search engines for submitting sites**

- [Google Submit Your Content](#)
- [MSN Bing URL submission](#)
- [Yahoo!](#)

### **Web sites for content, background information, and link lists**

- (See [Chapter 3 references](#) for list of sources of free images, illustrations, animations, and videos.)
- [Academic Earth](#) video lectures
- [Academic Research and Education Links Database](#), BestVPN.org
- [American Academy of Pediatrics](#)
- [American Astronomical Society](#)
- [American Cancer Society](#)

- [American College of Obstetricians and Gynecologists](#)
- [American College of Physicians Foundation](#)
- [American College of Surgeons](#)
- [American Physical Society](#)
- [Kids Research and Education Links Database](#), BestVPN.org
- [Brain Facts](#), from the Society for Neuroscience
- [Brain Map](#) Open Colleges interactive brain map infographic showing function of each brain area
- [Cancer.Net](#)
- [Canon Science Lab: Light](#)
- [Centers for Disease Control and Prevention](#)
- [Department of Energy](#)
- [Discovery Channel](#)
- [Encyclopedia.com](#) information from multiple reference works
- [EurekaAlert!](#)
- [Exploring Life's Origins](#), Boston Museum of Science
- [Getty images free](#) for embedding on web sites, etc.
- [Google Alerts](#)
- [Google Maps](#)
- [Healthline](#) overviews of health conditions
- Howard Hughes Medical Institute [Cool Science](#)
- [How Stuff Works](#)
- [Interactive Concepts in Biochemistry animations](#), Wiley, 2006
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- [MedlinePlus](#)
- [MicrobeWorld](#)
- [NASA](#)
- [National Geographic](#)
- [National Institutes of Health](#)
- [Neuroscience for Kids](#)
- [OnlineCourses.net](#) comprehensive listing of free online courses and discussion group
- [PhET](#), online simulations in physics, chemistry, math, biology, and earth science
- [Physics](#), American Physical Society online magazine
- [PhysicsCentral](#), American Physical Society



- [Science News](#)
- [Scitable](#) science reference and learning environment
- [Society for Neuroscience](#)
- [Tech-FAQ](#)
- [Wikimedia Commons](#) free images and video
- [Wikipedia](#)

### **Web tools for monitoring traffic and optimizing search engine visibility**

- [Alexa](#)
- [CrazyEgg](#) tools for visualizing Web site analytics
- [Flickr](#)
- [Google Webmaster tools](#)
- [Google Analytics](#)
- [Link Popularity](#)
- [Web CEO](#)
- [Yahoo Search resources](#)

## **Chapter 8 references: Develop your lay-level research communication strategy**

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- Meredith, Dennis, "[Monkey Pay-Per-View" Study Could Aid Understanding of Autism](#)," Duke Medical Center news release, January 28, 2005.
- Meredith, Dennis, "[Monkeys Consciously Control a Robot Arm Using Only Brain Signals; Appear to "Assimilate" Arm as if it Were Their Own](#)," Duke Medical Center news release, October 13, 2003
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### Chapter references

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- [Microsoft Photos](#)
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- [Luminar 4](#) photo editing software
- [Macroscopic Solutions photomacrography system](#)
- [National Geographic Digital Photo Tips](#)
- [Nikon MicroscopyU](#) tutorials on microscopy and imaging
- PetaPixel, "[The Best Free Online Photography Courses and Tutorials](#)"
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- [Photography tips and tutorials](#) from Photo.net
- Tirosh, Udi, "[The Comprehensive Guide to Macro Photography](#)," DIY Photography
- [12 Best Online Photography Courses, Schools & Degrees](#) from [Online Courses Review](#)

### Exemplary image galleries

- [Astronomy Picture of the Day](#), NASA
- [Duke University Photography Research Image Gallery](#)
- [Molecular Expressions Photo Gallery](#)
- [The New York Times Multimedia/Photos pages](#)
- [Nikon Small World Competition](#)
- [Nikon MicroscopyU](#)
- [Princeton Art of Science competition](#)

### Slide show, photo album, online tour and slide-sharing software

- [Animoto](#) creates music-video-style presentations from still images
- [Articulate 360](#)
- [authorStream](#)
- [CampusTours.com](#)
- [Impatica](#)
- [Microsoft Photos](#)
- [SlideShare](#)
- [Soundslides](#)

### Panoramic image software, articles, and examples

- [GigaPan](#)
- [IPIX](#)
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- 360cities, "[How to Get Started on 360-Degree Photography.](#)"
- Frich, Arnaud, "[The Guide to Panoramic Photography.](#)"
- [Video tutorials on how to create 360-degree panoramas](#)

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- Media College "[Embedding a Streaming Video in a Web Page](#)"
- [Media College Video Tutorials](#)

- [NOVA ScienceNow](#)
- Stockman, Steve, [How to Shoot Video That Doesn't Suck: Advice to Make Any Amateur Look Like a Pro](#), Workman Publishing, 2011.
- [YouTube Creators](#)

### **Homemade and inexpensive video production devices**

- [Basics of Green Screen](#)
- [Do it yourself video support gear](#)
- [DIY iPhone tripod](#)
- [Getting the Best Green Screen Chromakey lighting setup on a budget](#)
- [Gimbowl](#) remote-control smartphone holder
- [Making a \\$4 Dollar Store DIY Teleprompter](#)
- [Pivo](#) remote-control smartphone holder
- [Robot-Cameraman](#) smartphone camera controller
- [Selfie ring light with tripod stand and cell phone holder](#)
- [SmartMike](#) wireless microphone
- [Smove](#) smartphone video stabilizer
- [StayblCam](#) smartphone video stabilizer
- The Beat, [5 DIY Filmmaking Gear Tutorials](#), April 8, 2016
- [The Ultimate Small Room Greenscreen Guide](#)

### **Tutorials, software, and tips for shooting video**

- [About.com Desktop Video](#)
- [Celtx](#) preproduction management software
- Coelho, Sherwin, "[10 Simple Tips to Make Home Videos Look Professional](#)," Makeuseof.com, January 18, 2017
- *Consumer Reports*, "[Camcorder Buying Guide](#)" (subscription required for ratings)
- *Consumer Reports*, "[Digital Cameras for Video](#)"
- *Consumer Reports*, "[How to Shoot Better Video with a Smartphone](#)"
- [Creating video lectures with iSpring Pro](#)
- [DVcreators.net](#)
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- [Skype](#) video calling software
- [Skype video recording software](#)
- Stockman, Steve, [VideoThatDoesntSuck.com](#) website for lessons and resources
- [StreamingMedia.com tutorials on shooting video for the Web](#)
- Techsmith Academy [free tutorials on planning and shooting video](#)
- Techsmith, [The Best Script Writing Strategy When You're Just Getting Started With Andy Owen and Justin Simon](#)
- [The Scientist Videographer Youtube Channel](#)
- [Video tools for recording, presenting, and editing videos.](#) Includes tools for doing time-lapse and interactive videos. Poynter
- [Video University articles on video production](#)
- Wilson, Tracy V., "[How Streaming Video and Audio Work](#)," How Stuff Works
- [YouTube Creators](#)

### **Video production, editing and conversion software and tutorials**

- [Adobe Premiere Pro Design Center: Tutorials](#)
- [Animoto](#) creates music-video-style presentations from still images and video
- [Best free alternatives for Windows Movie Maker](#)
- [Camtasia](#) for recording, editing videos and capturing screen video
- [Corel VideoStudio Pro 2021](#)
- [CyberLink PowerDirector16](#) editing software
- [Final Cut Pro](#)
- Matthews, Dawn, [Best Free Video Editing Software](#) (with production tips), Avasam
- [Using Final Cut Pro X to create Ken Burns effect](#)
- [iMovie for Macs](#)



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- [MPEG Squared Five Streamclip](#) video converter, player, and editor
- [OpenShot Video Editor](#)
- [Pinnacle Studio 24](#)
- Top Ten Reviews, [Video Editing Software Reviews, 2021](#)
- [vMix](#) for video production

### **Sources for footage**

(In addition to these, see the [references for chapter 3](#) for an extensive list of free and commercial sources of images, illustrations, animations, and videos.)

- [Google Advanced Video Search](#)
- [NASA video gallery](#)
- [The Public Domain Project](#) free historic footage

### **Examples of news, lecture, demonstration, and interview videos**

- [Discovery Channel](#)
- [Forum Network](#) PBS/NPR online lecture video service
- [IEEE Spectrum Video](#)
- [Kent's Video Chemical Demonstrations](#)
- [MIT Open Courseware](#)
- [National Geographic videos](#)
- [Nature YouTube video channel](#)
- [Nova ScienceNow](#)
- [Open Education Resource Commons](#)
- [Open Yale Courses](#)
- [YouTube](#)

### **Outlets for syndicating and sharing videos**

- [DNAtube](#)
- [Freevlog](#) videoblogging site
- [Journal of Visualized Experiments](#)
- [ScienceHack](#)
- [TeacherTube](#)
- [YouTube](#)
- [Vimeo](#)
- [We Share Science](#)

### **Slidecasting and multimedia systems for sharing lectures**

- [Articulate Studio 360](#)
- [Echo360](#)

- [Screencast.com](http://Screencast.com)
- [SlideShare](http://SlideShare) free hosting service for sharing PowerPoint presentations and video
- [SlideServe](http://SlideServe) free hosting service for sharing PowerPoint presentations
- [Sonic Foundry's Mediasite](http://Sonic Foundry's Mediasite)
- [Zentation](http://Zentation) enables creation of synchronized video and slide presentations

## Chapter 14 references: Organize dynamic multimedia presentations

### Chapter references

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- [CampusTours](http://CampusTours)
- [National Geographic](http://National Geographic)
- [Nova](http://Nova)

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- [EurekAlert RSS Feeds](http://EurekAlert RSS Feeds)
- [EurekAlert Trending newsletter](http://EurekAlert Trending newsletter)
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- [Bit.ly](#) URL shortening service
- [Bronto](#)
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### Podcasting hardware and sound editing services and software

- [ACID Music Studio 10](#)
- [Adobe Audition](#)
- [Audacity](#)
- [Avid Pro Tools](#)
- [Audio Acrobat](#)

- [Apple Logix Pro X](#)
- [Electro-Voice RE50/B Microphone](#)
- [JK Audio Broadcast Host Digital Hybrid](#)
- [Magix Audio Cleaning Lab](#)
- [Sound Forge Audio Studio](#)
- [Type Studio](#) transcribes podcasts to enable editing just by editing text
- [WavePad Audio Editing Software](#)
- [Zoom H4N Handy Recorder](#)

### **Podcast production, syndication, and distribution services**

- [Apple iTunes Store](#)
- [BlogTalkRadio science](#)
- [Liberated Syndication](#)
- [Spreaker](#)

### **Wiki sites and resources**

- [Confluence](#)
- [PBWiki/PBworks](#)
- [Wikipedia](#)
- [Wikipedia comparison of wiki hosting services](#)
- [Wikipedia explanation of wikis](#)
- [Wikibooks](#) textbook community
- [Wiki.com](#)
- [Wiki.org](#)

### **Social networking sites**

- [Academia.edu](#) for sharing papers
- [Facebook](#)
- [Flickr](#) photo-sharing site
- [Google Scholar](#)
- [HubPages](#)
- [Instagram](#) for sharing photos and videos
- [LabRoots](#) scientific social network
- [Linkedin](#)
- [Meetup](#)
- [Mendeley](#) reference-sharing and networking site
- [Mix](#) social bookmarking site
- [NASA social networking sites](#)
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- [ResearcherID](#) for managing professional profile
- [ResearchGate](#) networking site
- [Twitter](#)
- (Yahoo Groups has shut down. Here's a good [guide to alternatives, by Katie Horne.](#))
- [YouTube](#)
- [YouTube Help](#)

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- [2020 Social Media Image Sizes Cheat Sheet](#)
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- Blogger Help, "[Help People Find Your Blog on Search Engines.](#)"
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- [Blog Name Generator.](#) Business Name Generator.net.
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- [WordPress](#)

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- [The New York Times blogs](#)
- [Public Library of Science blogs](#)
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- [Science News blogs](#)

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- [The Complete Guide to Twitter Hashtags for Education](#)

### Twitter sites and tools

- [Bit.ly](#) URL shortening service
- [dlvr.it](#) automated social media manager
- [HootSuite](#) Web-based system for managing multiple Twitter accounts
- [NASA Social Media](#)
- [NetLingo](#) Internet Dictionary
- [Plurk](#)
- [SocialOomph](#) for managing and scheduling social media
- [Tumblr](#)
- [TweetDeck](#) for managing Twitter feeds
- [TweetGrid](#) search dashboard for monitoring topics, events, etc.
- [Twhirl](#) desktop application for managing social network accounts
- [Twilert](#) service for monitoring Twitter
- [Twitter](#)
- [How to use Twitter lists](#)
- [Twitter basics](#) guide for business users
- [Twitter Guide Book](#), Mashable
- [Twitter in plain English](#)
- [Twitter search](#)
- [Twittermail](#) provides email address for posting Tweets
- [Twitter Mars Phoenix](#)

- [twtpoll](#) polls via Twitter
- [twtsurvey](#) polls via Twitter
- [Wikipedia article on microblogging](#)
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### **Social bookmarking sites and resources**

- [AddThis](#) service enables one-button sharing of content with multiple bookmarking sites
- [Digg](#)
- [Del.icio.us](#)
- [Mix](#)
- [Reddit](#)
- [Social bookmarking](#), Wikipedia

### **Web meeting resources and software**

- [Best Video Conferencing Apps and Software for Accessibility](#)
- [Best Video Conferencing: Join.Me vs GoToMeeting vs WebEx vs Zoom vs Skype vs TeamViewer vs AnyMeeting](#)
- [Which is More Secure: Zoom Vs Skype Vs Teams Vs Webex Comparison](#)
- [Zoom Vs Microsoft Teams, Google Meet, Cisco Webex and Skype: Choosing the Right Video-Conferencing Apps for You](#)
- [Zoom vs GoToMeeting: Which is the Best Video Conferencing Solution?](#)
- [Adobe Connect](#)
- [Beyond Built-in: Why a Better Webcam Matters](#)
- [BigMarker](#)
- [Elgato green screen](#)
- [Emart Photo Studio Backdrop](#)
- [eShow](#)
- [Eventsforce](#)
- [GoToMeeting](#)
- [GoToWebinar](#)
- [Green screen backdrop](#)
- [How to build a Zoom Virtual Background with Your Brand Logo, Thinktiv web tool](#) for creating a logo background
- [How to Look Good on Camera](#), Techsmith
- [How to Look Good on Video Calls for Zoom, FaceTime, Skype](#)
- [How to Look Good on Zoom](#), Katie Fehlinger
- [How to Remove Video Background without Green Screen](#)
- [How to Use a Script on Zoom](#), Katie Fehlinger

- [How to use a green screen with Skype](#)
- [How to use ManyCam for green screen](#)
- [Inexpensive Video Conferencing Lighting Solutions](#)
- [Livestorm](#)
- [ManyCam](#) streaming production software
- [Open Broadcaster Software](#) for video recording and live streaming
- [On24](#)
- [Skype](#) video calling software
- [SparkoCam](#) virtual webcam for creating a green screen
- [vMix](#) streaming production software
- [Using vMix to create a Chroma Key Green Screen](#)
- [WebEx Meeting Center](#)
- [WebEx/ Skype/ Zoom - Background removal - for PC](#)
- [Webinar software comparison site](#)
- [Web and Video Conferencing Software Overview](#)
- [WebAround](#) green screen
- [Zoho Meeting](#)
- [Zoom](#)
- [Zoom accessibility features](#)
- [Zoom accessibility features and ADA compliance \(video\)](#)
- [Zoom closed captioning and live transcription](#)
- [Zoom: Hardware Solutions for your Hybrid Meetings](#)
- [Zoom Hosting Large Events: Webinars Vs. Meetings](#)
- [Zoom: Getting Started with Zoom Rooms](#)
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#### **Online survey tips, software, and reviews**

- [CHECKBOX](#)
- GreatBrook, [Tips for Selecting an Online Survey Software Tool](#)
- [QuestionPro](#)
- [QuestionPro Survey Design Tips](#)
- [SurveyMethods](#)
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- [Scientific American](#)

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- [The Conversation](#)

### Editing and proofreading software

- [Grammar Coach](#)
- [Grammarly](#)
- [Hemingway Editor](#)
- [ProWritingAid](#)
- [Style Writer](#)
- [WhiteSmoke](#)

### Journalism organizations

- [American Medical Writers Association](#)
- [Authors Guild](#)
- [National Association of Science Writers](#)
- [Society of Environmental Journalists](#)

### Books, articles, and websites on science writing and journalism

- Blum, Deborah, Ashley Smart, and Tom Zeller Jr., eds. [A Tactical Guide to Science Journalism](#). Oxford University Press 2022.
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- [The Open Notebook Science Journalism Master Classes](#), free online classes
- [The Open Notebook Pitch Database](#), searchable database of successful pitch letters
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- [Writer's Market](#)

### Magazine and website author guidelines

- [American Scientist](#)
- [Bioscience](#)
- [Huffington Post](#)
- [New Scientist](#)
- [Popular Science](#)
- [Psychology Today](#)
- [Salon](#)
- [Science](#)
- [Scientific American](#)
- [Sky & Telescope](#)
- [Smithsonian](#)
- [The Conversation](#)
- [The Scientist](#)
- [Undark](#)
- [Vox](#)

### Online article sites



- [EzineArticles](#)
- [Payloadz](#)

### Illustrations of "grabber" feature beginnings

- Tell a story about someone involved in the article: "[Allergy Action](#)" (lede only)
- Craft a 'what if' scenario: "[Sound Thinking](#)"
- Describe a moment of discovery, reconstructed from an interview: "[Unearthing Ostensible Ancestors](#)" (lede only)
- Describe a vignette of field work: "[Tweet Mystery of Life](#)" (lede only)
- Describe a treatment or other process: "[Internal Affairs](#)" (lede only)

## Chapter 17 references: Author popular books

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### General references

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- [Amazon listing for books on book marketing](#)
- Franklin, Jon, [Writing for Story: Craft Secrets of Dramatic Nonfiction](#), Penguin Books, 1994
- [Jane Friedman website](#), offers newsletters, tools and resources for authors
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- Reedsy, "[The Complete Guide to Writing a Book Proposal](#)," August 15, 2018
- [Writers Digest online tutorials](#) covering a wide range of publishing topics

## Chapter 18 references: Become a public educator

### Chapter references

- AAAS [Center for Public Engagement with Science & Technology](#)
- AAAS [SciLine](#)
- [Association of Science and Technology Centers](#)
- [ASTC Science Center Statistics 2016](#)
- [Center for Informal Learning and Schools](#)
- [HHMI education programs](#)
- [National Science Teachers Association](#)
- NIH Office of Science Education, [NIH Curriculum Supplements](#)
- [NSF Directorate for Education and Human Resources](#)
- [Salk Institute education outreach](#)
- [Science and Entertainment Exchange](#) of the National Academy of Sciences
- [Science Cafés](#)

### General references, resources and opportunities for involvement

- [AAAS annual meeting](#)
- [Adopt-a-Physicist](#)
- [Association for Women in Science](#)
- [Biointeractive](#), Howard Hughes Medical Institute resources for science education
- [Car and Vehicle STEM experiments](#) visual guides for experiments explaining car functions
- [Center for Informal Learning and Schools](#)
- Chittenden, David; Farmelo, Graham; and Lewenstein, Bruce V. (eds), [Creating Connections, Museums and the Public Understanding of Current Research](#), AltaMira Press, 2004
- [27 Best Coding Online Bootcamps](#), [Guru 99](#)
- [Coding Bootcamps and Certificates](#), [Are Coding Bootcamps Worth It?](#), [Best Online Coding Bootcamps](#), [BestColleges](#)
- [College Guide for Students with Disabilities and Their Parents](#), [IvyPanda](#) blog (Thanks to Yvonne McQuarrie for the link!)
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- [Earthwatch Institute](#)

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- [Girls Develop It](#)
- [Girls Who Code](#)
- [HHMI education programs](#)
- HomeAdvisor, [Home Energy Conservation for Kids](#) resource collection
- [Kids' Coding Activities Guide](#), Router-Network.com (Thanks to Hailey Dawn Stratton for the link!)
- [Kids' Computer Basics: Keyboarding](#), Router-Network.com (Thanks to Hailey Dawn Stratton for the link!)
- [Kid's Online Learning Tools for Science, Technology and Beyond!](#), Best Kid Stuff (Thanks to Hannah Nelson for the link!)
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- [League of Women Coders](#)
- [NIH National Institute for General Medical Sciences Science Education Resources](#)
- NIH Office of Science Education, [NIH Curriculum Supplements](#)
- National Institute of Environmental Health Sciences, [Science Education web site](#)
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- [Neuroscience for Kids](#)
- [OnlineCourses.net](#) comprehensive listing of free online courses and discussion group
- [Online Learning: Resources for Science Classes](#) (Thanks to Ava Williams for the link!)
- Open Education Database [Free Online Science Classes](#)
- [Periodic Videos](#): interactive periodic table with a video lesson about each element
- [PhET](#), online simulations in physics, chemistry, math, biology, and earth science

- [Physics of Bumper Cars](#) (Thanks to Liam Barnes for the link!)
- Praxent, [An Overview of Popular Programming Languages](#) (Thanks to Andrea Gomez and her Brownie Scouts for the link!)
- [Project Exploration](#) youth research programs
- [Salk Institute education outreach](#)
- SaveOnEnergy.com, [Kinetic and Potential Energy Guide](#)
- [Science Cafés](#)
- [Science and Entertainment Exchange](#) of the National Academy of Sciences
- [Science Experiments Around the Home](#) (Thanks to Jeremy Morgan for the link!)
- [Sigma Xi chapter model programs](#)
- [Space: The Best Games and Resources](#), Wordfinder (Thanks to Jess Dubois for the link!)
- [Space Games for Kids](#) (Thanks to Zane Robertson for the link!)
- [Supercourse](#), a global repository of lectures on public health and prevention
- [Software Programming and Coding Glossary for Kids](#), SmartAdvocate blog (Thanks to Hannah Nelson for the link!)
- [TeacherTube](#) an online community for sharing educational videos
- [The Science Behind Glass](#)
- [The Science Behind Glow in the Dark Toys and Materials](#) (Thanks to Sam for the link!)
- [TryScience](#) gateway to science and technology centers, including [opportunities for researcher involvement](#)
- [Understanding Science](#), resource for teachers from the [Coalition on the Public Understanding of Science](#)
- [What You Need to Know About the World Around You](#) booklet series of the National Academies
- [Women in Science and Engineering](#), Nationwide Lifts
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- [Women in Science: Forging New Pathways in Biology](#), *Science Magazine* and L'Oreal Foundation, 2011

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- [\*The Psychology of Climate Change Communication\*](#), Center for Research on Environmental Decisions, 2015
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#### **Scientific society and governmental legislative affairs units and education resources**

- [AAAS Office of Government Relations](#)
- [AAAS Shaping Science Policy](#)
- AAAS [ScienceInsider](#) policy blog
- [American Academy of Pediatrics](#)
- [American Astronomical Society Public Policy Page](#)
- [American Chemical Society](#)
- [American Geophysical Union](#)

- [American Physical Society](#)
- [American Physiological Society](#)
- [Association for Women in Science Advocacy and Public Engagement](#)
- [Association of American Universities](#)
- [COMPASS Communication Tools & Resources](#)
- [DOE Office of Congressional and Intergovernmental Affairs](#)
- [Federation of American Societies for Experimental Biology, Policy & Government Affairs](#)
- [NIH Office of Legislative and Policy Analysis](#)
- [NSF & Congress](#)
- [NSF Office of Legislative & Public Affairs](#)
- [National Science Teachers Association](#)
- [Society for Neuroscience Advocacy Network](#)

#### **General research advocacy groups**

- [Coalition for National Science Funding](#)
- [Council on Governmental Relations](#)
- [National Association for Biomedical Research](#)
- [STEM Education Coalition](#)
- [Task Force on the Future of American Innovation](#)
- [The Science Coalition](#)

#### **Issue advocacy groups**

- [Audubon](#)
- [Center for Science in the Public Interest](#)
- [Environmental Defense Fund](#)
- [Friends of the Earth](#)
- [Mars Society](#)
- [NASA Watch](#)
- [National Wildlife Federation](#)
- [Natural Resources Defense Council](#)
- [Ocean Champions](#)
- [Planetary Society](#)
- [Space Politics](#)
- [Union of Concerned Scientists](#)

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- BeBusinessEd, [How to contact Congress](#)
- [Congressional committees](#)

- [Science & Policy links](#), National Science Foundation
- [Office of Management and Budget](#)
- [Office of Science and Technology Policy](#)
- [U.S. House of Representatives committee offices](#)
- [U.S. House of Representatives Committee on Science, Space and Technology](#)
- [U.S. Senate Committee on Commerce, Science and Transportation](#)
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- American Geophysical Union [Sharing Science](#) program
- [COMPASS Communication Tools & Resources](#)
- [COMPASS communication training](#)
- Cornell University [Science Communication Workshop](#)
- [Dennis Meredith communication workshops](#)
- [Help a Reporter Out](#)
- [PitchRate.com](#)
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- [COMPASS Communication Tools & Resources](#)

### **Media training organizations**

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- [Alan Alda Center for Communicating Science](#)
- [COMPASS communication training](#)
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#### **Experts lists and services for journalists**

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- [PitchRate.com](#)
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- [IEEE Spectrum Podcasts](#)
- [Nature podcasts](#)
- [The New York Times podcasts](#)
- [NPR science stories](#)
- [NPR Science Friday programs and podcasts](#)
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