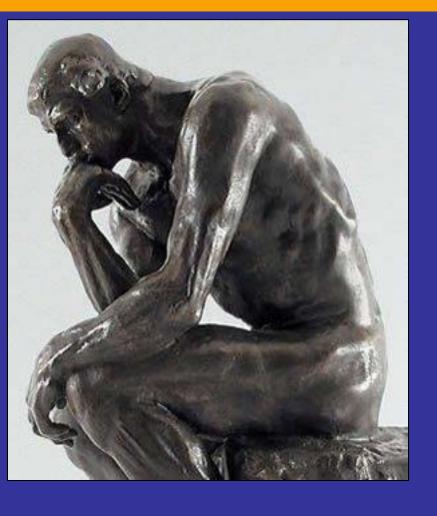
# THE ROLE OF REASONING AND PERSUASION IN APPEALS

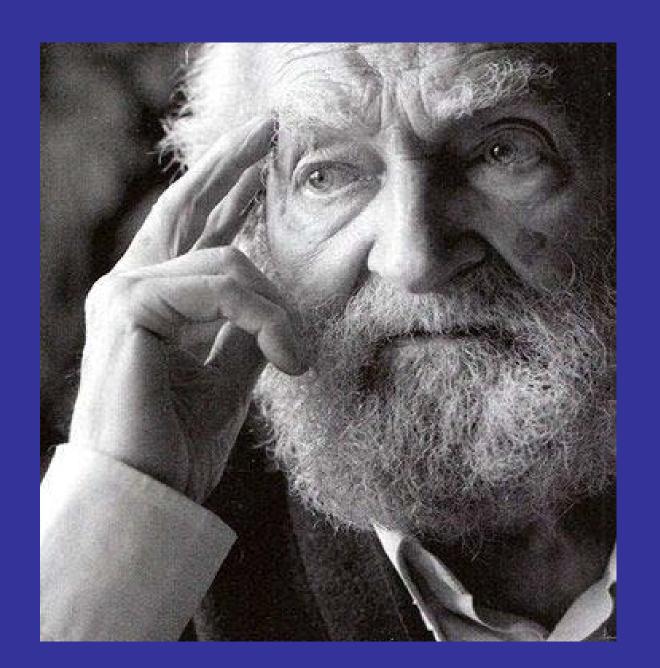
RICHARD R. ORSINGER
McCurley, Orsinger, McCurley,
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Tower Life Building, Suite 1717
San Antonio, Texas 78205



## Reasoning



## Emotion



How

Do

We

Think?

### HYPOTHESIS: TWO TYPES OF THINKING

### **QUICK**

- Fast
- Intuitive
- Emotional
- Associative
- Pragmatic
- Unconscious
- Uncontrollable

### **DELIBERATE**

- Slow
- Analytical
- Rational
- Sequential
- Rule-bound
- Conscious
- Controllable

### REASONING THROUGH CATEGORIZATION

Categorization is one of the most basic functions of living creatures. We live in a categorized world – table, chair, male, female, democracy, monarchy – every object and event is unique, but we act towards them as members of classes.

Eleanor Rosch University of California, Berkeley

### **CATEGORIES OF LAW**

- Property Law
- Contract Law
- Tort Law
- Family Law
- Criminal Law
- Tax Law
- Environmental Law
- Legal Procedure
- Evidence Law

#### **CATEGORIES**

Categories work best when –

the things inside each category are homogeneous

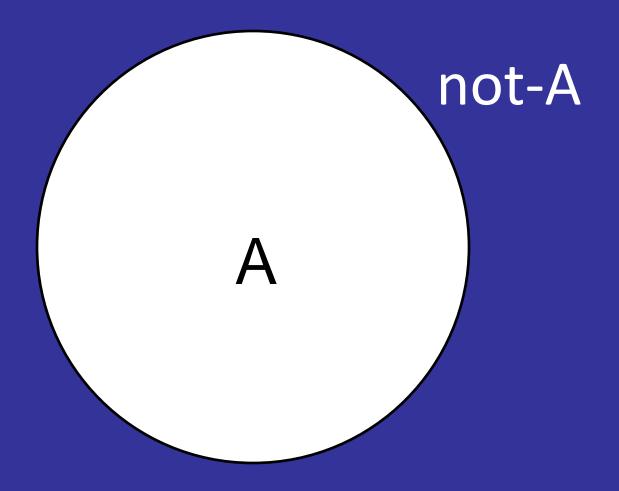
> the **boundaries** of the categories are **clear** 

> the categories are mutually exclusive

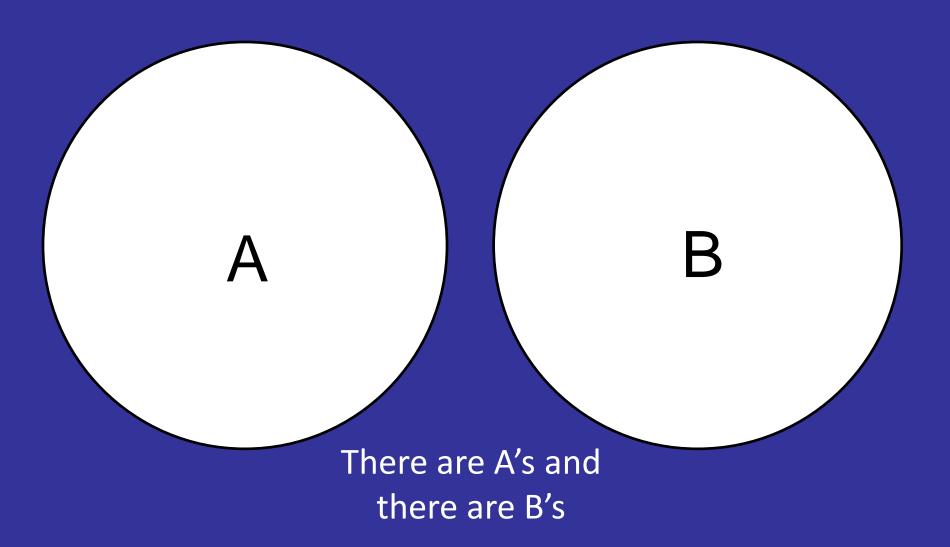


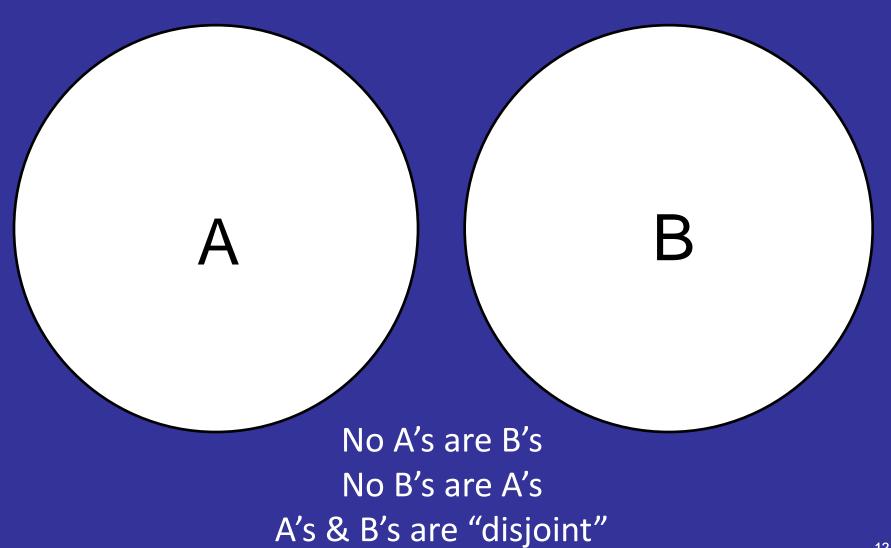
Leonhard Euler (1768)

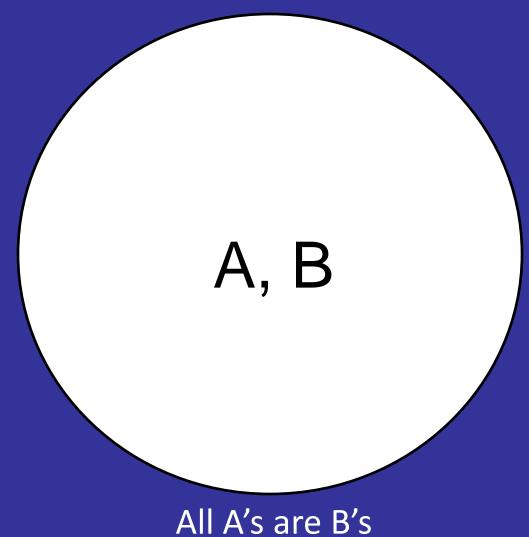
An easy way to visualize categories was developed by Swiss mathematician Leonhard Euler in 1768 – Euler Circles



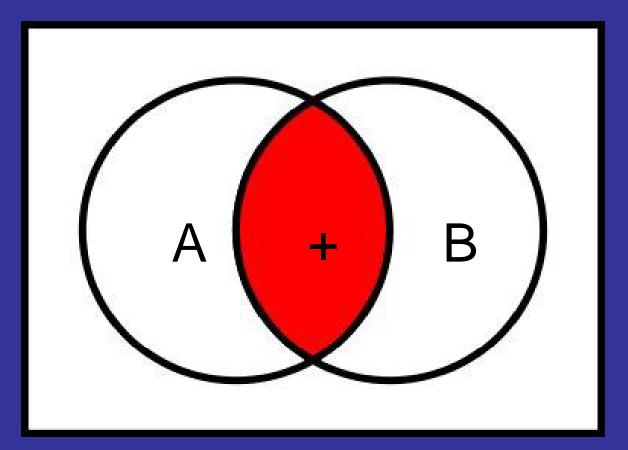
A thing is either A or it is not-A



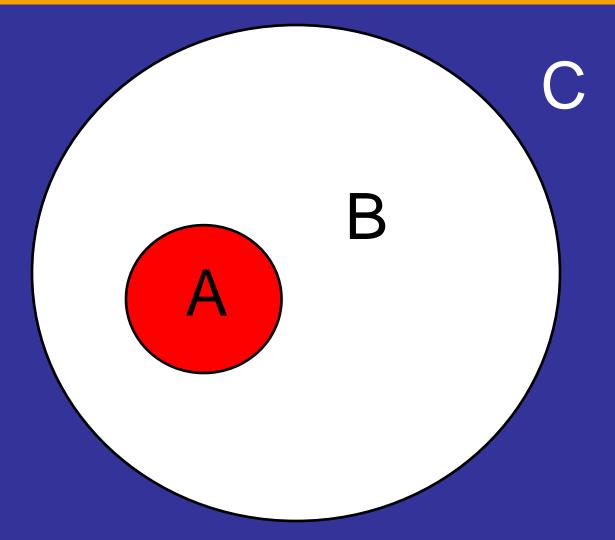




All A's are B's All B's are A's



Some A's are B's
Some B's are A's
Some things are both A & B (+)



All A's are B's
Some B's are A's
No A's are C's; no B's are C's

## LOGICAL REASONING

There are three types of logical reasoning:

Deductive – where two overlapping Premises lead by necessity to a Conclusion

Inductive – where multiple instances suggest a unifying principle which is identified and then tested to determine its validity

Analogical – where something unfamiliar is compared to things familiar until the greatest similarity is determined; after that, the new thing is placed in the category of the old, and is treated like the old

## General **Deductive** Inductive Reasoning Reasoning **Analogical** Reasoning Specific

### STRENGTH OF TYPES OF LOGICAL REASONING

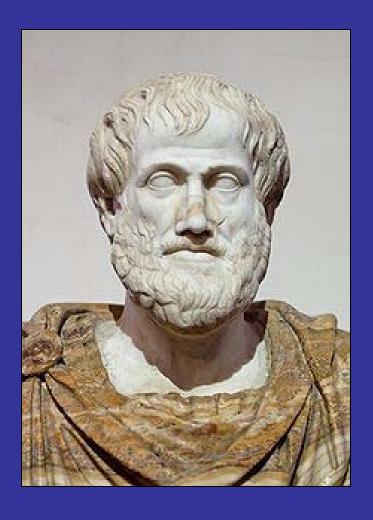
TYPE PREMISES CONCLUSION

Deductive: True -----> Certain

Inductive: True -----> Probable

Analogical: True -----> Sufficient

## DEDUCTIVE REASONING (AS ENVISIONED BY ARISTOTLE)



Syllogism

&

**Implication** 

## ARISTOTLE'S DEDUCTIVE REASONING THE CATEGORICAL SYLLOGISM

All men are mortal.

General

Socrates is a man.

Therefore, Socrates is mortal.

Specific

(showing the three propositions)

All men are mortal. (Major Premise)

Socrates is a man. (Minor Premise)

Therefore, Socrates is mortal. (Conclusion)

(showing the three Terms)

All men are mortal.

Socrates is a man.

Therefore, Socrates is mortal.

Categorical Syllogisms have three "Terms": The Major Term, the Minor Term, the Middle Term

(with Minor Term marked)

All men are mortal.

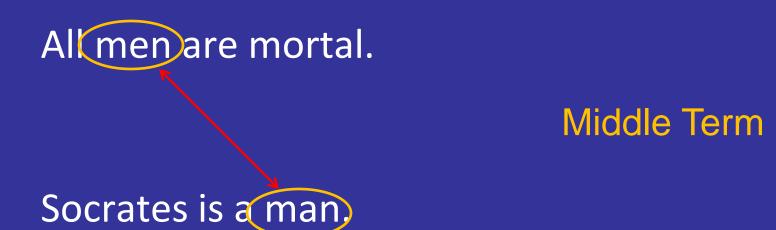
Socrates is a man.

Minor Term

Therefore, Socrates is mortal.

The Minor Term links the Minor Premise to the Conclusion

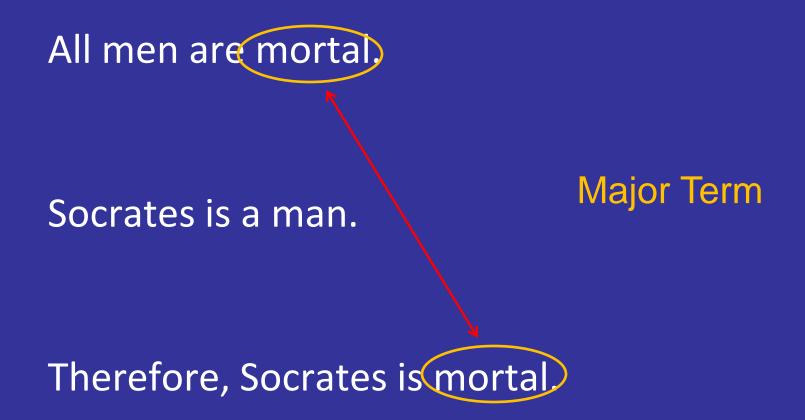
(with Middle Term marked)



Therefore, Socrates is mortal.

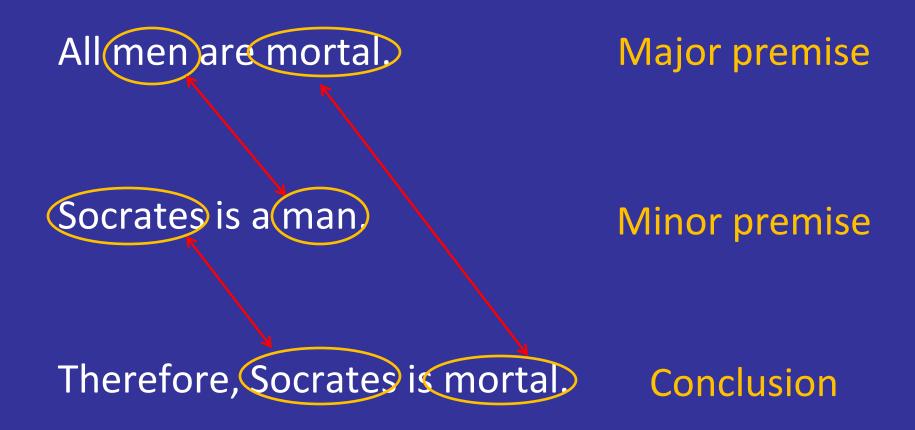
The Middle Term links the Major Premise to the Minor Premise

(with Major Term marked)

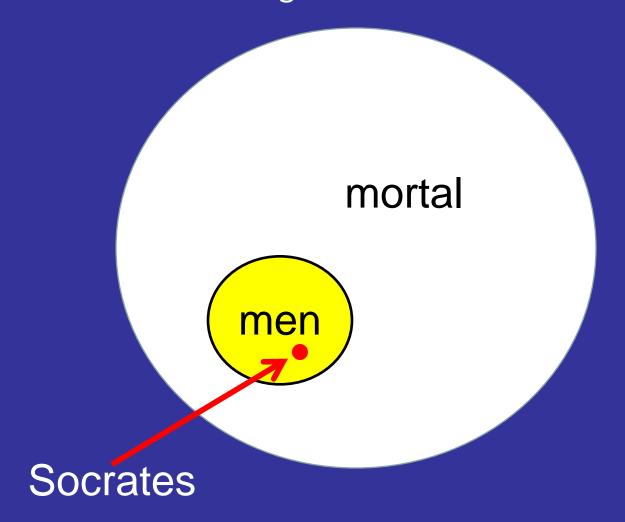


The Major Term links the Major Premise to the Conclusion

(all Propositions and Terms marked)



## Depicting the Categorical Syllogism using Euler Circles



[stated abstractly]

All B's are C's

A is a B (therefore)

A is a C

(Aristotle invented variables)

B's C's All men are mortal.

A B Socrates is a man.

A C Therefore, Socrates is mortal.

All B's are C's

A is a B

A is a C

### DEDUCTIVE REASONING - IMPLICATION Rule #1

P implies Q

If P then Q

 $P \rightarrow Q$ 

 $P \supset Q$ 

[the Antecedent] implies [the Consequent]

a "conditional proposition"

**Modus Ponens** 

## DEDUCTIVE REASONING - IMPLICATION Rule #2

Not-Q implies Not-P

If Q is false, then P is false

Not  $Q \rightarrow Not P$ 

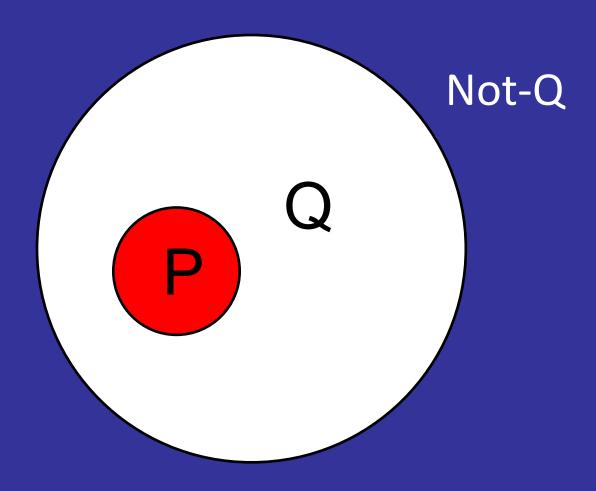
Not  $Q \supset Not P$ 

Denying the Consequent negates the Antecedent

**Modus Tollens** 

Contrapositive

### **Deductive Reasoning - Implication**



"P implies Q"
"Not-Q implies Not-P"

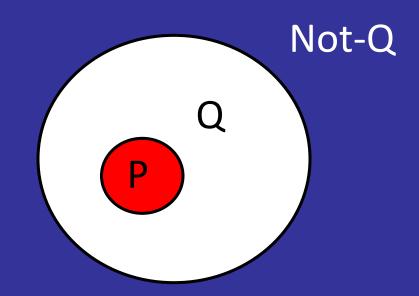
### DEDUCTIVE REASONING – IMPLICATION Rule #1

Modus Ponens
(The way that affirms by affirming)

(1) P implies Q.

(2) P.

(3) Q.



"P implies Q"

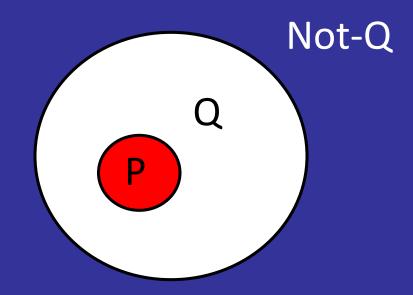
### DEDUCTIVE REASONING – IMPLICATION Rule #2

Modus Tollens
(The way that denies by denying)

(1) P implies Q.

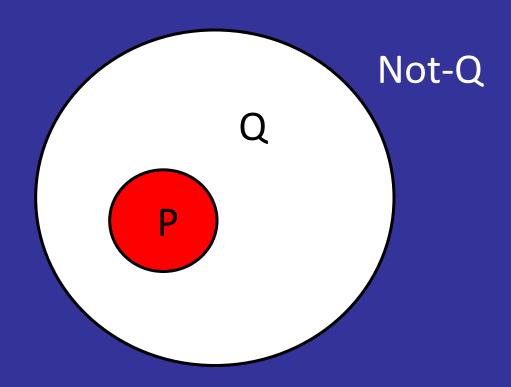
(2) Not-Q.

(3) Not-P.



"Not-Q implies Not-P"

### **DEDUCTIVE REASONING - IMPLICATION**



Of the four possible implications:

**Valid** 

 $P \longrightarrow Q$ 

Not-Q → Not-P

<u>Invalid</u>

 $Q \longrightarrow P$ 

Not-P → Not-Q

Modus Ponens
(Affirming the Antecedent)

- (1)If it rained last night, then the sidewalk is wet.
- (2) It rained last night.
- (3) The sidewalk is wet.

Valid Reasoning

Modus Tollens
(Negating the Consequent)

- (1)If it rained last night, then the sidewalk is wet.
- (2) The sidewalk is dry.
- (3) It did not rain last night.

Valid Reasoning

### Negating the Antecedent

- (1)If it rained last night, then the sidewalk is wet.
- (2) It did not rain last night.
- (3) The sidewalk is dry.

### Negating the Antecedent

- (1)If it rained last night, then the sidewalk is wet.
- (2) It did not rain last night.
- (3) The sidewalk is dry. X

Invalid Reasoning – a Fallacy

### Affirming the Consequent

- (1)If it rained last night, then the sidewalk is wet.
- (2) The sidewalk is wet.
- (3) It rained last night.

### Affirming the Consequent

- (1)If it rained last night, then the sidewalk is wet.
- (2) The sidewalk is wet.
- (3) It rained last night. X

Invalid Reasoning – a Fallacy

### Robinson vs. DuPont, 923 S.W.2d 549 (Tex. 1995)

- (1)Benlate causes Brown Leaf Disease.
- (2) After spraying trees with DuPont's fertilizer, Defendant's trees exhibited Brown Leaf Disease.
- (3) DuPont's fertilizer contained Benlate.

This is Modus Ponens logic.

Fallacy of Affirming the Consequent

However, Benlate is a possible cause

### **INDUCTIVE REASONING - GENERALIZATION**

Swan A is white

Swan B is white

Swan C is white

All swans are white

### **INDUCTIVE REASONING - GENERALIZATION**

Swan A is white

Swan B is white

Swan C is white

All swans are white



"A Black Swan"

Fallacy of Hasty Generalization

### INDUCTIVE REASONING — STATISICAL GENERALIZATION

- (1) A representative sample is selected.
- (2) Sample is 70% green
- (3) Population is 70% green

#### 1948 Presidential Election

- (1) Surveys of sample groups
- (2) Majority of samples supports Dewey
- (3) Majority of Americans support Dewey

**Dewey defeats Truman!** 

### 1948 Presidential Election

- (1) Last survey 30 days before the election
- (2) Majority supports Dewey
- (3) Dewey defeats Truman

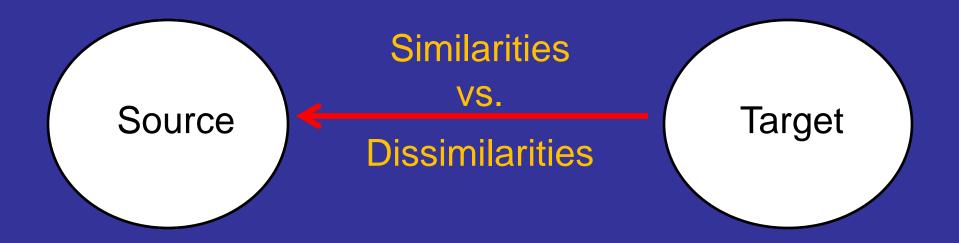


#### 1948 Presidential Election

- (1) Last survey 30 days before the election
- (2) Majority supports Dewey
- (3) Dewey defeats Truman X



Fallacy of Non-Representative Sample



Comparing common features vs. essential characteristics.

- Homology comparison based on common features.
- ➤ Shared Abstraction comparison based on essential characteristics.

Comparing items is simpler than comparing relationships.

Example: "Hand is to palm as foot is to \_\_\_\_."

- (1) A belongs in Category Y
- (2) B is like A
- (3) B belongs in Category Y

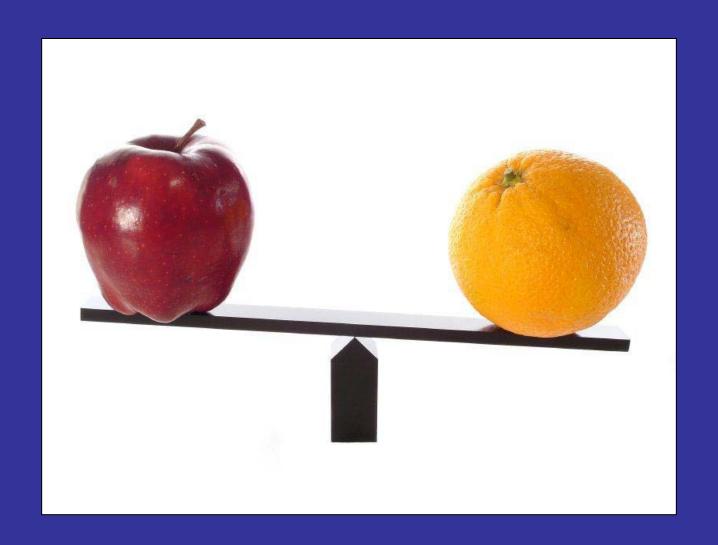
- (1) A belongs in Category Y
- (2) B is like A in some respects
- (3) B is unlike A in other respects

(4a)B belongs in Category Y

or

(4b)B does not belong in Category Y

### Fallacy of False Analogy



### DEDUCTIVE REASONING (LAW)

- (1) Innkeepers are liable for theft of property.
- (2) The defendant is an innkeeper.
- (3) The defendant is liable for theft of property.

Innkeeper Category

### DEDUCTIVE REASONING (LAW)

- (1) Ferry operators are not liable for theft.
- (2) The defendant is a ferry operator.
- (3) The defendant is not liable for theft.

**Ferry Operator Category** 

## "CLOSE CASE" DOESN'T FIT WELL INTO ESTABLISHED CATEGORIES SO USE ANALOGICAL REASONING

- (1) Innkeepers are liable for theft.
- (2) Ferry operators are not liable for theft.
- (3) Defendant's ferry provides overnight lodging; purse stolen from private cabin
- (4a) Defendant is liable for theft.

or

(4b) Defendant is not liable for theft.

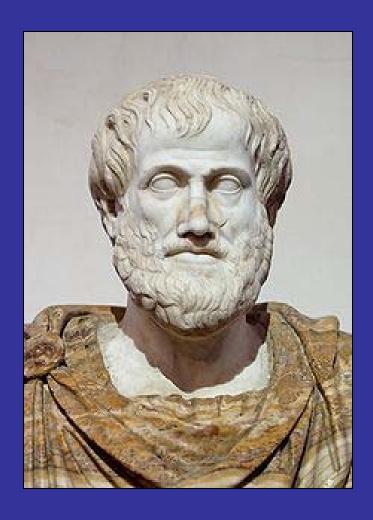
### ANALOGICAL REASONING

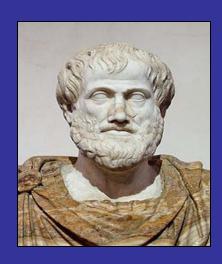
If it walks like a duck, quacks like a duck, looks like a duck It's probably a duck.

# PERSUASION (EFFECT OF SPEAKER ON AUDIENCE)

### THE AUDIENCE IN A LAWSUIT

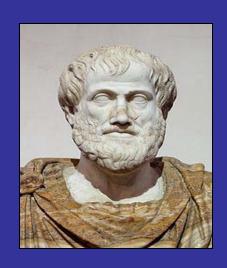
- Parties
- Jury
- Trial Judge
- Appellate Panel
- Supreme Court
- Public
- History





Rhetoric--

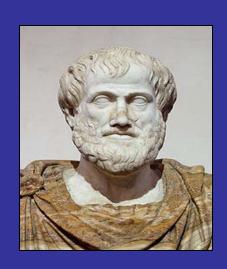
"may be defined as the faculty of observing in any given case the available means of persuasion."



**Ethos** 

Logos

**Pathos** 

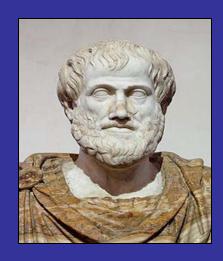


**Ethos - Character** 

**Logos** - Rational

Pathos - Feelings

### ARISTOTLE'S RHETORIC: ETHOS

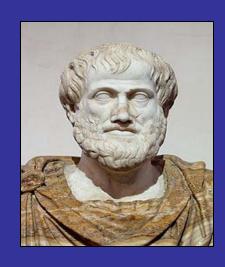


Ethos --

"[There is persuasion] through character whenever the speech is spoken in such a way as to make the speaker worthy of credence. . . . And this should result from the speech, not from the previous opinion that the speaker is a certain kind of person."

Aristotle

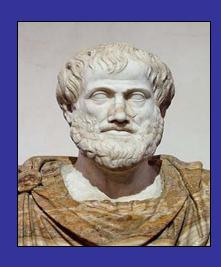
#### ARISTOTLE'S RHETORIC: LOGOS



Logos --

is an argument that persuades through reasoning, often sequential steps, and often arguing from premises to conclusions. This reasoning is usually in the form of a partial Syllogism, which Aristotle called an "Enthymeme," that invokes themes familiar to the audience.

### **ARISTOTLE'S RHETORIC: PATHOS**



Pathos --

is influencing the audience by emotional appeal, rather than logical argument. Emotions might include love, fear, patriotism, guilt, hate, joy, pity, attraction, etc.

Done by using words in a way that their emotive meaning affects the audience independently from their logical meaning.

### LOGOS

- Deductive reasoning (syllogism; enthymeme; implication)
- Inductive reasoning (generalization)
- Analogical reasoning (comparison)
- Fallacious reasoning (illogical arguments)
- Indirect argument (negation leads to contradiction)

### LOGOS: PERSUASION THROUGH DEDUCTIVE REASONING

Syllogism (overlapping Premises lead with certainty to Conclusion)

Enthymeme (Syllogistic argument, usually with an unstated Premise, using themes that will resonate with the audience; Conclusion may not be certain but must be believable)

Implication (P → Q; not-Q → not-P)

### LOGOS: PERSUADING THROUGH INDUCTIVE REASONING

Drawing general principles from particular instances

Statistical Generalization

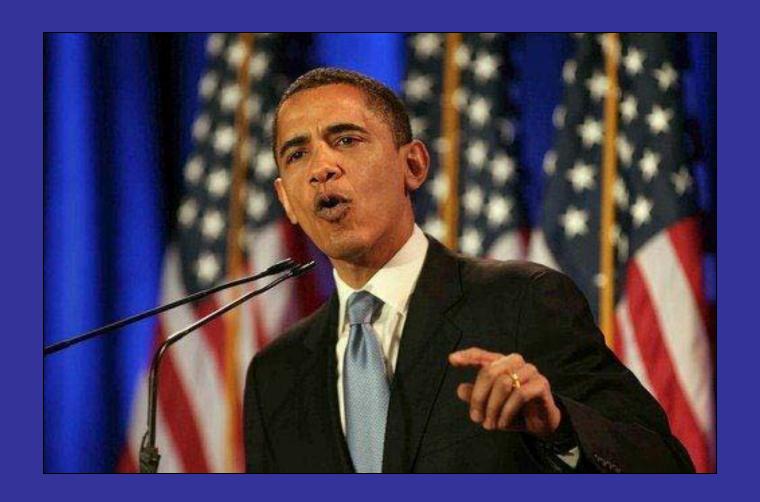
### LOGOS: PERSUADING THROUGH REASONING BY ANALOGY

Showing the problem at hand is like another, more familiar problem, and should be treated the same way.

### **PATHOS**

- Sympathetic facts
- Antagonistic facts
- Narration (arrangement of facts)
- Emotive words
- Similes
- Evocative symbolism

## **PATHOS**



Obama uses the flag for Pathos

## **PATHOS**



Reagan used the flag for Pathos Conservatives now use Reagan for Pathos

## **Five Canons of Rhetoric**

- Invention designing the argument
- Arrangement finding an effective order
- Style how things are said
- Memory extemporize or memorize; don't read
- Delivery voice, posture, dress, gesture

# The First Canon of Rhetoric: Invention

In designing an argument, you must consider:

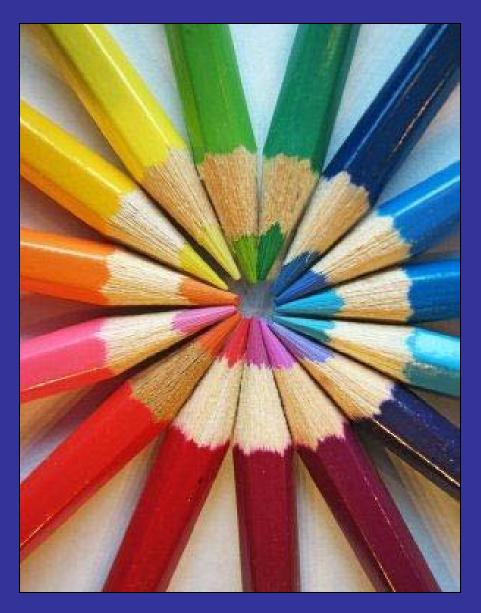
- (1) the audience's needs, desires, thoughts, prejudices, etc.
- (2) available evidence (facts, testimony, statistics, maxims, examples, laws)
- (3) appeal to the audience (Ethos, Pathos, Logos)
- (4) topics (commonplaces that will synch with the audience); and
- (5) timing and opportunity, coupled with accurate targeting (Kairos)

## Fallacies of Argumentation

- Accident
- Ambiguity
- Amphiboly
- Appeal to Authority
- Appeal to Belief
- Appeal to Emotion
- Appeal to Fear

- Appeal to Flattery
- Appeal to Novelty
- Appeal to Pity
- Appeal to Ridicule
- Appeal to Tradition
- Argumentum ad Hominem

# ADDING COLOR TO ARGUMENTS



## **COLORING TOOLS**

- Humor--biased vs. neutral
- Narrative —clock time vs. story time; Grand Narratives
- Sequence—climactic vs. anti-climactic
- Comparisons—similarities vs. contrast
- Invocations—quoting Jefferson, Lincoln, JFK
- Emphasis—voice modulation, gesturing
- Figures of Speech—allusion, anaphora, hyperbole, innuendo, juxtaposition, metaphor, paradox, personification, simile, repetition, rhetorical questions, understatement, etc.
- Rhetorical Fallacies—arguments traditionally said to be improper but that are nonetheless effective

# MODERN ARGUMENT THEORY

### **DEFEASIBLE ARGUMENTS**

Professor John L. Pollock championed defeasible arguments:

- In deductive logic, arguments are not defeasible (subject to defeat).
- In life, arguments are almost always defeasible.
- Defeasible arguments are taken as true until they are disproved.
- A defeasible argument is our best judgment based on the information we have received so far. We remain openminded to revision.
- Pollock describes defeasable argument "defeaters," either "undercutting defeators" or "rebutting defeaters."

### **ARGUMENT SCHEMES**

Canadian Professor Douglas Walton has developed syllogistic patterns of common *Argument Schemes* (including fallacies) with matching *Critical Questions*.

The Argument Scheme for Argument From Expert

Major Premise: Source E is an expert in subject domain S containing proposition A.

Minor Premise: E asserts that proposition A in domain S is true (false).

Conclusion: A should be accepted as true.

# ARGUMENT SCHEMES Argument from Expert

### **Critical Questions**

- 1. Expertise Question: How credible is E as an expert source?
- 2. Field Question: Is E an expert in the field that A is in?
- 3. Opinion Question: What did E assert that implies A?
- 4. Trustworthiness Question: Is E personally reliable as a source?
- 5. *Consistency Question*: Is A consistent with what other experts assert?
- 6. Backup Evidence Question: Is E's assertion based on evidence?

### **KAIROS**

This is the way Carl Glover put it:



The archer must exercise 'due measure and proportion' in aiming the arrow and drawing the bow string; he must hit a 'vital part of the body' to fell his prey; he must release the arrow at the 'exact or critical time' to strike a moving target.



# The End