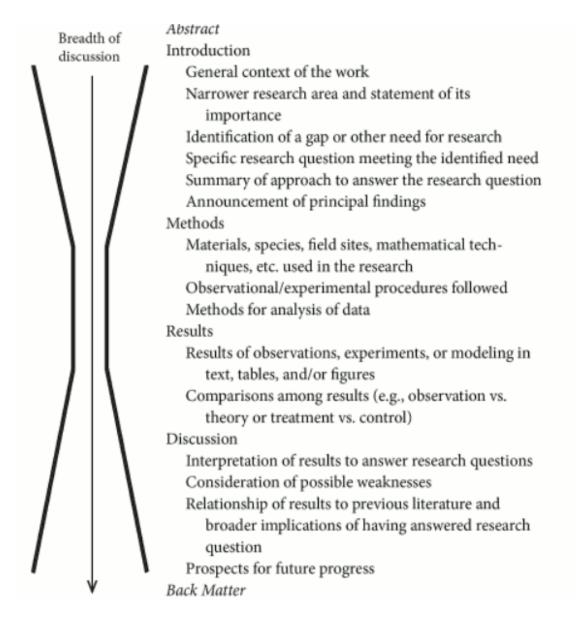
Discussion



"I didn't just jump to conclusions. I hopped and skipped first."

Discussion



Elements of the Discussion

- We listed four "elements" of a Discussion
- Actually, I think it would have been better to split one of them
 so today, five "elements".
 - 1. Interpretation of results to answer research question
 - 2. Consideration of possible weaknesses
 - 3. Relationship of results to previous literature
 - 4. Broader implications of answering research question
 - 5. Prospects for future progress

1. Interpretation of results to answer research question

- This is the key part usually find it at beginning of Discussion
- Often occurs again at the end ("Conclusions")
- Some limited repetition of results often needed, but don't get carried away (looking to summarize and point out critical results)
- Should you point out when results were unexpected?
 - Unexpected results are memorable
 - Unexpected results are (often) honest
 - Unexpected results can be dissatisfying if unexplained

2. Consideration of possible weaknesses

- Need to be honest about the limitations of your work
- But this is often overdone don't leave the reader with no reason to care!

- We use *hedging* to express limitations.
 - It is likely that...
 - It is possible that...
 - An alternative explanation is that...
 - If correct, our interpretation implies...

3. Relationship of results to previous literature

- You've answered your question. How does that fit into the broader field?
 - Support or contradict previous work?
 - Suggest a consensus in the field?
 - Suggest conflict in the field?
 - Raise new questions?

L15: Discussion

4. Broader implications of answering research question

- This can continue from "relationship to previous literature" how does your work move the field forward?
- Are there economic, ecological, human-health implications (possibly in the distant future)?
- This is where you reward a reader who wasn't already interested in your study system or in your narrow question

L15: Discussion

5. Prospects for future progress

- Not "more research is needed" too vague!
- What particular next steps are suggested by your work?
- Note that this doesn't mean your work is incomplete it means it's valuable because it points new directions.

L15: Discussion

Conclusions?

- Do you need a *Conclusions* section?
- Journals vary, but I'm not a big fan.
 - A Conclusions is often a short repetition of the Discussion:
 - It might reiterate research question and answer
 - It might state significance of the answer
 - It might identify directions for future research
 - If your Discussion is complex enough that this is needed, ask yourself: should you simplify the Discussion instead?
 - However, wrapping up the Discussion is this kind of mini-summary isn't a bad idea.

Today's workshop

Discussion markup

- I will provide a paper.
- Annotate/highlight text serving each of these five functions:
 - (1) Interpret results to answer research question
 - (2) Consider possible weaknesses
 - (3) Relate to previous literature
 - (4) Consider broader implications
 - (5) Consider prospects for future progress
- Also, highlight hedges. Are they excessive?
- What is the function of the last 3 sentences summary, major conclusion, or something else?
- What change would you make to the Discussion?