

# Ciências ULisboa

Faculdade  
de Ciências  
da Universidade  
de Lisboa

**Eng Energy & Environment**



# **Research methods & Dissertation Project**



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**Professor: Carla Silva ([camsilva@ciencias.ulisboa.pt](mailto:camsilva@ciencias.ulisboa.pt))**

## Assignments

Important dates

29 October – Research objective and research questions

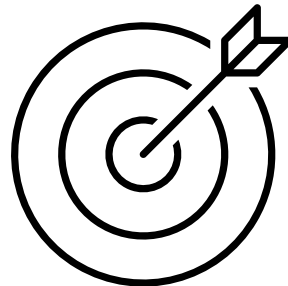
10 December – Literature review w/ references

Final week (oral examination with the supervisor/s and colleagues)

<b>Module 1</b>	<b>“My experience”</b> <b>former students of Eng. Energy and Environment</b>  <b>EDP company</b> <b>Private bank</b> <b>Audit and consulting</b> <b>PhD “Sustainable Energy Systems”</b>
Module 2	“Dissertation offers” Research Professors & Companies
Module 3	What is the research? What is the generic research methodology? Research objectives and research questions Methodology and method
Module 4	Literature review
Module 5	Reference manager
Module 6	Plagiarism & copyright
Module 7	Examples, assignments and doubts
	Oral evaluation

## At the end you should:

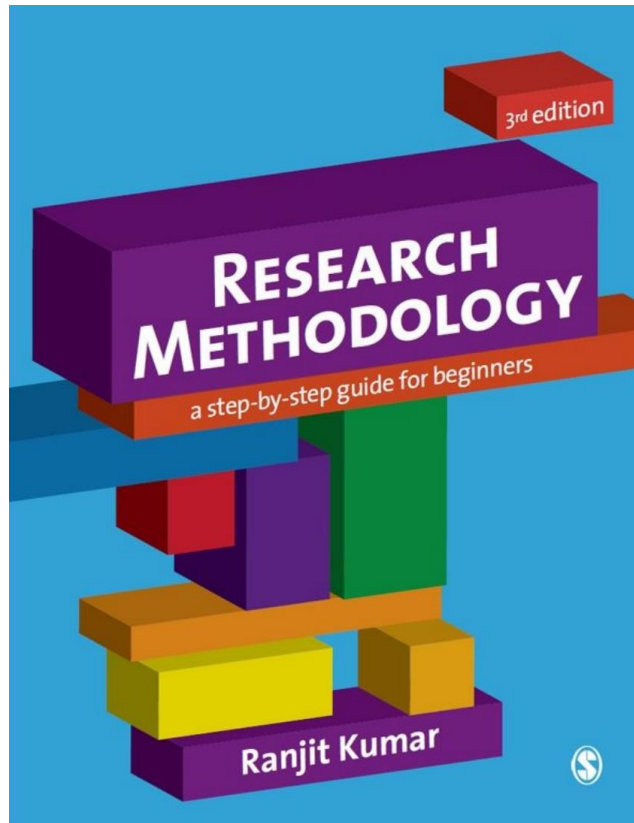
- ✓ **Formulate your dissertation research objective and research questions;**
- ✓ **Formulate your dissertation Literature review with appropriate references;**
- ✓ **Use a reference manager cross checking each uploaded reference for correctness;**



1. **S Cottrell, Dissertations and Project Reports: A Step by Step Guide, Red Globe Press, 1st Edition 2014, ISBN 9781137364265**
2. B Greetham, How to Write Your Undergraduate Dissertation, Red Globe Press, 3rd Edition 2019, ISBN 9781352005226
3. **M Breach, Dissertation Writing for Engineers and Scientists, Pearson Education, 1st Edition 2008, ISBN 9781405872782**
4. R Boxman, Communication science: A practical guide for engineers and physical scientists, World Scientific Publishing Company, 1st Edition 2016, ISBN 9789813144231



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## Engineering Research Methodology A Computer Science and Engineering and Information and Communication Technologies Perspective

Book · December 2013

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6

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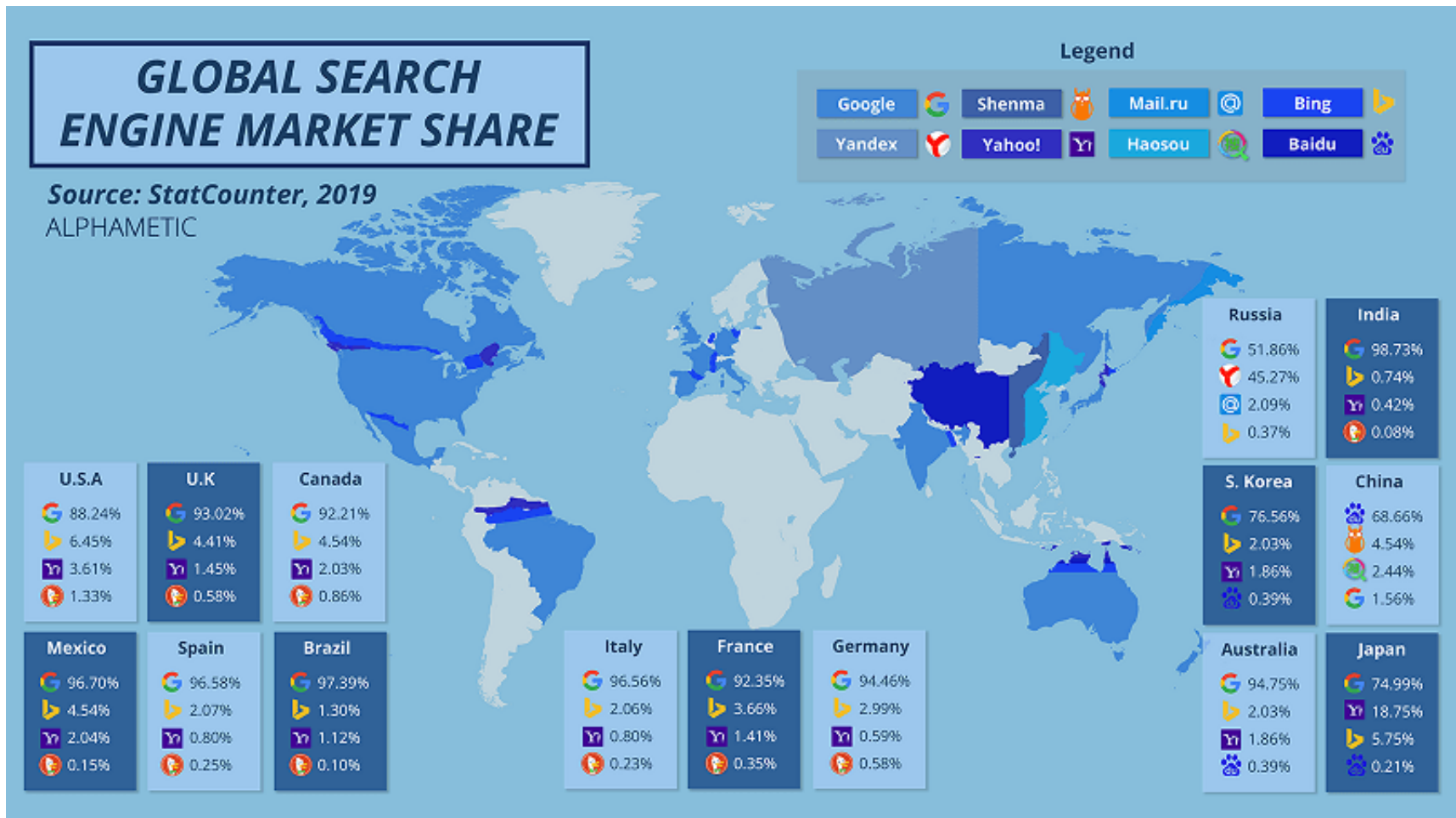
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# Google Académico



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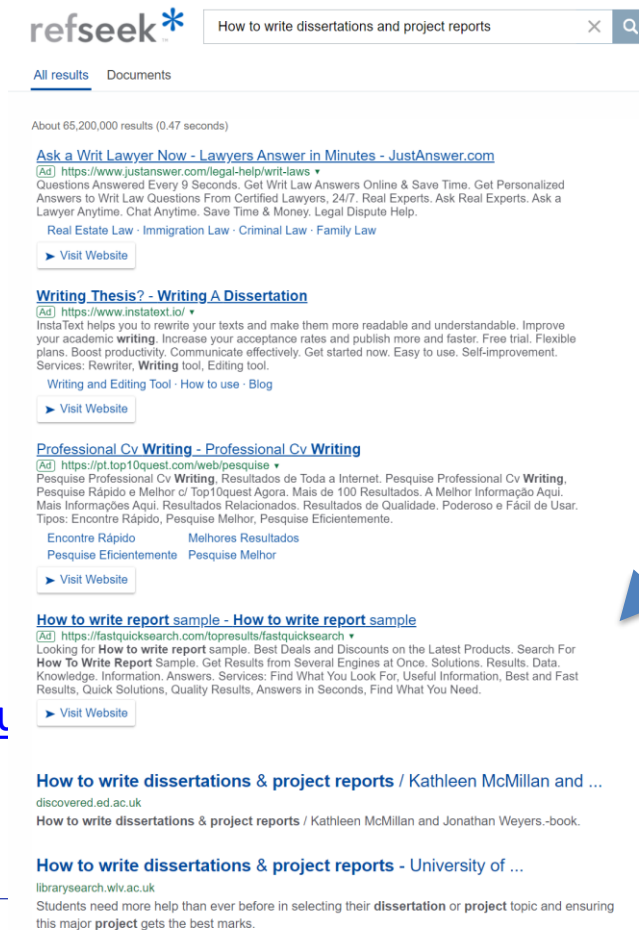
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Browse the **Reference Site Directory**

<https://www.refseek.com/>

e.g. find the open book “How to write dissertations and project reports”

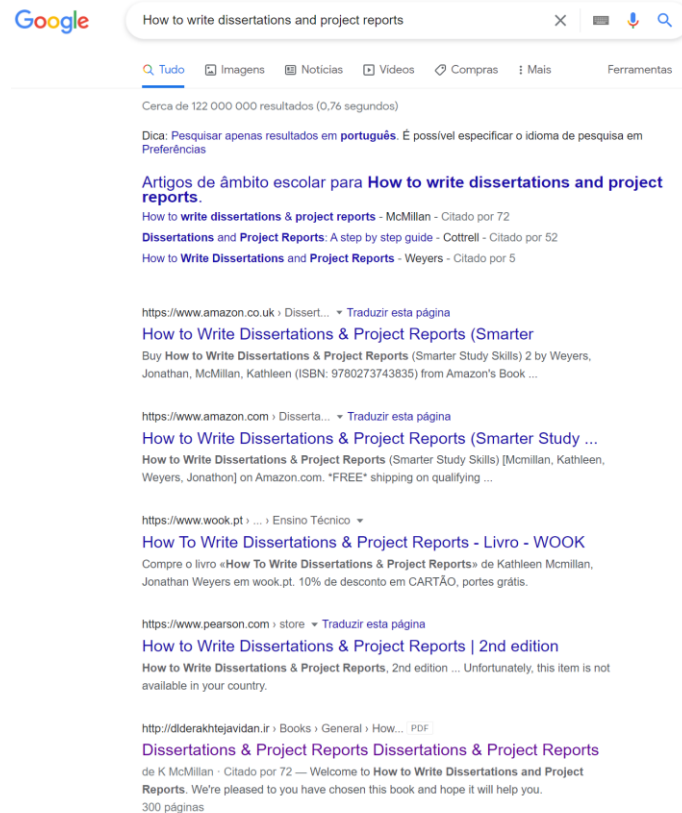
<https://www.refseek.com/>



The screenshot shows the Refseek search engine interface. The search bar contains the text "How to write dissertations and project reports". Below the search bar, there are several search results. The first result is "Ask a Writ Lawyer Now - Lawyers Answer in Minutes - JustAnswer.com" with a "Visit Website" button. The second result is "Writing Thesis? - Writing A Dissertation" with a "Visit Website" button. The third result is "Professional Cv Writing - Professional Cv Writing" with a "Visit Website" button. The fourth result is "How to write report sample - How to write report sample" with a "Visit Website" button. The fifth result is "How to write dissertations & project reports / Kathleen McMillan and ..." with a "Visit Website" button. A blue arrow points to the "How to write report sample" result.

<https://www.academicinfo.net/su>

e.g. find the open book “How to write dissertations and project reports”



Google

How to write dissertations and project reports

Cerca de 122 000 000 resultados (0,76 segundos)

Dica: Pesquisar apenas resultados em português. É possível especificar o idioma de pesquisa em Preferências

Artigos de âmbito escolar para **How to write dissertations and project reports**

How to **write dissertations & project reports** - McMillan - Citado por 72

**Dissertations and Project Reports: A step by step guide** - Cottrell - Citado por 52

How to **Write Dissertations and Project Reports** - Weyers - Citado por 5

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**Dissertations & Project Reports Dissertations & Project Reports**

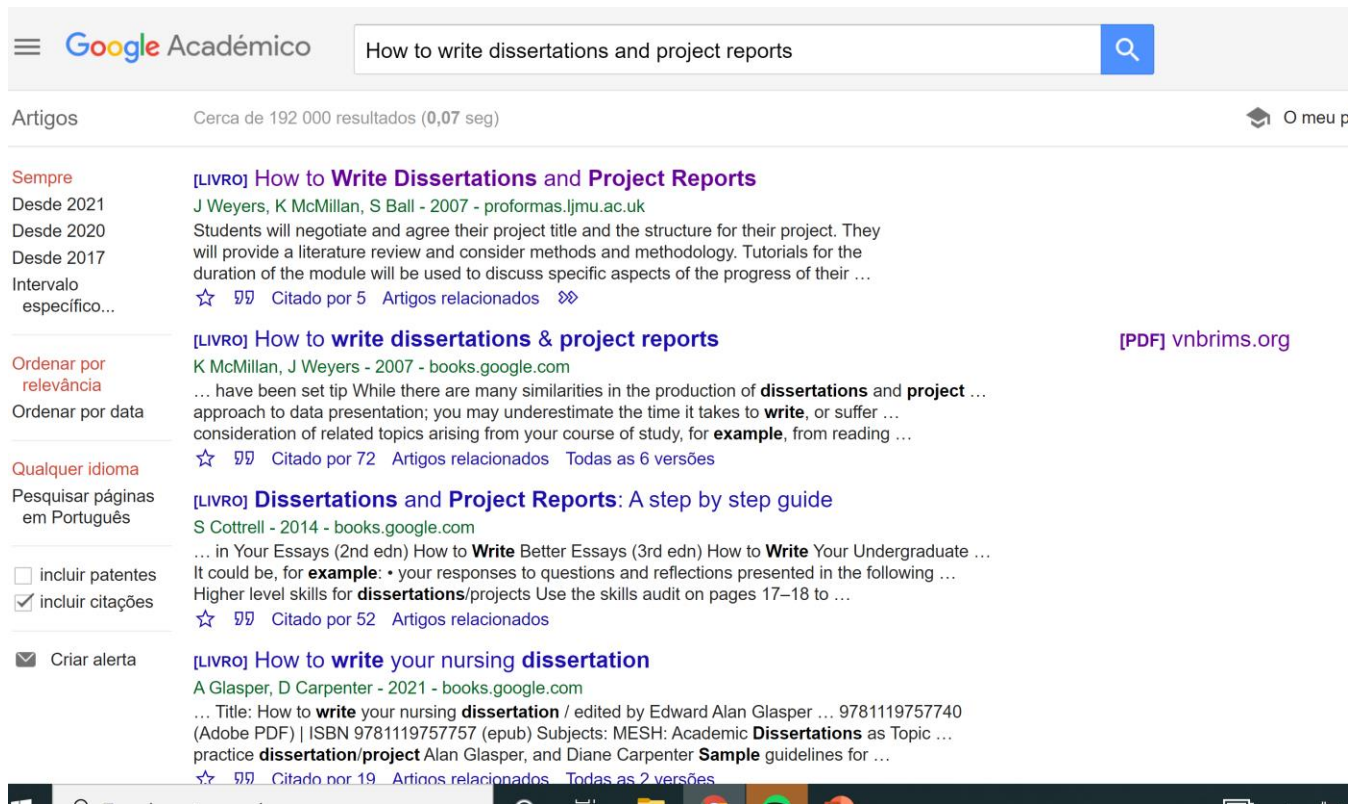
de K McMillan - Citado por 72 — Welcome to **How to Write Dissertations and Project Reports**. We're pleased to you have chosen this book and hope it will help you.

300 páginas





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Artigos Cerca de 192 000 resultados (0,07 seg) O meu p

**Sempre**

Desde 2021

Desde 2020

Desde 2017

Intervalo específico...

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**Ordenar por relevância**

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Criar alerta

**[LIVRO] How to Write Dissertations and Project Reports**  
 J Weyers, K McMillan, S Ball - 2007 - proformas.ljmu.ac.uk  
 Students will negotiate and agree their project title and the structure for their project. They will provide a literature review and consider methods and methodology. Tutorials for the duration of the module will be used to discuss specific aspects of the progress of their ...  
 ☆ Citado por 5 Artigos relacionados

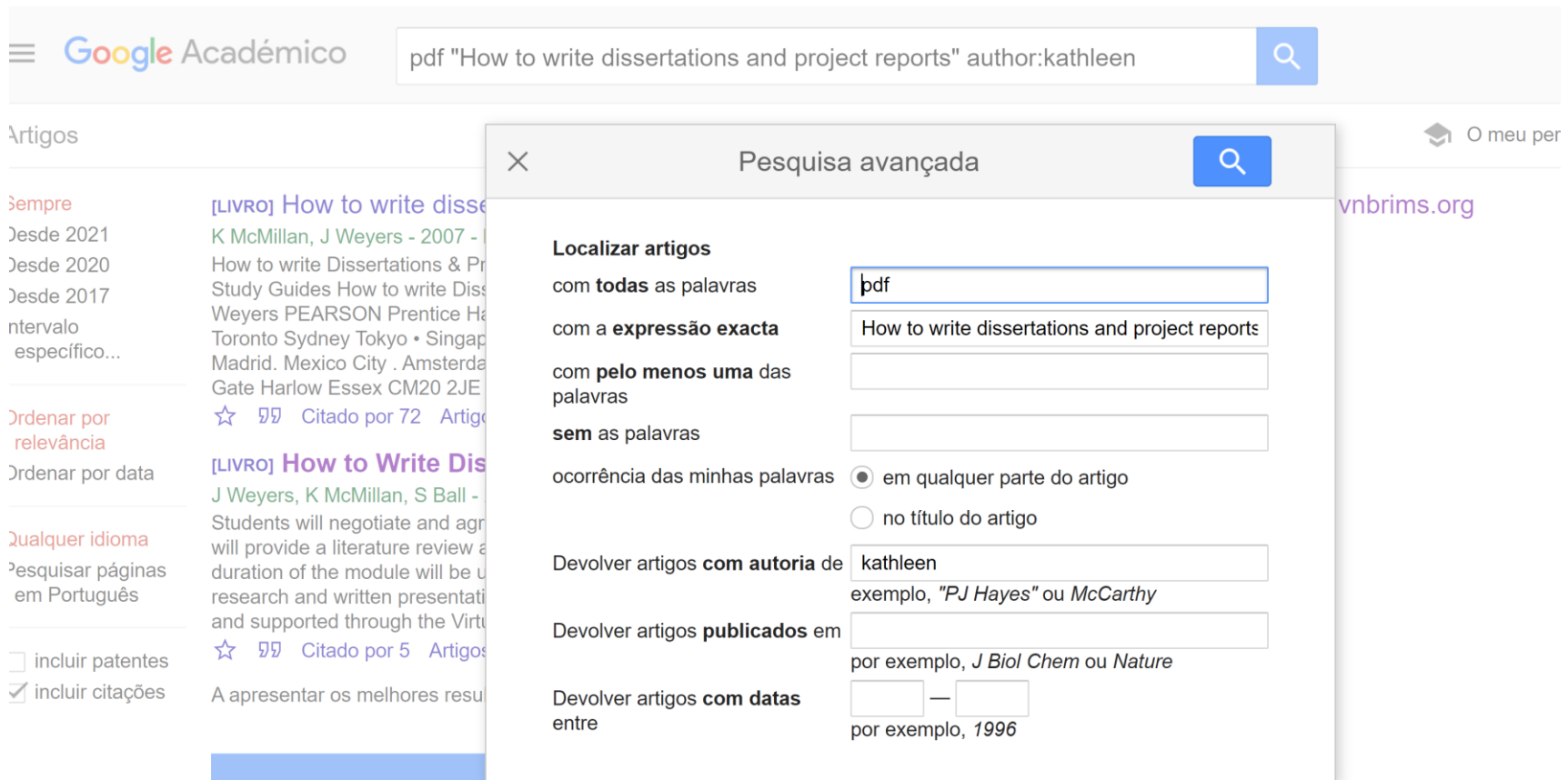
**[LIVRO] How to write dissertations & project reports**  
 K McMillan, J Weyers - 2007 - books.google.com  
 ... have been set tip While there are many similarities in the production of **dissertations** and **project** ... approach to data presentation; you may underestimate the time it takes to **write**, or suffer ... consideration of related topics arising from your course of study, for **example**, from reading ...  
 ☆ Citado por 72 Artigos relacionados Todas as 6 versões

**[LIVRO] Dissertations and Project Reports: A step by step guide**  
 S Cottrell - 2014 - books.google.com  
 ... in Your Essays (2nd edn) How to **Write** Better Essays (3rd edn) How to **Write** Your Undergraduate ... It could be, for **example**: • your responses to questions and reflections presented in the following ... Higher level skills for **dissertations**/projects Use the skills audit on pages 17–18 to ...  
 ☆ Citado por 52 Artigos relacionados

**[LIVRO] How to write your nursing dissertation**  
 A Glasper, D Carpenter - 2021 - books.google.com  
 ... Title: How to **write** your nursing **dissertation** / edited by Edward Alan Glasper ... 9781119757740 (Adobe PDF) | ISBN 9781119757757 (epub) Subjects: MESH: Academic **Dissertations** as Topic ... practice **dissertation/project** Alan Glasper, and Diane Carpenter **Sample** guidelines for ...  
 ☆ Citado por 19 Artigos relacionados Todas as 2 versões

[PDF] vnbrims.org 

e.g. find the open book “How to write dissertations and project reports”



The screenshot shows the Google Académico search interface. The search bar contains the query: "pdf 'How to write dissertations and project reports' author:kathleen".

An advanced search modal titled "Pesquisa avançada" is open, displaying the following search criteria:

- Localizar artigos**
  - com **todas** as palavras: pdf
  - com a **expressão exacta**: How to write dissertations and project reports
  - com **pelo menos uma** das palavras: (empty)
  - sem** as palavras: (empty)
- ocorrência das minhas palavras:
  - em qualquer parte do artigo
  - no título do artigo
- Devolver artigos **com autoria** de: kathleen  
exemplo, "PJ Hayes" ou McCarthy
- Devolver artigos **publicados** em: (empty)  
por exemplo, J Biol Chem ou Nature
- Devolver artigos **com datas** entre: (empty) — (empty)  
por exemplo, 1996

The search results on the left show a book entry: "[LIVRO] How to write dissertations and project reports" by Kathleen Weyers, published by Pearson Prentice Hall in 2007. It is noted as being cited by 72 articles.

## Refined search.....

Boolean Operators	Example
<b>AND</b> Limit results	Vegetarianism AND obesity (Search for content that contains both vegetarianism and obesity.)
<b>OR</b> One term OR another	Scholarly OR academic (Search for content that contains scholarly OR academic.)
<b>-</b> Exclude a term from the search	Bears -Chicago (Limits results to only those with bears and not the term Chicago.)
<b>-site:</b> Exclude a website from the search	Bears -site:wikipedia.org (Limits results to results other than Wikipedia.)
<b>~</b> Synonyms of term	~academic (Search for the term academic and its synonyms.)
<b>“ “</b> Exact phrase	“sleep deprivation” (Search for the phrase sleep deprivation.)

The only true wisdom  
is in knowing you  
know nothing.



Socrates

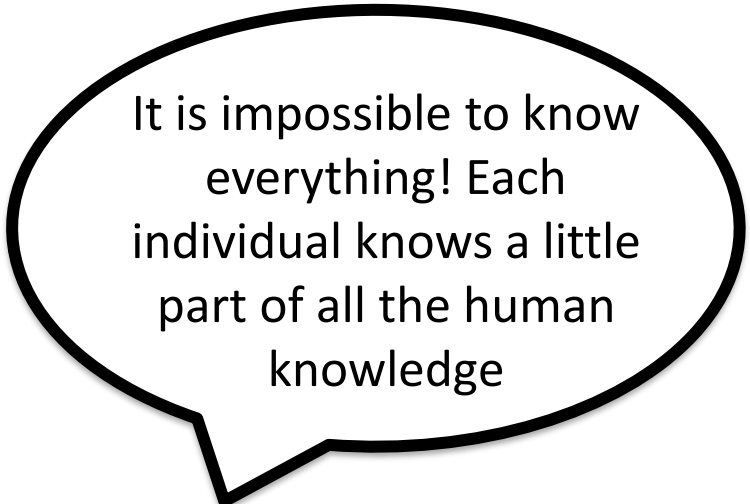
It is impossible to know  
everything! Each  
individual knows a little  
part of all the human  
knowledge





“The man who asks a question is a fool for a minute, the man who does not ask is a fool for life.”

— Confucius



It is impossible to know everything! Each individual knows a little part of all the human knowledge



# Research mindset



Everyone makes mistakes, so, you should always question existing information – **critical thinking**

## Research mindset

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Yeager, D.S., Hanselman, P., Walton, G.M. et al. A national experiment reveals where a **growth mindset** improves achievement. Nature 573, 364–369 (2019). <https://doi.org/10.1038/s41586-019-1466-y>

....everyone can learn if they  
**work hard**, and those who see  
things that way will do better  
at school than those with fixed  
mindsets....

# Research mindset

Prof. Carol Dweck of Stanford University's psychology department divides people into two mindsets



## GROWTH MINDSET



Analyze mistake  
Accept challenges  
Ability to learn new things  
Inspired by others success

## FIXED MINDSET



Unchangeable aptitude  
Avoid challenges  
Avoid failure  
Give up easily



# Research mindset

Prof. Carol Dweck of Stanford University's psychology department divides people into two mindsets



## GROWTH MINDSET



Analyze mistake  
Accept challenges  
Ability to learn new things  
Inspired by others success

## FIXED MINDSET



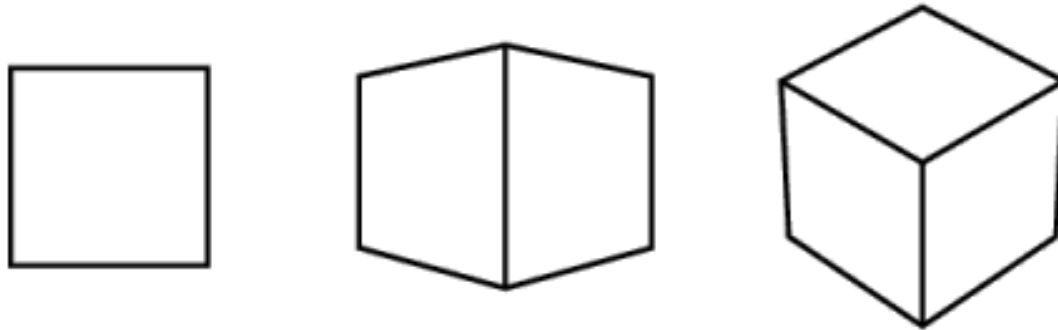
Unchangeable aptitude  
Avoid challenges  
Avoid failure  
Give up easily

Prof. Carol Dweck of Stanford University's psychology department divides people into two mindsets (TED talk)

## Developing a growth mindset: 5 must-see TED talks

<https://cezannehr.com/hr-blog/2019/07/developing-a-growth-mindset-five-must-see-ted-talks/>



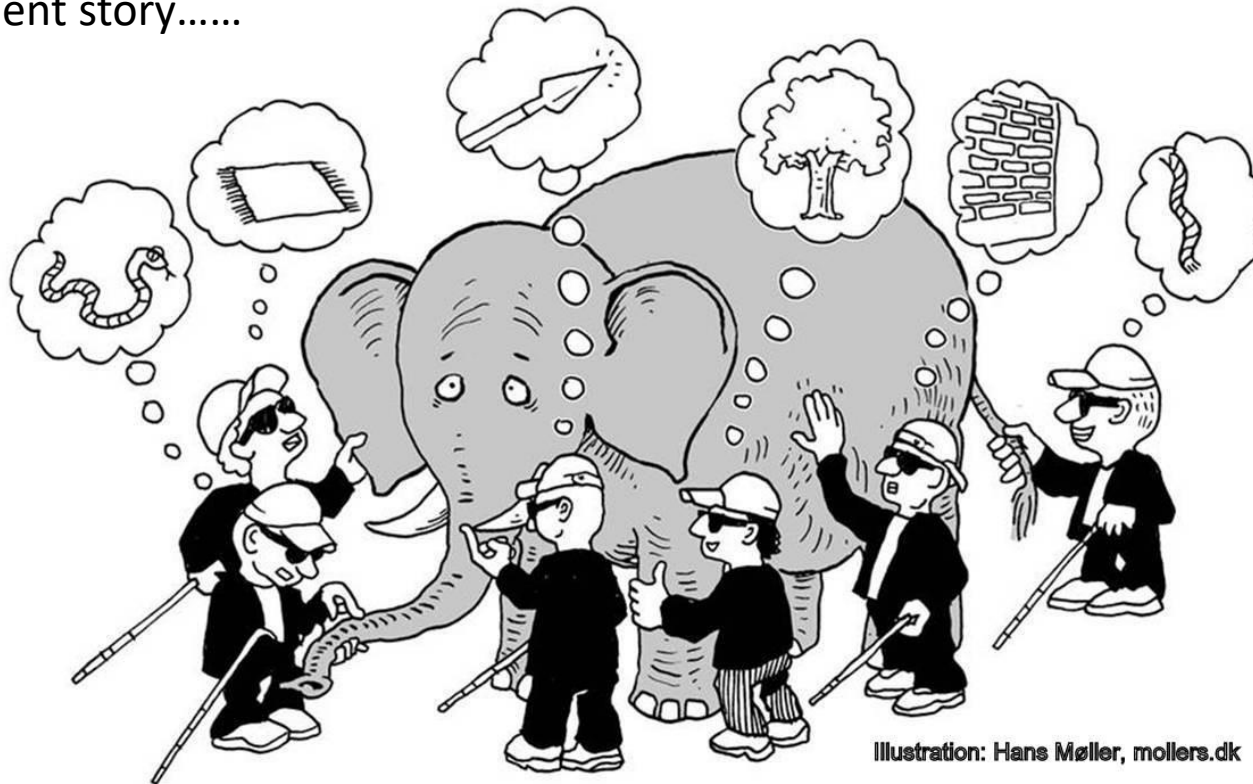


“Apesar da limitação de não conseguirmos ver uma parte da «realidade», se tivermos outro observador, de um ângulo oposto ao nosso, temos a «verdade», o cubo com seis lados (desde que os dois observadores comuniquem entre si). Também é possível ver a totalidade do mesmo poliedro se viajarmos para o outro lado.”

Jalan Jalan | Afonso Cruz

**Holistic perspective**

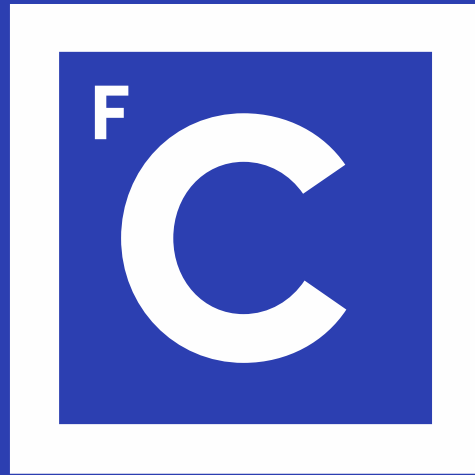
Indian ancient story.....



Aggregate different viewpoints to see the **BIG PICTURE**

**Holistic perspective**

**Thanks**



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