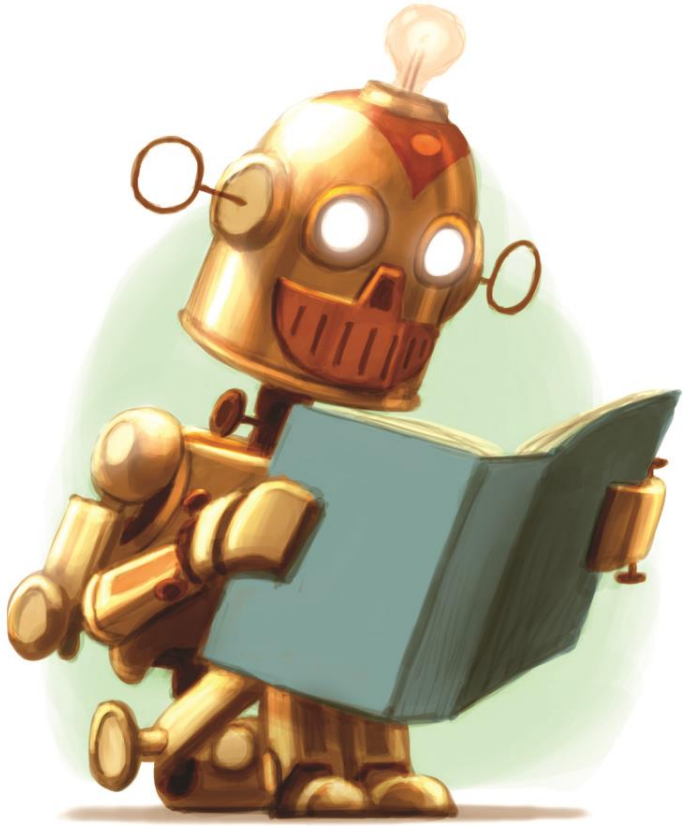
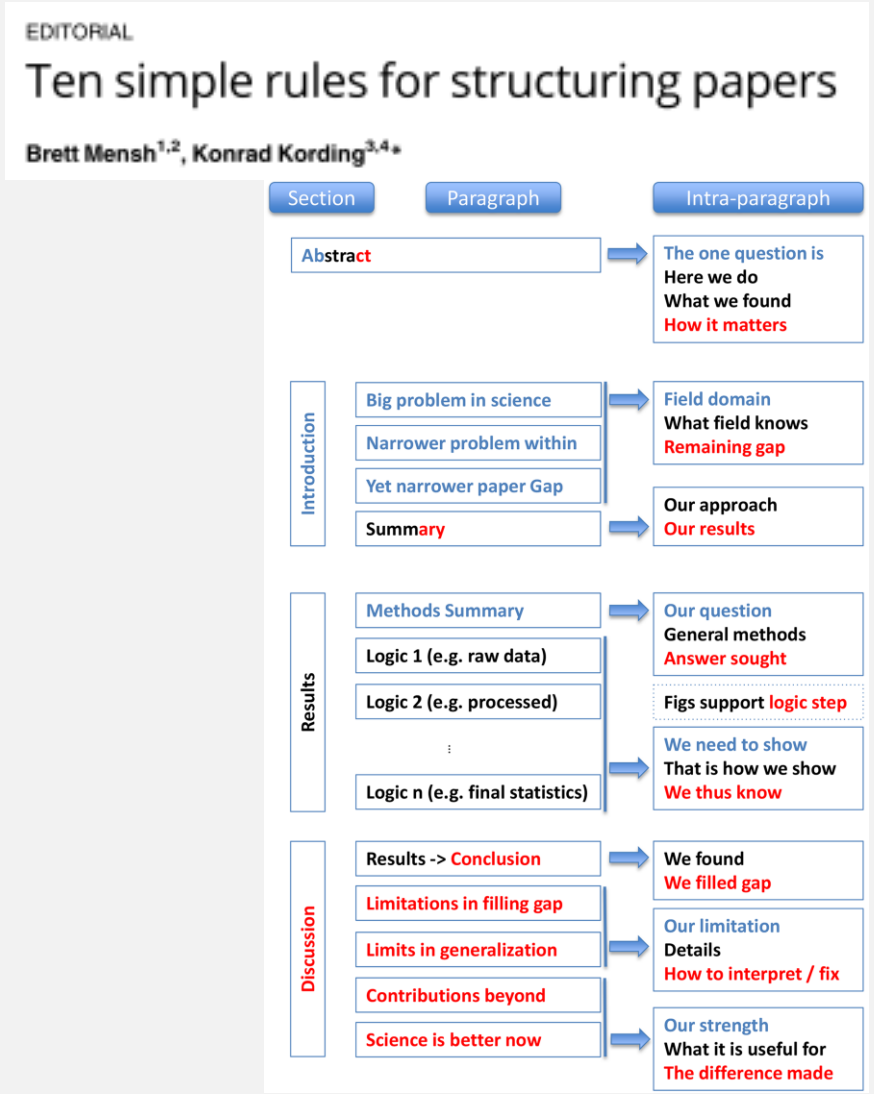


Mini Tutorial: Critically Reading and Communicating Science Research

A Guide For Paper Summaries, Paper Presentations and Opinion Essay

Taking Advantage of Structure

- Context-Content-Conclusion scheme
  - See Mensh & Kording 2017 Rule 3
- Guides how you read papers
  - Determine if related paper is worth reading
  - Where to find specific info you are looking for
- Guides writing and presentation structure for clear communication

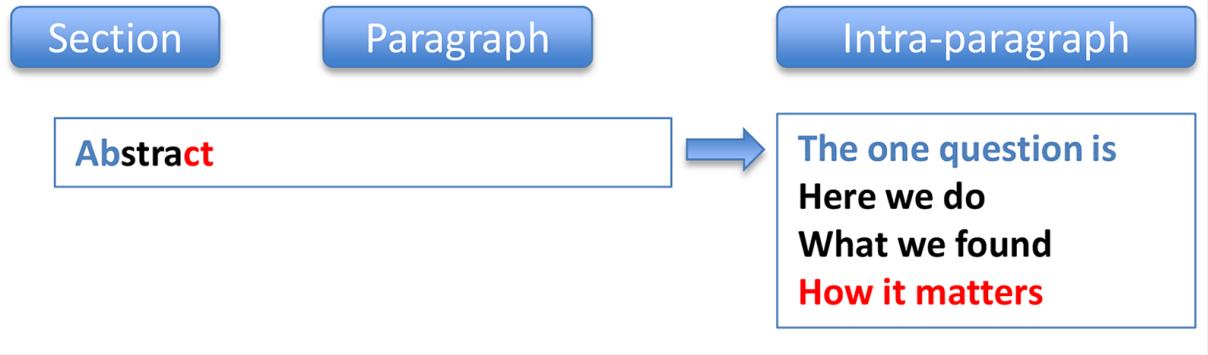


Abstract & 3 Cs

- Special Section:
- Summarizes Context-Content-Conclusion of paper's central idea

- Abstract communicates
  - What is research question and why is it interesting?
  - What did they do and find?
  - Why should I care about findings?

- Generate questions to further specify above details as you read rest of paper (or decide if related paper is worth reading)

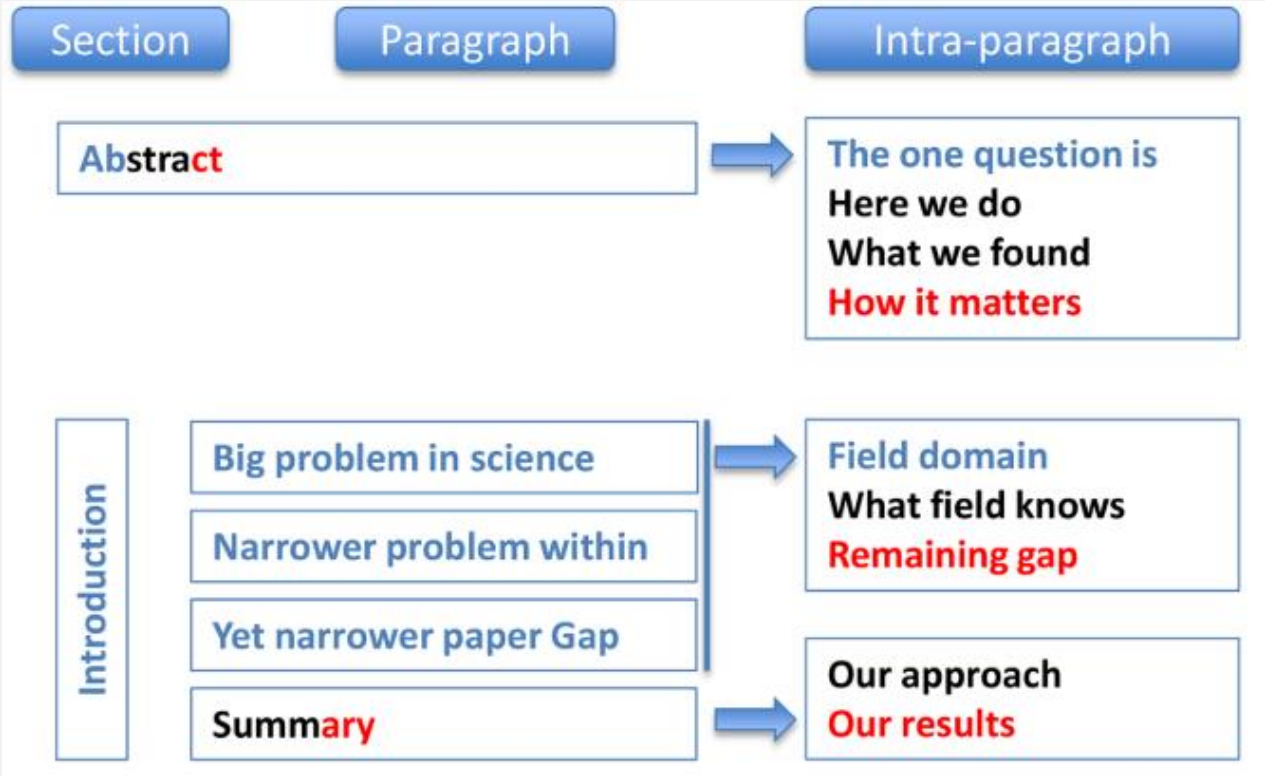


Mensh & Kording 2017

Introduction further elaborates CCC

- Outline of "Big" and "Narrow" problems in science helps evaluate contribution of particular paper to field

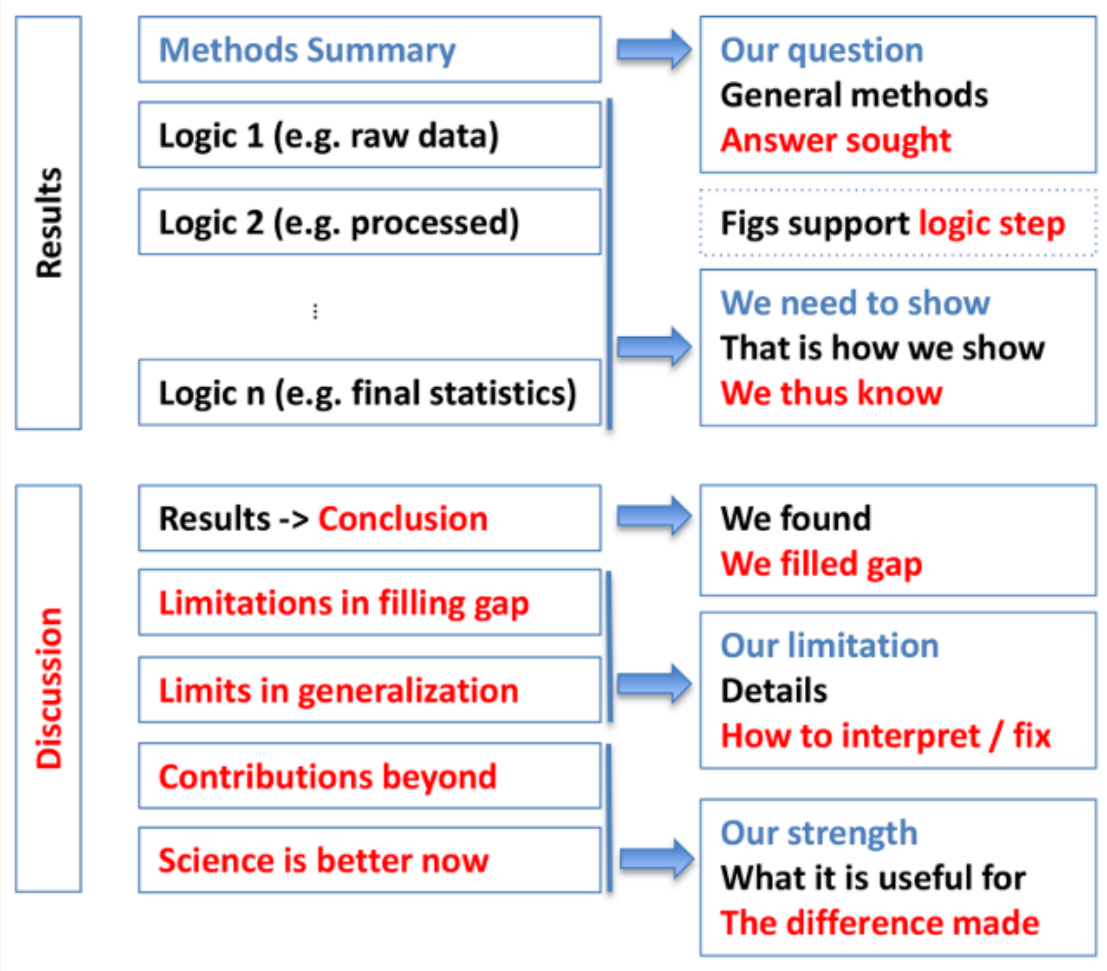
- Examples of questions to be answered by reading paper and/or related papers:
  - Is specific gap worth investigating?
  - Does this approach solve gap?
  - Do these results really answer the gap statement?



Mensh & Kording 2017

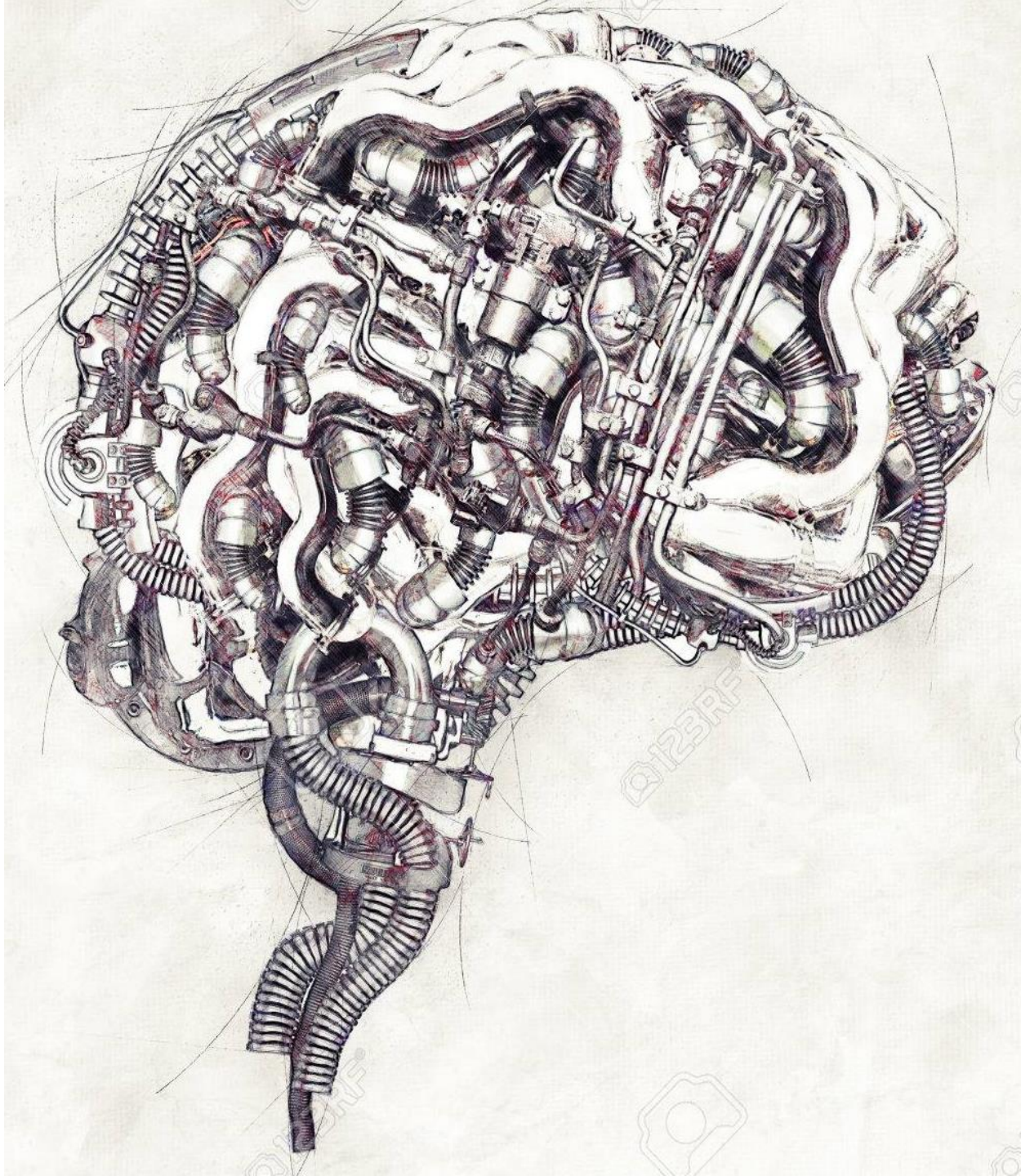
Results and Discussion – Subquestion level CCC

- Each major finding and corresponding conclusions has its own Context-Content-Conclusion structure
- Makes it easier to select specific results that you think are most important and interesting
- Guide for assignments
  - Context-Content-Conclusion at different levels of detail
  - Paper summary: CCC for 1 message
  - Presentation and Opinion Essay: High Level CCC + CCC for each submessage or subargument



Mensh & Kording 2017

TA Office Hours

- Email me to book appointment

- Bring questions about
  - Paper Presentations
  - Team-Based Learning Projects
  - Specific questions for Jonas&Kording 2017 paper / other papers (NOT draft review)