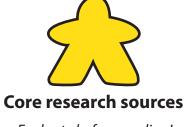


Core research sources

Research source: books Use your library's online portal to search for books. Don't stop at your own library, use the library's databases to find more and if necessary, request them on interlibrary loan.



Evaluate before reading!

Tips for books:

Do not select books to read based on title alone. Look at the back-cover blurb and chapter list to see how much of the book's content really is relevant to you. Consult the index to see how often your interest is mentioned.

Core research sources

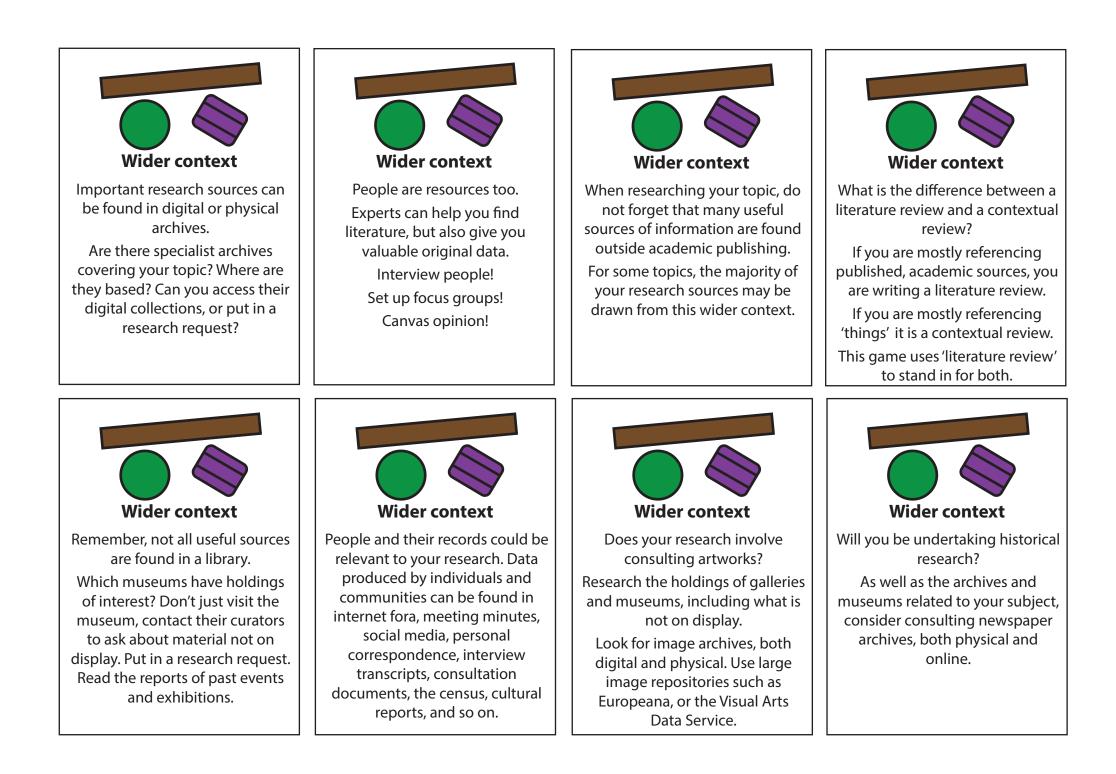
Evaluate after reading! Tips for books:

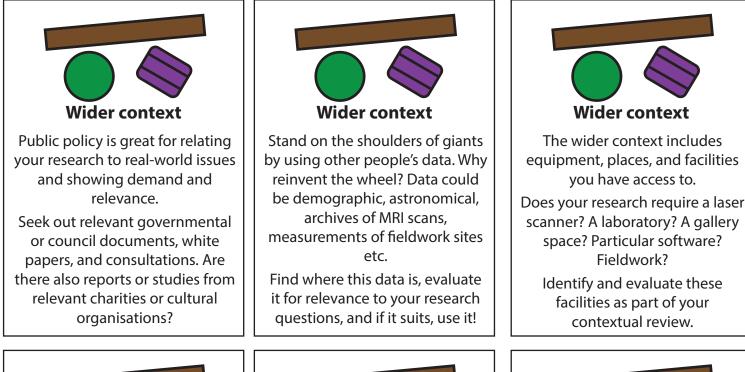
Books are typically authored or edited by one or two people. When using books in your literature review, consider if you are getting the whole picture. Are there other sources which present different perspectives?

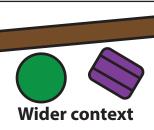


Research source: peer-reviewed journals

A relevant, peer-reviewed journal article is one of the most authoritative sources. Peer-review provides additional credibility and assurance of quality.





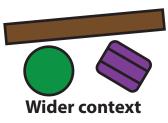


Don't think of your first piece of writing as the definitive version. Writing is a way of thinking. It

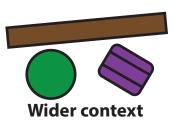
won't be perfect first time! Write as many drafts as you need as you increase your knowledge and understanding.



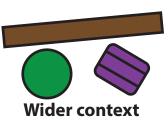
Be realistic and, if necessary, find a more feasible way to access the same information.



Does your research involve design and creation of an artefact (e.g. artwork or software)? What already exists? What are its main features and how is your idea different? You may have to undertake different sorts of review (e.g. technical review for software, crit for artworks) as part of your literature review.

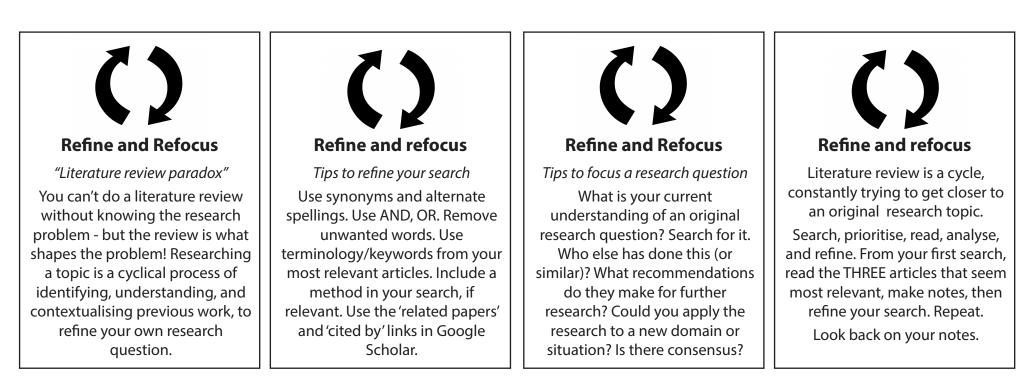


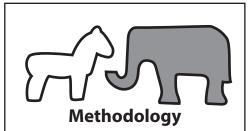
Using research context is an iterative process. Your understanding will change and be honed the more contextual research you do. Your overall understanding will change your ideas as you learn more about the research problem in its real-world context.



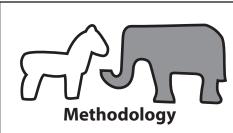
When researching the wider context, pay attention to existing frameworks, conventions, and data standards in your field. For example, perhaps the sort of information you might be working with is always presented in a certain format? This affects the design of your research.

Refine and refocus deck





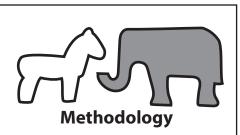
Research method: survey Surveys gain the same kind of data from relatively large groups of people in a consistent and standardised way. Surveys can be qualitative, quantitative, or both. They aim to identify patterns using statistics or qualitative analysis. Surveys can capture correlation but not causation.



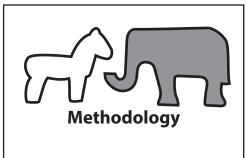
Research method: design & create

Creating something (e.g. sculpture, product, or software) is likely to be iterative, involving multiple design, create, evaluate cycles.

Practice-as-research aims to create missing knowledge in process, product, or both.



Research method: experiment An experiment tests a hypothesis and investigates cause and effect. Experiments involve before and after measurements in control and test groups. Experiments require statistical analysis to correctly interpret the results.



Correlation does not equal causation!



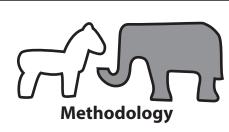
Research method: case study Case studies focus on a single instance of the thing being studied, e.g. one class of students or one supermarket. Case studies provide a very rich and detailed insight into that particular case. Case studies can be descriptive, explanatory, or exploratory.



Research method: action research Action research is based on incremental cycles (plan, do, reflect, repeat) whilst adhering to to rigorous research procedures. The researcher is intrinsically involved in the problem and its solution, their participation affects the results.



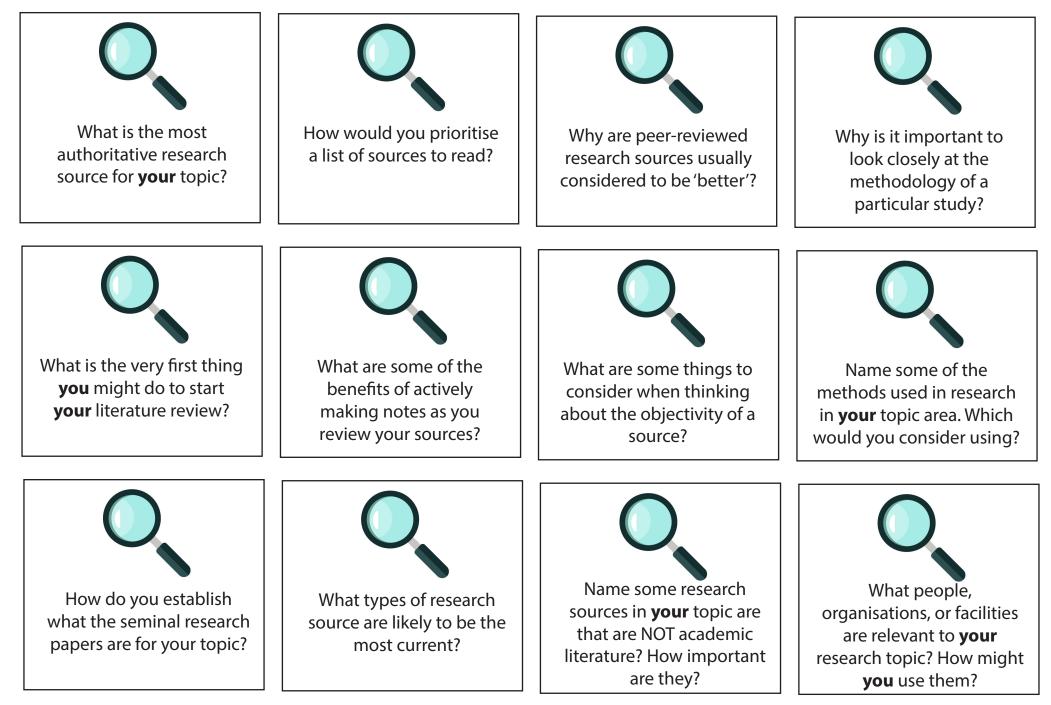
Research method: ethnography Ethnography is the study of cultures in context, typically achieved through detailed documentation of observations (e.g. field journal, audio recorder) and later interpretation. The researcher inhabits the group /culture studied and therefore is not a detached observer.



Research method: historical research

This method uses documentation of the past in an attempt to discover new knowledge (e.g. newspapers, correspondence, sound/video archives, diaries, ephemera). It requires the skills to find, evaluate, understand, and interpretat sources.

Evalute deck



4 Each time you place an Every time you place an Each time you place an Each time you place a animal, briefly describe a acrobat, suggest a acrobat, name a person plank, ball, or barrel, research method that keyword for your (or role) you might name a non-literature might be appropriate to research idea. consult when doing your source you might your research. literature review. consult in your research. ask for suggestions. individual requirements. your research idea. review. If you run out, get support for their Challenge real-world impact of consult in your literature deck - to hand as you describe the tutor where students can lliw uoy esedeteb replace When finished ask your with the fingers of one name a journal or existing blue .bnsh ano yino paisu piece, do a drum roll With each cymbal crash challenge Assemble your research As you place your last deck. Add your own 2 9 9 challenges if desired. 6 6 6 5 Interdisciplinary Whenever you place an Each time you hear Each time a piece falls off research! Ensure you applause on the animal on top of an your structure, name a have components in acrobat, briefly describe soundtrack, stand up, potential risk to your how research methods every 'zone' marked on bow, and name a likely research project. the circus ring and that can affect results. beneficiary of your all are linked. research.

4

5

6

Each time you place an acrobat, describe a way of evaluating or prioritising what to read.

4

Each time you hear applause on the soundtrack, give a reason why citation of sources is important.

5

Each time you place an animal, describe a way of evaluating a research method.

5

With each cymbal crash, give a reason why primary sources are better than secondary sources.

5

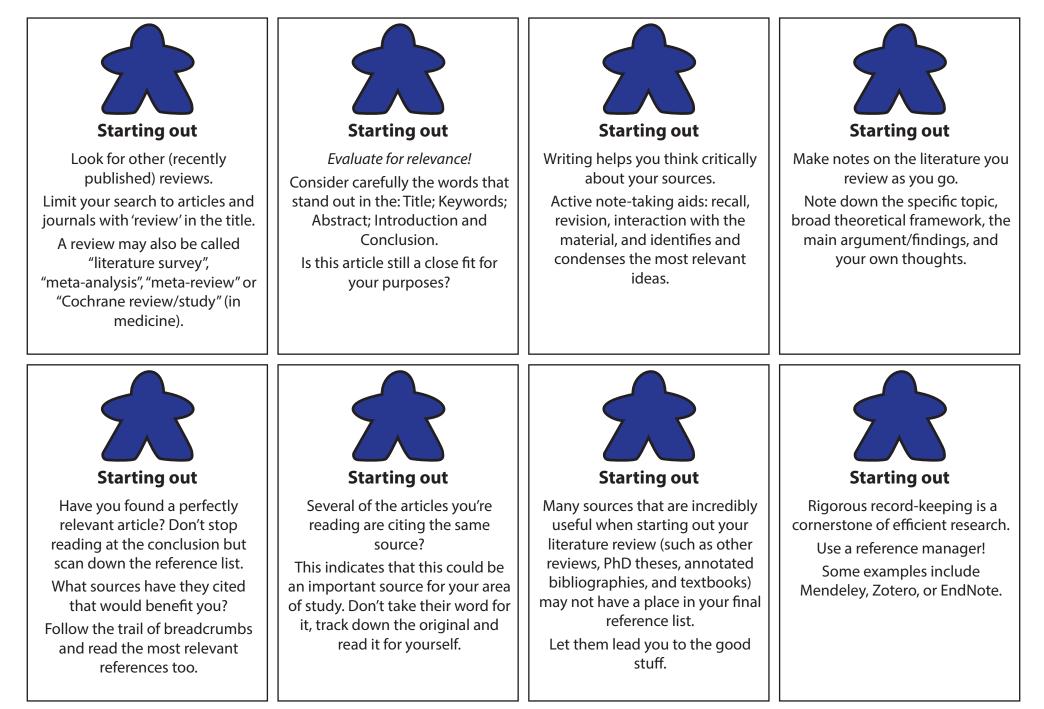
Every time you place a component, name a way of refining your literature search.

7

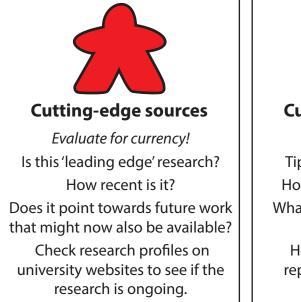
Every time you place an acrobat, name a way of refocussing your research question.

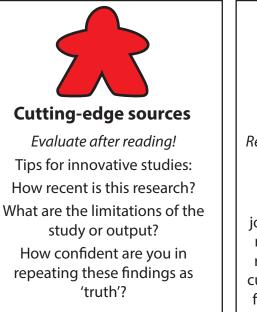
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Research sources deck





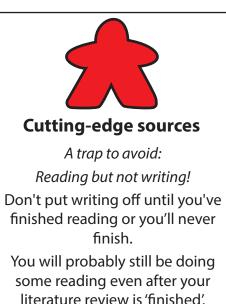






Cutting-edge sources

Research source: Innovative studies Innovative studies can come from a range of sources, e.g. conferences, reports, and journals. Very recently published research that claims innovative results is useful to establish the current research priorities in your field. This can help you to refine your own research question.





Cutting-edge sources

Evaluate before reading! Tips for innovative studies: Who are the authors and what are their track records? How definitive is the abstract about the findings? Where is it published (if at all)? If you found the study via a press release, does the research described really match the headline?



Cutting-edge sources

Evaluate after reading! Tips for innovative studies: What is the weight of evidence behind the conclusions drawn? Have the authors claimed firm results or are their conclusions preliminary or indicative? Might the authors benefit commercially in some way?



Cutting-edge sources

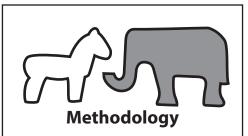
Using your sources! Tips for innovative studies: Can you challenge or corroborate new results? Can you apply the same knowledge in a different situation (e.g. different technology, users, discipline, or methodology) and see if the findings still apply?



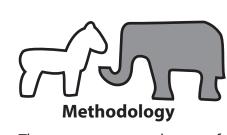
Cutting-edge sources

Using your sources! Tips for innovative studies: Research that claims new knowledge helps you to refine your own research question.

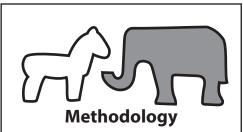
Have the authors explicitly identified a research gap? How might your research complement existing ongoing research?



What is the difference between methods and methodology? Methods are simply tools used in your research, for example, an interview or a measurement. Methodology is the rationale for your approach to your research and encompasses your conceptual framework.



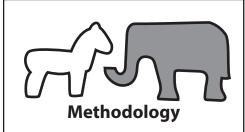
There are two general types of data, quantitative and qualitative. Quantitative data is information that can be measured in terms of numbers, e.g. your height or a rating between 1 and 10. Qualitative data is information about qualities that can be described but not measured, such as the softness of a cat.



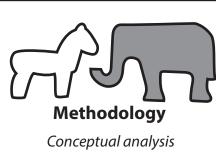
A theoretical framework is a way of explaining the structure of your thinking. It draws on underlying theory as well as your own approach to the topic. Theories provide systematic ways of understanding the world and explaining ideas. Your theoretical framework will affect your choice of research methods.



Reviewing methodology is part of a literature review. Identify and analyse what methodologies previous researchers have used. Were they successful? What problems and improvements have been suggested in the literature?



Remember, your research method must serve your research question, not the other way around!



Conceptual analysis is used to clarify the meaning of terms and to identify the ideas or entities that ought to be captured by them. Analysis might seek to identify the essential properties of things falling under a concept, to identify family resemblances, or describe typical examples.



Sampling

Methods involving sampling (e.g. surveys, experiments) make wider generalisations from data gathered from the sample. Sample population must be appropriate to the research question, representative, and large enough to generalise.