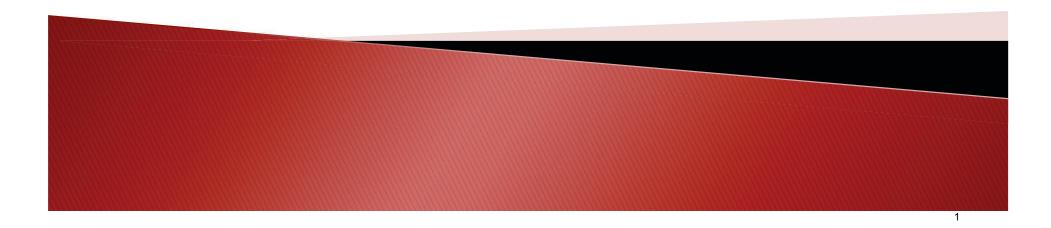
### The Logic of Persuasion: Identifying, Critiquing, and Developing Appeals to Logos

21W.016: Designing Meaning



#### The Rhetorical Situation

Cultural, Historical and Social Context

Text--Logos

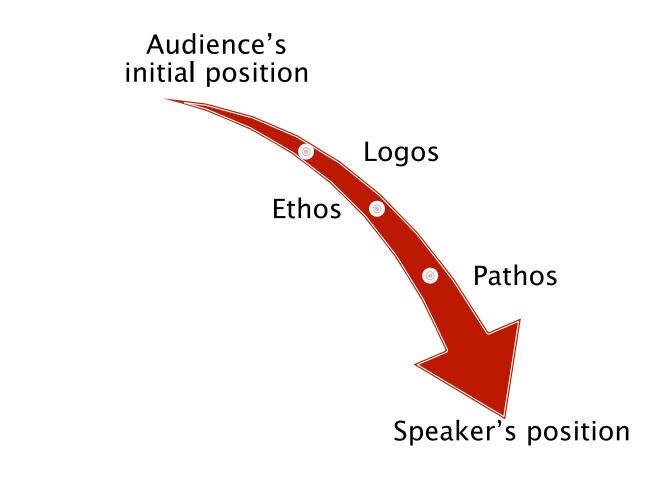
Audience-Pathos

Speaker/Writer-Ethos



All images are in the public domain.

### Persuasion and Appeals



### **Stasis Theory**

Fact—what is this? what happened?

Examples: is the ivory-billed woodpecker extinct? What nutrients do carrots provide? What was the cost of the American Revolution?

Definition—what kind of thing is this? (links the concrete to the conceptual, or places a thing in a classification system) Examples: what does this text say about (i.e., how is it implicitly defining) equality, masculinity, individualism, the American Dream? Does this defendant's action fit the definition of rape? Should this area be classified as a wetlands?

**Causation**—What are the causes, effects, or consequences of this?

Examples: what caused this outbreak of bird flu? What effect does the history of segregation have on present demographics? What is the influence of environment on psychology? Why did this plan fail or succeed?

#### Value—How should we evaluate or judge it?

Examples: Is person X a good role model? Which film should win the Academy Awards? What's the best process for refining uranium?

#### Policy or Action—what should we do because of this?

Examples: why should we vote for this candidate? Should we approve the Keystone XL pipeline project? What should we do about climate change?

#### Stases can be "open" or "closed"



#### "Lower" stases must be closed before "higher" stases

e.g.— "Climate change is just a theory; there's no scientific consensus" argues that the fact stasis is still open, and thus no policy debate can occur

Except . . .



## Why are arguments so hard to recognize and analyze?

- "Judges make surprisingly little use of verbal indicators of logical structure, and often use obscure or vague indicators
- Judges present only some pieces of the arguments, expecting the reader to fill in the rest
- The pieces necessarily appear in the text in a "disrupted" order, compared with their proper relationships in the argument structure
- When producing their written judgements, judges have multiple purposes in addition to clearly conveying a complex structure; and the argument is intermingled, in the text, with other material
- Judges may be more focused on conveying the conceptual essence of the argument than the full argument structure." van Gelder, 2010

### **Classical Logos**

Syllogism

Socrates is a man All men are mortal Thus, Socrates is mortal



### **Classical Logos**

Syllogism

Socrates is a man All men are mortal Thus, Socrates is mortal

Deductive reasoning Valid or invalid Leads to Truth

#### Enthymeme

Socrates is a man, and thus, mortal.

Socrates is a man, and thus, has a y chromosome.

Socrates's y chromosome...

Socrates is a man, and thus, won't ask for directions.

### Inductive inference

Yolanda's grandfather has white hair. John's grandfather has white hair. Becky's grandfather has white hair. Julio's grandfather has white hair.

Grandfathers have white hair. (all? As a general rule? For this sample set?)

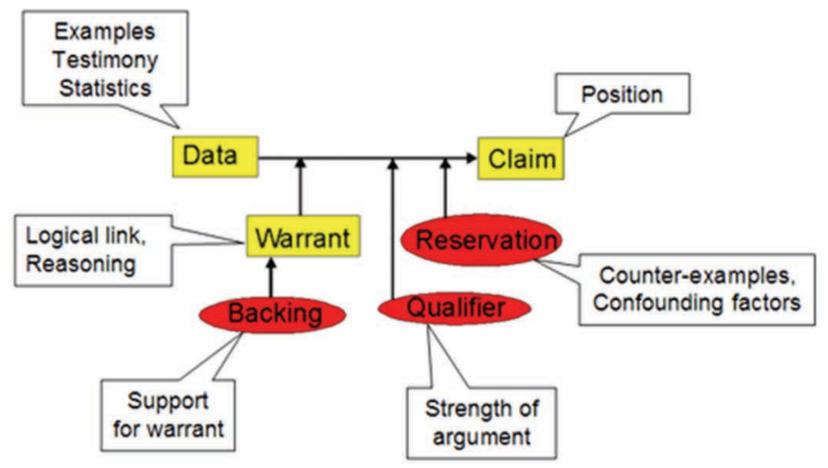
White-haired men are grandfathers.

That white-haired man with Abdul must be his grandfather.

### Deductive and Inductive reasoning interconnect in Presumptive

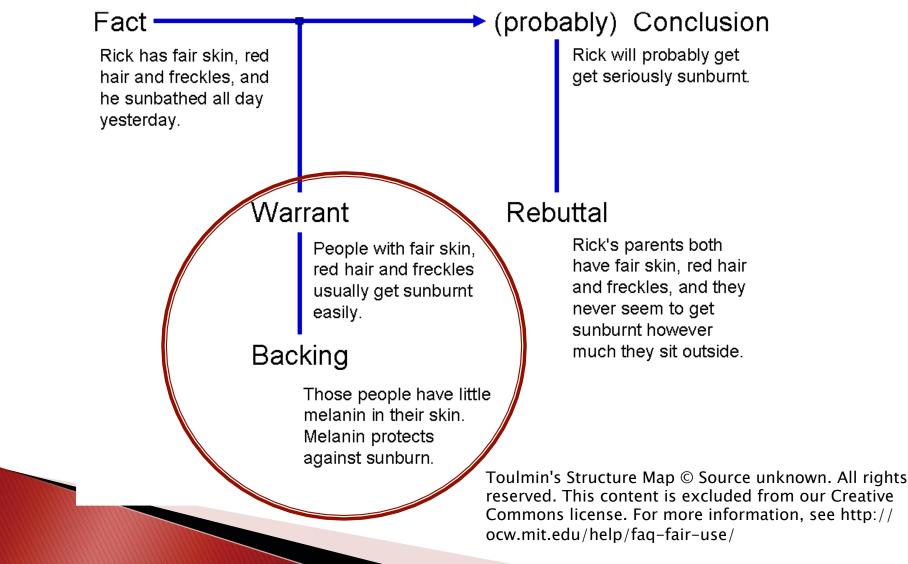
reasoning Construct a Notice a generalization pattern What was the source of the original generalization? How well did the generalization State a "truth" fit the evidence? Use the about an generalization individual How similar is this case as a premise case to the original ones? Elide the generalization in an enthymeme

### Toulmin's structure



Toulmin's Model of Argumentation © Source unknown. All rights reserved. This content is excluded from our Creative Commons license. For more information, see http://ocw.mit.edu/help/faq-fair-use/

## Toulmin's structure maps individual claims (microarguments)



## Warrants, backing, and rebuttals are often unstated

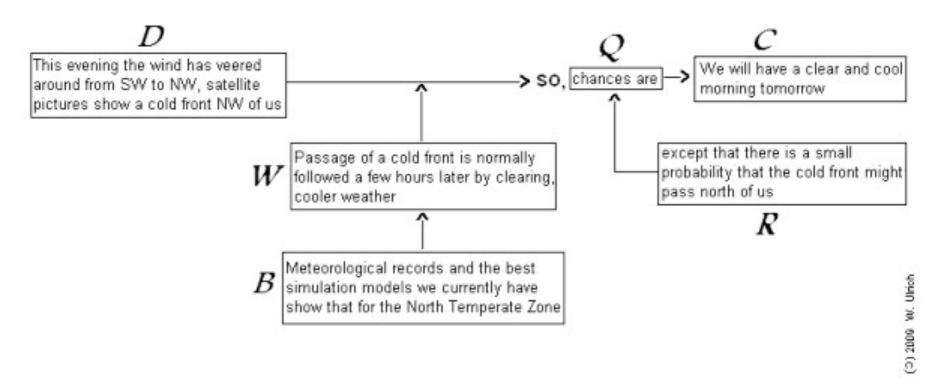
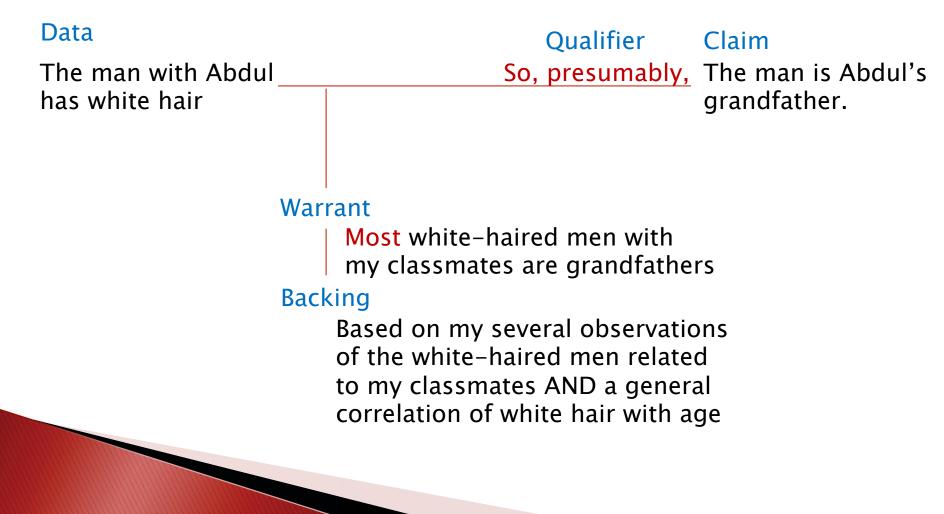


Fig. 3: The layout of arguments: example "weather forecast". Source: <u>Werner Ulrich</u>, adapted from Toulmin, Stephen. *An Introduction to Reasoning*. 2nd edition. Pearson, 1984, p. 124.

# Claims in lower stases can form warrants for claims in higher stases

Data 1 million animals are killed each year in		Qualifier So, except for treatments	Claim Animals should not be used to test
cosmetics testing		of diseases,	skin treatments
War	rant	Rebuttal: human more than anima	
	Animal lives should matter more than profits		
Backing			
Studies have shown that companies use animals to reduce the cost of tests			anies use animals

### Our grandfather example



Claims can stem from different types of data and thus warrants Claim: The man is Abdul's grandfather

Fact 1: The man has white hair

Fact 2: The man is with Abdul's grandmother

Fact 3: This is bring your grandfather to school day

Fact 4: Abdul called him "grandpa."

## We can usually choose among different types of "proof"

Aristotle: Rhetoric is finding in any situation the best available means of persuasion

Argumentation schemes help us identify the possible means of persuasion and whether they can work well in a given situation

### **Argumentation Schemes**

Identify the underlying form of many warrants

Helps identify what critical questions to ask about specific claims

Identify ways in which ethos, pathos, and logos overlap



### **Common Schemes**

Position to Know **Expert Opinion Popular** Opinion **Popular Practice** Analogy Correlation to Cause **Positive Consequences Negative Consequences Slippery Slope** Sign Commitment/Inconsistent Commitment Ad Hominem Verbal Classification

Which of these schemes relate to Ethos? Logos? Pathos?

We should build a wall to strengthen our borders

We should raise the minimum wage to \$15/hour

### **Common Schemes**

Position to Know **Expert Opinion Popular** Opinion **Popular Practice** Analogy Correlation to Cause **Positive Consequences Negative Consequences Slippery Slope** Sign Commitment/Inconsistent Commitment Ad Hominem Verbal Classification

Which of these schemes might relate to arguments about

Fact?

**Definition?** 

Causation?

Value?

**Policy**?

### Ways we can work with argument analysis

Analyzing the argument structure of given texts—critiquing strengths and weaknesses

Improving an argument with stronger proofs

Arguing in response to an argument

Brainstorming potential proofs for a claim

Debating multiple sides of a claim

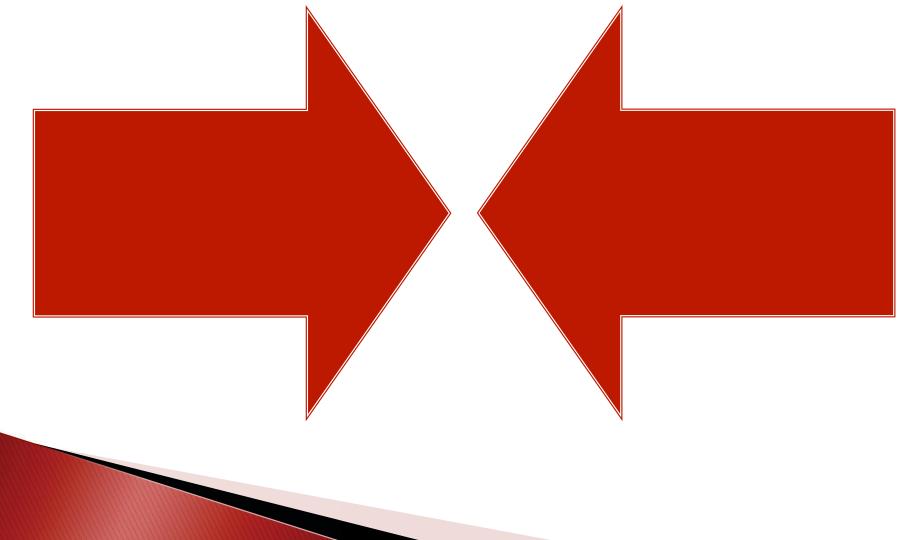
### We can also analyze

Who won a debate and why?

Did the debate as a whole work to draw out the best arguments on both sides, and thus to clarify the options and enable stronger choices between policies?



### Arguments cannot be resolved without "clash"



### What would make these arguments more persuasive?

<u>The First Presidential Debate: Hillary Clinton and</u> <u>Donald Trump (Full Debate) | NBC News</u> YouTube

<u>Final Presidential Debate: Donald Trump vs</u> <u>Hillary Clinton – Third Presidential Debate 2016</u> YouTube



#### How would you argue in response?

Design a counter argument using strategies we've learned:

Appeals to ethos, pathos, logos

Stasis theory

Argument structure

Argumentation schemes

Label all of your strategies!

MIT OpenCourseWare https://ocw.mit.edu

#### 21W.016 Writing and Rhetoric: Designing Meaning Fall 2016

For information about citing these materials or our Terms of Use, visit: https://ocw/mit.edu/terms.