READING SKILL for SCIENTIFIC PAPER (my writing)

Why?

- Reading SP is one the most important to begin research idea to make sure at first yourself that your idea will be become "a kind of research"
- Menjadi standart "not good ... good" research at first yourself before discussion with supervisor atau group discussion
- Sehingga faktor waktu penting diperhatikan, baca SP 3-5 years latter (up to date)

- Used to be called Secondary Background Research
- Secondary BR involves the collection of information from studies that other researchers have made of a subject
- The easiest and quickest way to access secondary sources are libraries or the internet

- Primary research involves the study of a subject through firsthand observation and investigation
- Primary BR sources:
 - Relevant people, Researcher observation, Researcher experience, Historical records/texts, Company/organisation records, Personal documents (diaries, etc), Statistical data, Works of art, Film/video, Laboratory experiments

Scientific Paper

- SP adalah tulisan ilmiah yang mengandung ilmu pengetahuan
- SP biasa terbagi berdasarkan bidang ilmu pengetahuan sehingga institusi pengelolanya juga berbeda-beda
- SP dapat berupa jurnal ilmiah, prosiding konferensi, laporan penelitian (Skripsi, Thesis, Disertasi,Laporan PKM,artikel majalah ilmiah, etc)

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- Untuk informatika, ex:
 - Web (termasuk web science) → ACM WWW, IEEE Web Intelligent
 - Information Retrieval \rightarrow ACM Sigir, IEEE IR
 - Database \rightarrow ACM Sigmod, ACM KDD, IEEE Data Engineering
 - Jurnal Sistem Informasi \rightarrow MITI UI
 - Garuda
- Sebagian portal SP ada di link riset di blos's course

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- The others:
 - Research books
 - Research reports
 - Journal articles
 - Articles reproduced online
 - Scientific debates
 - Critiques/ analysis of literary works/art

Choosing SP

- Lihat tahun SP
- Memperhatikan kualitas SP dari kualitas institusi pengelolanya
 - International \rightarrow ACM, IEEE, Springer
 - National → lihat akreditasi dari jurnal (A,B...), kualitas penyelenggara konferensi (ITB,ITS,UI...) atau kualitas reviewernya
- Lihat authornya (termasuk riwayat penelitiannya)

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Reading SP

- Read abstract, introduction, background \rightarrow obtain idea, novelty, research questions
- Direct to methodology \rightarrow obtain approach of research
- Skim result \rightarrow obtain goodness of result
- Conclusions \rightarrow obtain any open idea or next work
- If, you really like the paper extend reading the bibliography to more understand

Reading Strategies (source: "Approaches to academic reading and Writing",several reading tutorials and my editing)

Main points

- Strategically and selectively
- Purposefully
- Quickly
- How we read depends on what we already know and what we want to learn.

Purposefully

- The most important question you can ask yourself in relation to academic reading is – why am I reading this?
- The way you read a particular item will depend on your purpose for reading it
 - Am I looking for background information, quotations or support for my own arguments?'
 - If the topic or material is new you may need to spend some time developing a basic understanding of the new subject area before you read in depth

Step 1. Setting

- Pre-Read
 - Quickly getting a sense of the features of the text
 - Skim first and last paragraph to see where it's going
 - Check headings
- Fast-Read
 - Read entire piece quickly
 - Look up definitions of key terms you don't know
 - Flag the structure
 - Don't get bogged down

Step 2. Understanding

- Facet Two Understanding
 - Re-read entire article VERY CAREFULLY
 - Correct or add to previous flagging
 - Take lots of notes
 - To rephrase
 - To understand author's point of view
 - To diagram major moves
 - To work out/create/write a summary

Step 3. Evaluating

- Facet Three Evaluating
- Fix any mistaken flagging or notes
- Write down anything new that you discover
 - Is every conclusion well-defended
 - Are there alternate conclusions
 - Are there counter-examples?
 - Is there a conflict between what I believe and what the author says?
 - Are there points the author did not consider?

Strategies

- Scanning: To find specific information to answer a question/solve a problem. Use your knowledge of how information is organised to quickly find relevant content (e.g., abstract, introduction, conclusion, summary, tables, etc.)
- Skimming: To establish usefulness or obtain an overview (gist). Browse, survey the content, dip into different parts of the book/chapter.

- Reading topic sentences: Do this before indepth reading. Also useful when reading dense texts or new content. Read the topic sentence of each paragraph. This will provide an overview of the key ideas.
- Reading for detail: Re-read the dense/main parts of the text after you have identified the main argument so as to extract any supporting evidence, or to evaluate the content. Read slowly, paying attention to detail

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Active Reading

- Active reading techniques relate to ways in which you engage with the text. To improve your concentration
 - underlining/highlighting key ideas;
 - varying your pace as you read;
 - summarising as you read (using your own words when making notes);
 - annotating the text; and
 - stopping at strategic points to review
 - and consolidate what you've read (before reading Freinther)^{2012 DWW Sebelas Maret University}

Read difficult material

- Break it up into chunks if U have a lot to read
- Read first for what you do understand and don't get caught up in the difficult parts.
- Skim the material by reading the introduction and conclusion to try to get an overview.
- Even if you don't understand every word, try to get the overall sense of what the author is trying to say.
- Look at headings and sub headings to gain some idea of the structure of the article/chapter.
- Look at the diagrams/ figures/charts to gain a better understanding of the material.
- Try to explain, using your own words, what you believe the reading is about.

- Look up any unfamiliar words in a dictionary. Some words have very specific meanings in a particular discipline area so it may be useful to find a glossary of terms or subject specific dictionary for your discipline.
- Try and find a simpler text on the same subject so that you can grasp the main concepts being discussed before you attempt to read the more difficult text again.
- Discuss the reading with other students or with your lecturer/tutor
- Try to find supporting source

Add Tips

- Reading in academic purpose just like a vice versa of writing in academic purpose
- Its included the detail
- Writing :

Idea \rightarrow writing

Reading :

writing \rightarrow idea