Workshop 1: The Three-Pass Approach to reading papers

Agenda

Review 'How to Read a Paper' by Keshav (2007)

Focus on the First-Pass

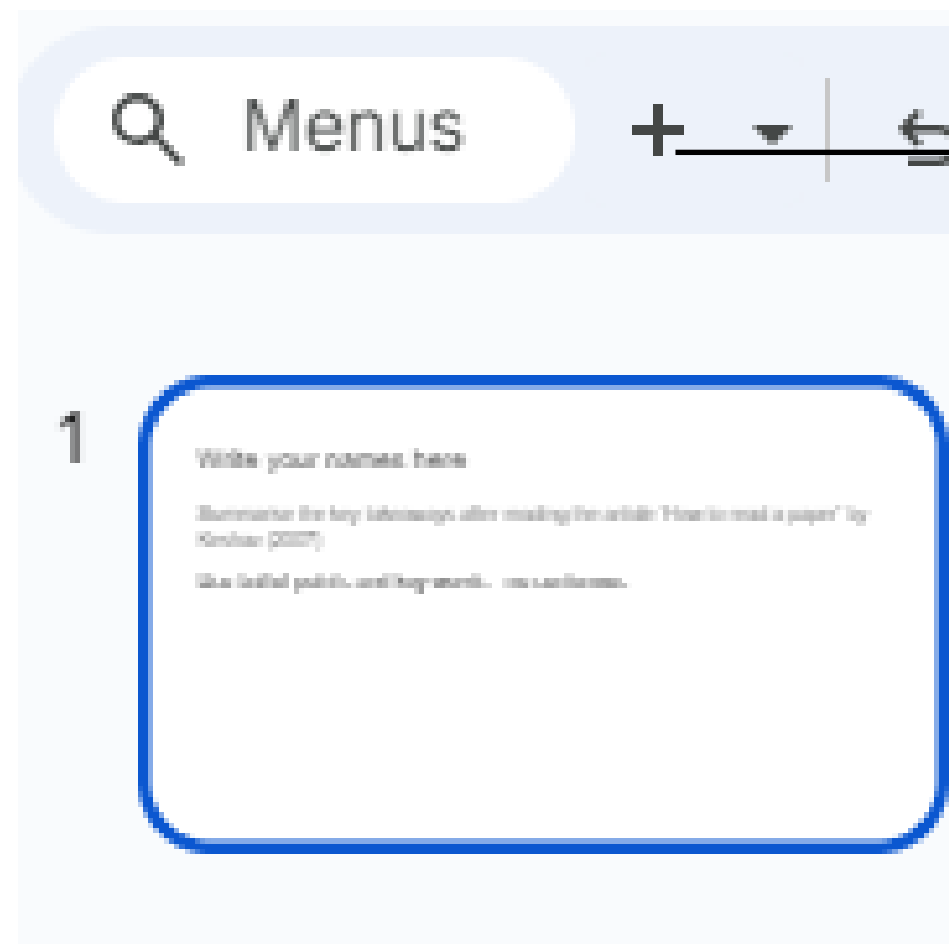In-class 'live' practice of using this method

**Carnegie
Mellon
University**

How to read a paper by Keshav (2007)

- In pairs – discuss the main takeaways from reading this article
- Now (with your partner) go to Canvas and use Google Slides (in Modules):

Add a slide then write your names in the Heading Box.

Summarize the key takeaways from reading the article using bullet points & keywords

Summarizing the article using Google Slides

- Add a new slide
- Work in pairs
- Write your names at the top - Heading section
- **Summarize the key takeaways from this article**
- Use bullet points / key words - no sentences

Focusing on the First-Pass

- What is the purpose of the First-Pass?

- What kind of information should you have after conducting the First -Pass?

- Imagine you are the author of a research paper – why is the First-Pass approach important to you as an author?

Reading a paper using the First-Pass approach (10 minutes)

1. Carefully read the title, abstract, and introduction

2. Read the section and sub-section headings

3. Read the conclusions

4. Glance over the references, mentally ticking off the ones you've already read

Real-Time Recognition and Translation of Kinyarwanda Sign Language into Kinyarwanda Text

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Note down the following using Google Slides

▸ Add a new slide under the slide that you used in the last task

1. *Category*: What type of paper is this? A measurement paper? An analysis of an existing system? A description of a research prototype?

2. *Context*: Which other papers is it related to? Which theoretical bases were used to analyze the problem?

3. *Correctness*: Do the assumptions appear to be valid?

4. *Contributions*: What are the paper's main contributions?

5. *Clarity*: Is the paper well written?

One-sentence summary of the paper

‣ Imagine you are writing a literature review on a similar topic. How can you summarize this paper in one sentence (max 30 words)?

‣ E.g. The LSTM model, Media Pipe, and Flask framework were used to translate Kinyarwanda Sign Language into Rwandan text which has the potential to achieve a high level of accuracy.

Reflection of today's session

1. Can you apply the First-Pass approach in other modules?

2. Is this workshop helpful to you? Perhaps in the future?

Summary

▸ The First-Pass gives you an overview of the paper focusing on the 5Cs.

▸ This approach is significant for you as a reader as well as an author

▸ Spend 5 to 10 minutes
▸ 1. Carefully read the title, abstract, and introduction
▸ 2. Read the section and sub-section headings
▸ 3. Read the conclusions & skim the references

▸ At the end of the first pass, you should be able to answer the five Cs: Category, Context, Correctness, Contributions & Clarity

References and acknowledgement

1. Keshav, Srinivasan. "How to read a paper." ACM SIGCOMM Computer Communication Review 37.3 (2007): 83-84.

2. Niyizamwiyitira, C & Semindu, E "Real-Time Recognition and Translation of Kinyarwanda Sign Language into Kinyarwanda Text" (To be published)