

Core & Logical Structure of Arguments

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Elements of an Argument

- ▶ An **argument** states a **claim** and supports it with **reasons** and evidence from sources.
- ▶ When you make an argument, you become its **proponent**.
- ▶ **Counterarguments** stand in opposition to your argument / claim. They are arguments that try to explain why your argument is wrong. The person making the counterargument is your **opponent**.

Classical Arguments

- ▶ Patterned after persuasive speeches of ancient Greek and Roman orators.
- ▶ **Structure:**
 - ▶ Introduction
 - ▶ Presentation of writer's position
 - ▶ Summary of opposing views
 - ▶ Response to opposing views
 - ▶ Conclusion

Introduction

- ▶ **Purpose:** connect to the audience, get their attention
- ▶ **Structure:**
 - ▶ Attention grabber (e.g., a memorable scene)
 - ▶ Explanation of issue and needed background
 - ▶ Thesis
 - ▶ Forecasting
- ▶ *“Tell ‘em what you’re about to tell them”*

Presentation of writer's position

- ▶ **Purpose:** Support thesis
- ▶ **Structure:**
 - ▶ Main body of essay
 - ▶ Present and support each reason in turn
 - ▶ Tie to a value or belief held by the audience
- ▶ *“Tell ‘em”*

Summary of opposing views

- ▶ **Purpose:** Establish knowledge of alternative viewpoints
- ▶ **Structure:**
 - ▶ Fair and complete summary of opposing viewpoints

Response to opposing views

- ▶ **Purpose:** Illustrate in what ways the proponent's thesis is superior and inferior to the opposing views
- ▶ **Structure**
 - ▶ Refute or concede to opposing views
 - ▶ Show weaknesses in opposing views
 - ▶ Possibly concede on some strengths

Conclusion

- ▶ **Purpose:** Bring closure
- ▶ **Structure:**
 - ▶ Sum up thesis
 - ▶ Leave strong last impression
 - ▶ Call to action
- ▶ *“Tell ‘em what you told ‘em”*

Not the only way to do it

- ▶ Classical arguments are effective but they may not always be the most persuasive.
- ▶ Other possibilities:
 - ▶ Can critique opposing views first
 - ▶ Can reserve own opinion till the end
 - ▶ Show great sympathy for opposing views
 - ▶ Etc.

The rhetorical triangle

- ▶ **Logos:** appeal from logic
 - ▶ E.g., Kantian categorical imperative and universalizing lying
- ▶ **Ethos:** appeal from character, authority, credibility
 - ▶ E.g., “I have a Ph.D. in computer security, so you should trust me on topics related to that”
- ▶ **Pathos:** appeal from emotion, audience’s sympathy
 - ▶ E.g., Charity donation commercials

The Rhetorical...Rectangle?

- ▶ **Kairos:** appeal from opportunity / timing
 - ▶ Saying the right thing at the right time.
- ▶ What are examples of a kairotic argument right now?
- ▶ What are examples of a non-kairotic argument?

Issue questions and information questions

- ▶ Issue questions are the origin or arguments: Can usually be reasonably answered in multiple different ways.
 - ▶ Is CS4001 an interesting and useful class?
- ▶ Information questions generally have one factual answer.
 - ▶ How many students are registered in CS4001 this semester?
- ▶ To tell the difference: Can a simple gathering of facts answer it?

Group Activity

- ▶ In small groups of 2-4, pick one or more of the following questions and decide whether the question is an information question or an issue question:
 - ▶ What percentage of public schools in the United States are failing?
 - ▶ What is the effect on children of playing first-person-shooter games?
 - ▶ Is genetically modified corn safe for human consumption?
 - ▶ Should people get rid of their land lines and have only cell phones?
- ▶ Hint: Some questions could be either depending on the context! Think of contexts that could make these questions information vs. issue questions

Pseudo-arguments

- ▶ Rational arguments require two things:
 - ▶ Reasonable participants
 - ▶ Shared assumptions that can serve as a starting point
- ▶ Lacking either of these, arguments devolve into “pseudo-arguments”

Committed Believers and Fanatical Skeptics

- ▶ Committed believers:
 - ▶ Have their convictions and will not accept any claims that are inconsistent
 - ▶ Russel's teapot
- ▶ Fanatic skeptic:
 - ▶ Demand definitive proof when no proof is possible (e.g., that the sun will rise tomorrow)
 - ▶ Accept nothing short of absolute proof, which is usually impossible
- ▶ Both are “unreasonable” in the context of argumentation

Lack of shared assumptions

- ▶ Ideology
 - ▶ Literal interpretation of the bible vs metaphorical interpretation
 - ▶ Lack of shared assumption will lead to an impasse in discussing issues like evolution
- ▶ Personal opinions
 - ▶ “Nachos are better than pizza because nachos taste better”

Class activity: Which of the following will more likely lead to rational arguments?

- ▶ Are the Star Wars films good science fiction?
- ▶ Is it ethically justifiable to capture dolphins and train them for human entertainment?

Enthymeme

- ▶ An enthymeme is a claim supported by reasons.
- ▶ **Claims** answer an issue question
- ▶ **Reasons** are claims used to support other claims
 - ▶ ‘because’ clauses make the relationship clear
- ▶ “After school jobs are bad for teenagers because they take away study time”

Group Activity

- ▶ Issue: It is permissible to use racial profiling for airport screening.
- ▶ Come up with an enthymeme agreeing or disagreeing the statement above.
- ▶ Remember, an enthymeme consists of a **claim** and a **list of reasons**.

Enthymeme

- ▶ Enthymeme's are *incomplete* logical structures
 - ▶ Underlying assumptions must be stated to “complete” theme.
- ▶ This assumption is called the **warrant**.

Claim	After-school jobs are bad for teenagers
Reason	Because they take away study time
Warrant	Loss of study time is bad

Enthymeme

- ▶ Counter-claim: *After school jobs are good for teenagers because they teach responsibility and time management.*

Claim	
Reason	
Warrant	

Enthymeme

- Counter-claim: *After school jobs are good for teenagers because they teach responsibility and time management.*

Claim	After-school jobs are good for teenagers
Reason	Because they teach responsibility and time management
Warrant	Learning responsibility and time management is good

Grounds

- Grounds are supporting evidence that causes the audience to support your reason.

Claim	After-school jobs are good for teenagers
Reason	Because they teach responsibility and time management
Warrant	Learning responsibility and time management is good
Grounds	Evidence that teenagers with after-school jobs are more responsible and have better time management

Backing

- Arguments that support the warrant

Claim	After-school jobs are good for teenagers
Reason	Because they teach responsibility and time management
Warrant	Learning responsibility and time management is good
Grounds	Evidence that teenagers with after-school jobs are more responsible and have better time management
Backing	Evidence that more responsible teenagers with better time management skills have better outcomes

Group activity continued

- ▶ Issue: It is permissible to use racial profiling for airport screening.
- ▶ Add warrants, grounds & backing to the enthymemes from the previous activity

Conditions of rebuttal

- ▶ To rebut an argument, one can undermine:
 - ▶ Reasons and grounds
 - ▶ Warrant and backing

Conditions of rebuttal

- What are ways to rebut the following argument?

Claim	After-school jobs are good for teenagers
Reason	Because they teach responsibility and time management
Warrant	Learning responsibility and time management is good
Grounds	Evidence that teenagers with after-school jobs are more responsible and have better time management
Backing	Evidence that more responsible teenagers with better time management skills have better outcomes

Audience-based reasons

- ▶ Might need to make a different argument to different audiences.
- ▶ The Hawks want to build a new stadium and have the city fund part of the construction, but the city denies it.
- ▶ Need a different argument to convince:
 - ▶ People who object all public funding for sports arenas.
 - ▶ People who object to where the arena would be built.

Persuasion != Argumentation

- ▶ **Persuasion:** The process of convincing someone to do or believe something.
 - ▶ End-goal: convincing others
 - ▶ (not necessarily a bad thing)
- ▶ **Argumentation:** The process of establishing a claim and then **supporting** it with the use of logical reasoning, examples and research.
 - ▶ End-goal: consensus on “truth”