Logic: funnel flow structure

"The Lead": The most important info

Who? What? Where? When? Why? How?
Approximately 30 words (1-2 thin paragraphs)
May include a "hook" (provocative quote or question)

"The Body": The crucial info

Argument, Controversy, Story, Issue Evidence, background, details, logic, etc.

Quotes, photos, video, and audio that support, dispute, expand the topic

"The Tail": extra info Interesting/Related items May include extra context In blogs, columns, and

n blogs, columns, and other editorials: the assessment of the journalist

- Inverse pyramid: start big and get smaller
 - This applies both to the structure of a section and to each paragraph in the structure
- DO NOT: build up to a surprising conclusion. This is not Avengers; conclusions come first

Generic outline of a research paper

- Title
 - Exact
 - Clear and complete, but succinct
 - Strong and noticeable or boring
- Abstract
 - Optional: one sentence intro
 - Key information expressed concisely
 - Enticing and inspirational
 - Descriptive

The title and abstract are the two elements that will attract readers to your work!

Generic outline of a research paper

- Introduction / Context
 - Motivation and importance of problem (the "why?")
 - Background, history, context, previous literature (the theory)
 - Current state and unknown/s (the questions)
 - What and how of current contribution (the hypothesis)
 - Approach, scope and limitations (the objective)
 - Layout of presentation (the roadmap)
 - Note: does not actually begin the argument

The introduction prepares the reader and generally follows a cohesive "funnel flow" or "inverse pyramid" structure.

Generic outline of a research paper

Middle

- Observations or equations (methods and materials)
- Data reduction or equation development
- Analysis techniques and figures/narrative, in digestible portions
- All of above in enough detail for a trained scientist to repeat work
- Findings (results) and interpretation
- Discussion of and implications of results; compare to others'

End

- Summary, conclusions, future work (nothing new)
- Acknowledgements
- References

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Journalist

Stages of Writing

- Pre-writing thinking/planning
 - gather information
 - generate ideas
 - plan composition: content, format
 - consider layout and design
- Composing
 - turn notes into coherent sentences
 - develop paragraphs
- Revising
 - re-write with vision
 - develop logical flow

- Editing
 - pay attention to word choice,
 grammar
 - engage in creative/convincing phrasing
- Submission & Evaluation
 - Referee comments
- Publication / Distribution
 - Proofing
 - Production

Stages of Writing

- Organize
- Procrastinate
- Produce draft
- Revise
- Proofread
- Obtain feedback

These stages are not always chronological

Beginning (and Ending) Considerations

Take the reader's perspective

- Be aware that readers are selective and need to be drawn in
- Place reader/user needs first
- Make communication efficient and accessible
- Consider appropriate document mechanics and structure
- Set context and convey relevant information
- Choose proper tone, voice, rhythm
- Use clear language
- Lead reader from the familiar to the unfamiliar
- Anticipate reactions of readers
- Above all, connect ideas

Starting the Document

Start from <u>Outline</u> OR <u>Figures</u> (OR Introduction)

- Adjust and refine the outline as you write
- Remember that less is more!
 - Sometimes ideas need to be cut
 - Focus reader attention on main points and supporting logic
 - Provide enough detail, but too much gets confusing
- Make sure the Title and Abstract
 - reflect content of paper
 - draw both people and search engines to your work
 - I usually write the abstract and finish the title as the last step in the draft