

## Check the relevance of information sources

Intensive examination with respect to relevance and seriousness of the sources = fundamental to quality of the own scientific work – the key questions are:

- should I trust this information?
- why do I trust this information/ source? Which reasons are there to trust? how can I verify it?
- how does the information fit in with my research topic?

### Before viewing the source...

\*valid for Book/journal or Websites only

#### 1. Author/ Publisher

- Is the author/ publisher familiar to you? (renowned scientists?, expert in the field of research?, referred to by colleagues?)
- What background (experience, activities, etc.) has the person?
- Is he/ she quoted often? (quoted often → high relevance for the field)
- Are there many cited by's on / [links to this information source](#) / the [webpage](#)?
- Are well-respected sources (Books/journals) / [webpage](#) referenced / [linked to](#)?
- [Is the Author/ the publishing institution mentioned?](#)
- [Are there contact details? \(e.g. in Impressum, "About us" or Mission Statement\)](#)

#### 2. Up-to-dateness/ currentness

- When was the information/ the text/ the research data published?
- Is the text or the information recent enough for your research problem? Were more recent figures / studies / data etc. integrated and therefore the source updated?
- Is it clear when and by whom the given data were inquired? If the check fails, the information could already be outdated and invalid.
- Book: Were more recent editions published? (more recent editions (Book) = indicates a standard work/ well-respected manual)
- [Is it clear how often or when the page was updated? Are all links working?](#)

#### 3. Environment (Publisher, Website/ Portal)

- [Website: Ist the whole Website well organized resp. easy to navigate? in which context exists the website? \(website's ending: .com=commercial, .edu=educational institution, .gov= government, .mil=military, .org =association/ NonProfit-Organization\)](#)
- Is the information source (article, Book (chapter)) published by a well-known publisher? quality standards (e.g. Peer-Reviewing)? are those met? see checklist [Clues to quality of journals](#)
- Does an abstract or review of the information source (book/ article) exist? Which information/ opinion/ rating does it offer? (Please note that the quality of reviews can differ so check it as well)

### After you got the source you are able check the following aspects...

Important elements for evaluation: foreword, blurb, epilogue/ summary – usually reading up the beginning is sufficient to get an impression of the following aspects:

#### 1. Purpose

- What is the purpose/ motive of this source? (commercial, entertainment, advertisement etc.) Does the source try to sell you something?
- Kann zwischen Inhalt und Werbeanteil klar unterschieden werden?

#### 2. Target group/ audience

- Which target group is addressed?
- Is the text appropriate for your needs? Or is it too basic/ popular/ technical/ sophisticated?
- [Zeitschriften/ Website: how is the portion of text and advertising spread?](#)
- [Website: How does the purpose affect the page layout / content presentation? Is the webpage dominated by advertising? \(usually much advertising = low quality\)](#)

### 3. Care / writing style

- Is the text constructed in a logical way, clear and concise?
- Does the author use a clear, plain language?
- Is the text created carefully or are there e.g. many grammatical or spelling errors?
- Does the author cite correctly?

### 4. Objectivity

- To which organisation does the author belong to or to which is he/ she connected to?
- Is the topic treated in an objective, neutral and impartial way? Are different views / positions / theories / schools of thought / methods etc. presented? Or does the author try to influence your point of view?
- Are facts presented as personal or personal opinions presented as facts? (If the views of the author might be controversial, the author should indicate the possibility of divergent interpretations)
- Is the reasoning valid?
- What is the intention of the author to publish this text?

### 5. Verifiability / transparency

- Does the information come from a thorough investigation and hence convincing?
- Are all used information, tables, figures and charts referenced?
- Website: [Do the provided links work?](#)
- Do all used sources appear in a bibliography or at least as a footnote?
- Are the methods of data collection and evaluation explained when reference is made to research?

### 6. Scientific standards

- Is the text structured according to a stringently scientific scheme? Is the author firm in scientific writing and the use of proper techniques and styles?
- Are the scientific quality criteria met?: objectivity (results independent of a person), reliability (measuring instrument reliable, same results after repeated execution) and validity (suitability of a measurement procedure/ survey question with respect to the research objective)
- Are key terms defined in order to avoid blur and to demonstrate the own positioning in relation to the school of thought?
- Plagiarism (=theft of intellectual property) was avoided?

### 7. Completeness

- How comprehensive is the published information with respect to the topic? Do gaps appear?
- Does the source provide new information or theories? If the author explains a new theory or method: Does he/she address the value and limitations?
- Is the information source changing your point of view on the topic?
- Is it a primary or a secondary source? → secondary sources e.g. book (chapter), journal article etc. are based on primary sources e.g. research report, research study

### Further information:

Taves, Adam et al.: The web research tutorial - York university – URL: <http://www.yorku.ca/webclass/module4a.html> (last update: 24.04.2006)

Checkliste Bewertung von Informationsquellen – Bibliothek der Hochschule Aschaffenburg – URL: <http://www.h-ab.de/fileadmin/dokumente/bibliothek/Anleitungen/Checkliste%20Bewertung%20von%20Infoquellen.pdf> (last update: Sep. 2014)

Critically Analyzing Information Sources – Cornell Univ. Library – URL: <http://guides.library.cornell.edu/criticallyanalyzing> (last Update: 21.09.2014)

Clues to quality of journals – HZI Library – URL: <http://www.bibliotheca-open.helmholtz-hzi.de/Portals/1/Clues%20to%20quality%20of%20journals.pdf> (last update: 28.01.2015)

Evaluating Information found on the Internet. : Items to consider. - John Hopkins Sheridan Libraries – URL: <http://guides.library.jhu.edu/content.php?pid=198142&sid=1657539> (last Update: 28.05.2013)

Leitfaden zur Wissenschaftlichkeit – Universität Bielefeld, Service Center Selbststudium – URL: <http://www.uni-bielefeld.de/erziehungswissenschaft/scs/pdf/leitfaeden/studierende/wissenschaftlichkeit.pdf> (last update: 06.03.2011)