Writing/Speaking Support for 20.109



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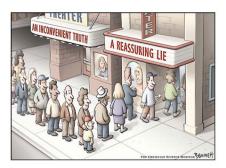
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Getting to know you: Two truths and one lie

☐ Write three statements about yourself, two of them true and one a lie.



Getting to know you, part 2: Letter to Atissa, Neal, and Linda

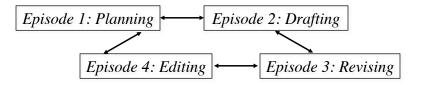
- ☐ What have been your experiences with scientific writing (e.g., lab reports, research articles, reviews)? With other writing tasks?
- ☐ What have been your experiences with giving oral presentations (whether scientific or not)?
- ☐ How would you describe yourself as a writer? As a public speaker?
- □ What are your writing/speaking goals for 20.109?

Modeling the writing process lets us know at which points we encounter trouble.



Goals/Questions for the Writer

What do I know about my topic?
What is my purpose for writing?
Who are my intended readers and how much do they know about my topic?
How is this task like others I have had before?
What structure will work best for my topic?



Effective writers are able to self-monitor their composing strategies



- 1. Declarative Knowledge: Knowing what strategies are available
- 2. Procedural Knowledge: Knowing how to use a strategy.
- 3. Conditional Knowledge: Knowing how and when to use a strategy.

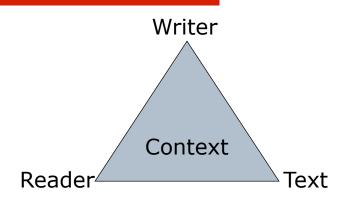
The goal is to develop all three types of knowledge about each phase of the writing process.

Scientific writers need to control the rhetoric of scientific writing.



According to Aristotle, rhetoric is "the art of finding in any given case the available means of persuasion."

Any writing act can be described in terms of rhetorical triangles.



Writers balance the relationship between themselves, their texts, their readers, and the context in which this balancing act takes place.

The goal of scientific writing is to court your audience.

Michael Halloran on Watson & Crick's 1953 "The Structure for DNA"

"The April 1953 paper, then, is really just the initial move in a rhetorical strategy aimed at gaining and holding the attention of an audience. As such, it presumes an understanding of science as a human community in which neither facts nor ideas speak for themselves, and the attention of the audience must be courted."



Reality tends to complicate these triangles.

Multiple Purposes:

- To explain
- To entertain
- To persuade
- (To get an A)

Multiple Audiences:

- Yourself
- Imagined reader
- Peers
- Instructors



Writing and research are complex processes enabled by language.





"Language, oral or written, is an expressive instrument through which we communicate what we have previously thought [or discovered]. It is also the reflective instrument through which we think, alone or with others, about what we are doing." Paul Connolly

Good MIT Resources



The Mayfield Guide On-Line

http://www.mhhe.com/mayfieldpub/tsw/home.htm

The MIT Writing and Communication Center

Room 12-132; 617/253-3090 Appointments can be made from http://web.mit.edu/writing/.



Writing Resources on the 20.109 Wiki

