

#### How and where to find information

- Books
  - Browsing (often)
  - Mentioned by colleagues or supervisor (sometimes)
  - Cited in other books or journal articles (rarely)
- Journal articles
  - Same as above, but in order 3 (very often), 2 (sometimes), 1 (very rarely)
- Preprints
  - Same as above, but in order 1 (almost always), 2 (occasionally), 3 (very rarely)
- All three types of sources can be found by searching on the internet

- Search engines
  - Google ...
  - How many other search engines can you name without searching on Google?
  - Many search engines note the country of origin
  - Let us test these ...
- Wikipedia
  - Open authorship compromises on reliability and usefulness
  - More examples in social science than in science, but ...

- Google scholar
  - Not always easy to find the right article
  - Search rules obscure
  - Citations not always reliable
  - Registration (verified email) also not reliable
  - Exhaustive

- inspirehep (for HEP/GR/ASTRO)
  - Search syntax has to be followed
  - Selection by librarians
  - Quite exhaustive
- Web of Science
  - Not free
  - Selection by publisher staff
  - Only published articles in certain journals
  - Limited
  - Also ambiguous?



- ♦ Use keywords
- Author names or uncommon words for precise searches
- More words for wider searches
- ♦ Narrow down by adding words
- Widen out by looking at citations
- Don't ignore serendipitous discoveries

- Arxiv, biorxiv, medrxiv ... (for preprints)
  - Dependent on people uploading
  - Extremely popular, especially in some fields
  - Most convenient for browsing
- Researchgate, academia ... (registration required)
- Scihub (for journal papers)
- Libgen (for books)
- Court cases over the last two