

Learning Resources

# Critical thinking

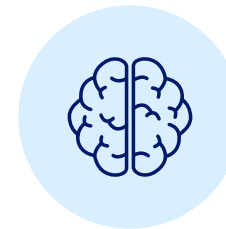
Building confident minds

**With more information at our fingertips than ever, it is crucial that students develop sound critical thinking skills to recognize trustworthy content from the rampant misinformation spreading throughout society.**

**Fostering critical thinking skills is baked into all of the textbooks and resources we publish and something that we approach head-on in our courses and skills content. We believe it is one of the greatest transferable skills that students can build during their academic journey.**

As a global independent publisher, our mission is to enable experts who create useable knowledge through observation, problem solving, analysis, sound reasoning, and quality communication – the building blocks of critical thinking.

From traditional text to video, interactive skills and online course content, **Sage Learning Resources** include essential critical thinking content in a variety of formats to fit every learning preference. From evaluating sources to learning to craft an argument to recognizing fallacies, students will find resources to help them thoughtfully navigate the information overload we often face.



**What is critical thinking?**



**Evaluating sources**



**Critical reading and writing**



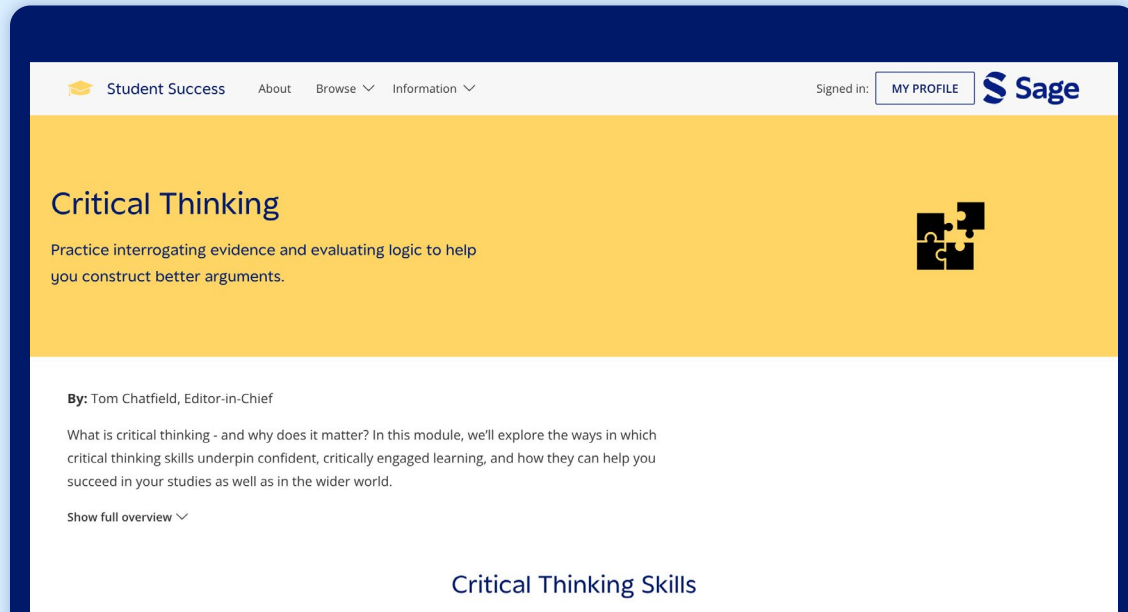
**Data literacy**



**Recognizing bias and fallacies**

# What is critical thinking?

Critical thinking can be as simple as stopping to think twice about something rather than accepting a statement at face value. Does the evidence support the claims being made? Has research been conducted with sound methods? By learning about the fundamentals of critical thinking and practicing these skills, students will learn when to interrogate a claim or argument based on the facts and data.



The screenshot shows a Sage website page for 'Critical Thinking'. The header includes 'Student Success', 'About', 'Browse', 'Information', 'Signed in: MY PROFILE', and the Sage logo. The main content area has a yellow background with the title 'Critical Thinking' and a sub-headline: 'Practice interrogating evidence and evaluating logic to help you construct better arguments.' To the right is an icon of three puzzle pieces. Below this is a byline: 'By: Tom Chatfield, Editor-in-Chief' and a paragraph: 'What is critical thinking - and why does it matter? In this module, we'll explore the ways in which critical thinking skills underpin confident, critically engaged learning, and how they can help you succeed in your studies as well as in the wider world.' At the bottom, there is a 'Show full overview' link and the text 'Critical Thinking Skills'.

## Preview our content

### Sage Skills

[What is critical thinking?](#)

### Sage Research Methods

[Ten commandments for critical thinking](#)

[What is critical thinking in relation to research?](#)

### Sage Video

[Critical thinking: analyzing problems and decisions](#)

### Sage Reference & Academic Books

["Why Teach Thinking Skills?" from \*Teaching Creative and Critical Thinking in Schools\*](#)

### Sage Business

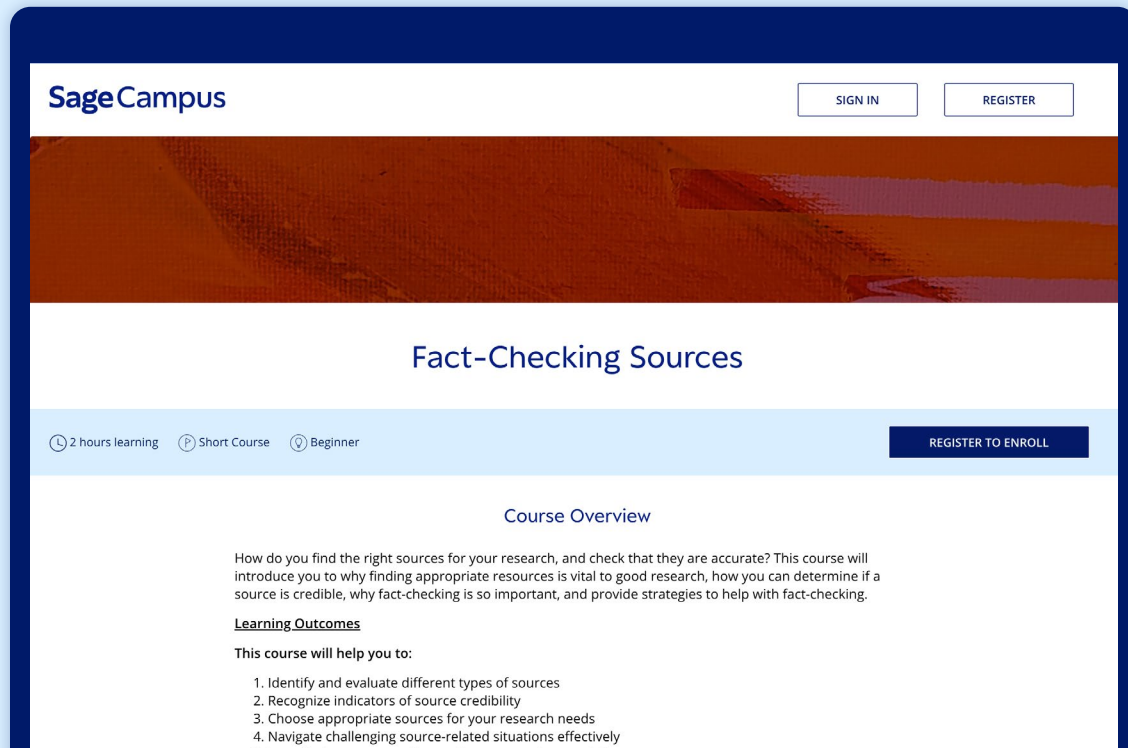
[Developing effective critical thinking](#)

### Sage Campus

[Critical and uncritical thinking](#)

# Evaluating sources

We're surrounded by information ranging from scientific and academic journals to popular media and our social media connections, but navigating it all takes skill to recognize credible sources. The following content provides a framework for determining whether information is authoritative and for recognizing bias.



The screenshot shows the Sage Campus website interface for a course titled "Fact-Checking Sources". At the top left, the Sage Campus logo is visible. To the right of the logo are "SIGN IN" and "REGISTER" buttons. Below the header is a large orange banner with a textured background. Underneath the banner, the course title "Fact-Checking Sources" is centered. Below the title, there are course details: "2 hours learning", "Short Course", and "Beginner" level. A "REGISTER TO ENROLL" button is positioned to the right of these details. The main content area is titled "Course Overview" and contains a paragraph of introductory text about the course's focus on finding and evaluating research sources. Below this text is a section titled "Learning Outcomes" which lists four specific goals for the course.

SageCampus SIGN IN REGISTER

## Fact-Checking Sources

2 hours learning Short Course Beginner REGISTER TO ENROLL

### Course Overview

How do you find the right sources for your research, and check that they are accurate? This course will introduce you to why finding appropriate resources is vital to good research, how you can determine if a source is credible, why fact-checking is so important, and provide strategies to help with fact-checking.

**Learning Outcomes**

This course will help you to:

1. Identify and evaluate different types of sources
2. Recognize indicators of source credibility
3. Choose appropriate sources for your research needs
4. Navigate challenging source-related situations effectively

## Preview our content

### Sage Campus

Fact-checking sources

### Sage Business

Be a critical public data consumer

Evaluating data in the news

How to critically evaluate AI and ML algorithms

### Sage Video

Media bias

### CQ Press Library Researcher

Media in Trump's second presidency

### Sage Reference & Academic Books

"Why worry about the sources of news?"  
from *News and News Sources:  
a Critical Introduction*

"Effectively supporting claims" from  
*Argumentation in Everyday Life*

"Types and tests of evidence" from  
*Argumentation: the Art of Civil Advocacy*

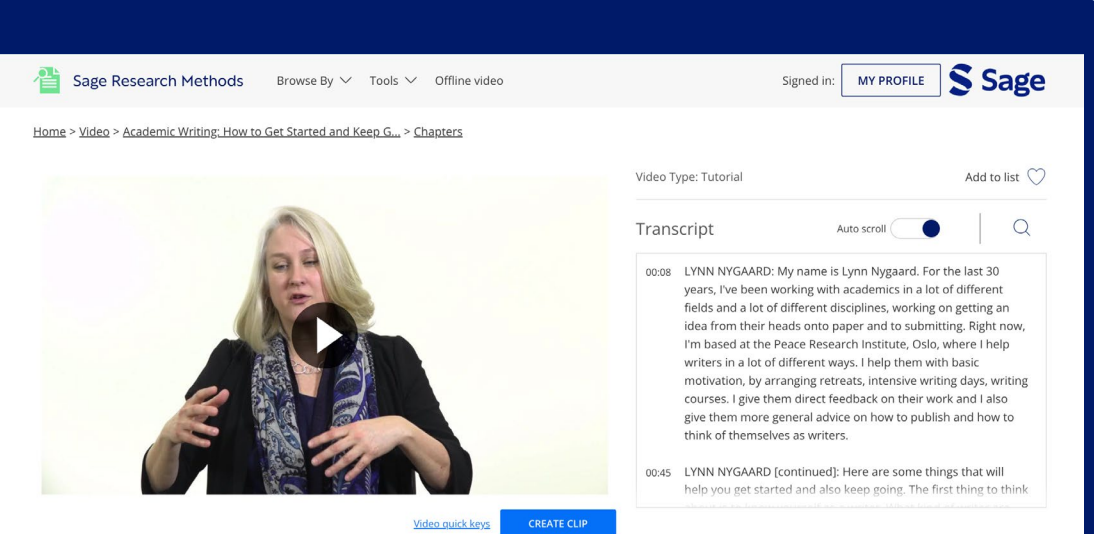
### Sage Research Methods

How to critically evaluate  
information sources

Becoming ethical researchers in  
the age of artificial intelligence

# Critical reading and writing

Critical reading and writing includes knowing how to recognize an argument, how to appraise academic writing, and how to structure a compelling argument with supporting evidence in students' own writing. You'll find a variety of resources here to help develop these skills, including practical guidance on reading academic texts, crafting persuasive communications, and critically evaluating published work.



Sage Research Methods Browse By Tools Offline video Signed in: MY PROFILE Sage

Home > Video > Academic Writing: How to Get Started and Keep Going > Chapters

Video Type: Tutorial Add to list

Transcript Auto scroll

00:08 LYNN NYGAARD: My name is Lynn Nygaard. For the last 30 years, I've been working with academics in a lot of different fields and a lot of different disciplines, working on getting an idea from their heads onto paper and to submitting. Right now, I'm based at the Peace Research Institute, Oslo, where I help writers in a lot of different ways. I help them with basic motivation, by arranging retreats, intensive writing days, writing courses. I give them direct feedback on their work and I also give them more general advice on how to publish and how to think of themselves as writers.

00:45 LYNN NYGAARD [continued]: Here are some things that will help you get started and also keep going. The first thing to think

Academic Writing: How to Get Started and Keep Going

Get link Cite Share Embed PDF Download v

## Preview our content

### Sage Campus

How do I read with purpose?

### Sage Skills

From good reading to good writing

### Sage Business

Formulating a communication strategy

Persuasive messages

### Sage Research Methods

Academic writing: how to get started and keep going

How to understand and communicate research limitations in your writing

How to understand, interpret, and critically evaluate published research

# Data literacy

Part of being able to critically evaluate a claim is knowing enough about statistics to recognize if numerical claims are legitimate. This same knowledge can help researchers from making their own misleading claims through faulty data analysis. We have a number of resources to give learners a solid footing and help overcome stats anxiety.

Business Skills About Browse Information

Signed in: MY PROFILE Sage

Home > Skills > Business Skills > Data Analytics > Assessing Data Quality

## Assessing Data Quality

Addressing Data Bias

- Overview
- Keep a Critical and Objective Perspective
- Data Interrogation
- Addressing Data Bias

Addressing Data Bias

- Data Bias Basics
- Survey Bias
- Checking for Data Integrity
- Screening for Data Biases and Paradoxes

More information

Add to list Get link Cite Share Embed Download PDF

## Preview our content

### Sage Research Methods

How to determine what data literacy skills you need

"Data dirt is everywhere" from *Data Literacy: a User's Guide*

Data management: dealing with messy data

### Sage Skills

Elements of a statistical claim

### Sage Campus

Know your numbers

### Sage Video

Data-driven decision making

### Sage Business

Maintaining data objectivity

Interrogating your data

Data screening

### Sage Reference & Academic Books

"The materiality of data and infrastructure" from *The Sage Handbook of Data and Society*

"Network analysis" from *Contemporary Sociological Theory*

# Recognizing bias and fallacies

The key to identifying misleading sources is to learn to identify bias or arguments that are not supported by the evidence. Sage has a number of resources – in various formats to appeal to varied learning preferences – to train learners to spot these pitfalls.

## Preview our content

### Sage Skills

What is faulty reasoning?

### Sage Research Methods

Correlation does not equal causation

How can I avoid bias in my research?

Beating the bias built into machines

### Sage Video

What is science and pseudoscience?

Media bias

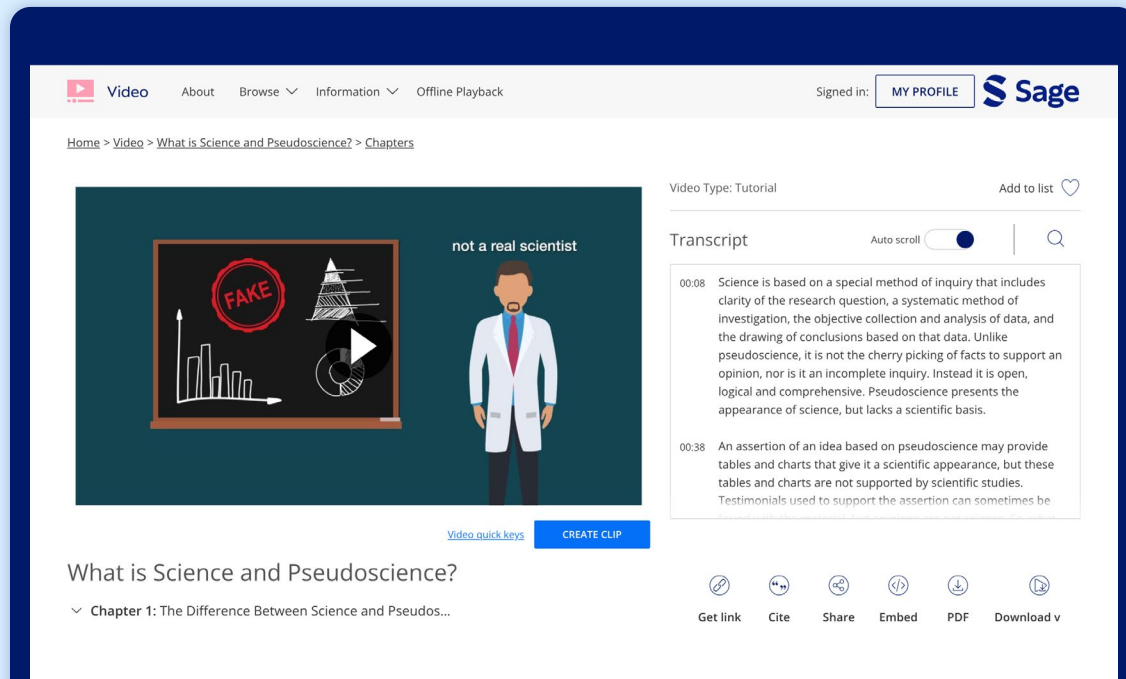
Elimination of bias: the science of implicit bias

### CQ Press Library Researcher

Fake online reviews

### Sage Business

Screening for data biases and paradoxes



The screenshot shows a video player interface. At the top, there are navigation links: 'Video', 'About', 'Browse', 'Information', and 'Offline Playback'. A 'Signed in: MY PROFILE' button and the Sage logo are on the right. Below the navigation is a breadcrumb trail: 'Home > Video > What is Science and Pseudoscience? > Chapters'. The video player area shows a thumbnail with a chalkboard containing a bar chart, a pie chart, and a play button, with the text 'not a real scientist' and a 'FAKE' stamp. Below the thumbnail are 'Video quick keys' and a 'CREATE CLIP' button. To the right of the video player is a 'Transcript' section with a search icon and an 'Auto scroll' toggle. The transcript contains two entries: '00:08 Science is based on a special method of inquiry that includes clarity of the research question, a systematic method of investigation, the objective collection and analysis of data, and the drawing of conclusions based on that data. Unlike pseudoscience, it is not the cherry picking of facts to support an opinion, nor is it an incomplete inquiry. Instead it is open, logical and comprehensive. Pseudoscience presents the appearance of science, but lacks a scientific basis.' and '00:38 An assertion of an idea based on pseudoscience may provide tables and charts that give it a scientific appearance, but these tables and charts are not supported by scientific studies. Testimonials used to support the assertion can sometimes be'. At the bottom of the player are icons for 'Get link', 'Cite', 'Share', 'Embed', 'PDF', and 'Download v'. Below the player, the video title 'What is Science and Pseudoscience?' is displayed, followed by a dropdown menu showing 'Chapter 1: The Difference Between Science and Pseudos...'.

# Discover our complete Learning Resources portfolio

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SageBusiness

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Sage Research Methods

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SageSkills

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SageVideo

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Sage Data

Powered by Data Planet

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Sage Campus

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Sage Reference &  
Academic Books

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CQ Press Library

To request a trial, please visit  
[sagelearningresources.com](https://www.sagelearningresources.com)