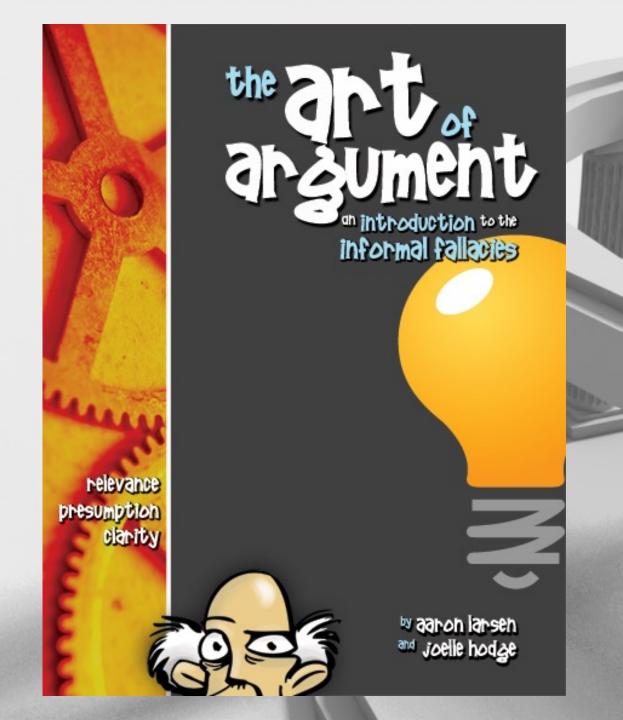


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Resources: www.christopherperrin.com



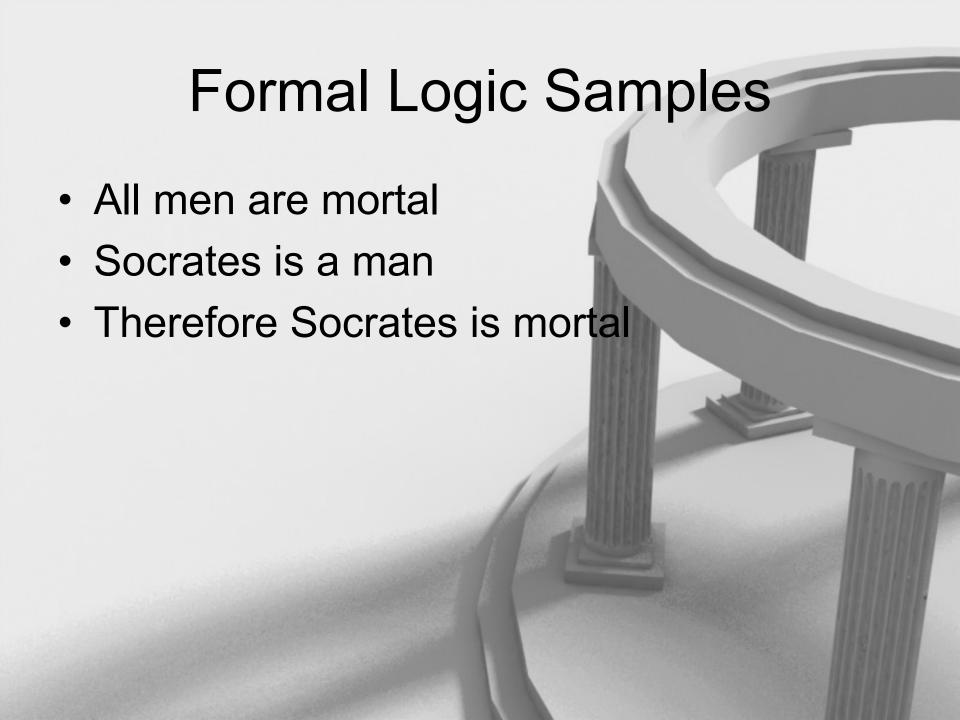
Formal and Informal Logic

Formal:

- Reasoning in the abstract
- Mostly deductive
- Concentrates on understanding the form of an argument
- Can be analyzed using symbols

Informal Logic

- Evaluating the end product of reasoning
- Mostly inductive
- Concentrates on evaluating the content of an argument
- Deals with ordinary language arguments in the interchange of ideas between people



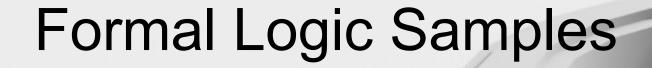
Formal Logic Samples

- All men are directionally-impaired
- Jim is a man
- Therefore Jim is directionally-impaired

Formal Logic Samples

- If P, then Q (modus ponens)
- P
- Then Q

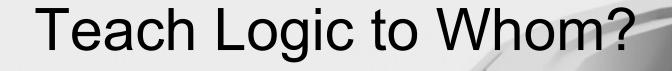
- If P, then Q (affirming the consequence)
- Q
- Therefore P



- If P, then Q (denying the antecedent)
- Not P
- Therefore not Q

Why Logic?

- Prone to wander
- Fallacia
- A vocabulary for errant reasoning
- Self-protection
- A sharp knife
- Means of mastering other subjects
- Being human
- Truth (argumentum)



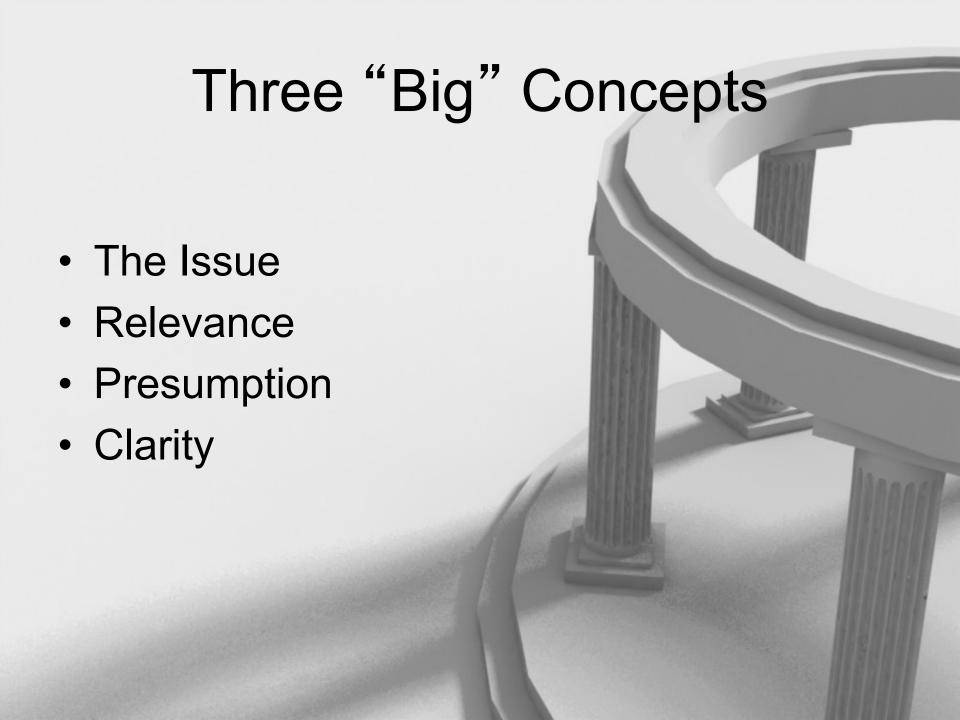
- Adolescents
- Argument, not quarreling
- Teach with the grain
- How to know when a child is "dialectic"



- Quite possibly you
- Learn to love finding fallacies, arguing
- Use a good text…like the Art of Argument.

How to Teach Logic?

- Give the students the context of formal and informal logic
- Show them the relevance and usefulness of studying informal logic
- Give them the big picture and an organizing scheme



Practical Pedagogy

- Have some fun
- Have students create their own fallacies
- Use fallacies in your instruction from time to time and see if they can catch you
- Have students regularly identify fallacies from various sources
- Review and practice throughout the year until fallacy finding becomes "second nature"
- Pull in another student (or more) if you can
- Use generous amounts of examples.



Appeal to Illegitimate Authority

FALLACIES OF RELEVANCE | Arguments that are really distractions from the main point.

Appeals to Emotion | Arguments that distract by arousing our emotions too much.

Appeal to Illegitimate Authority | Arguments that distract by attempting to shame the listener into agreement (ad verecundiam) by citing an illegitimate authority.

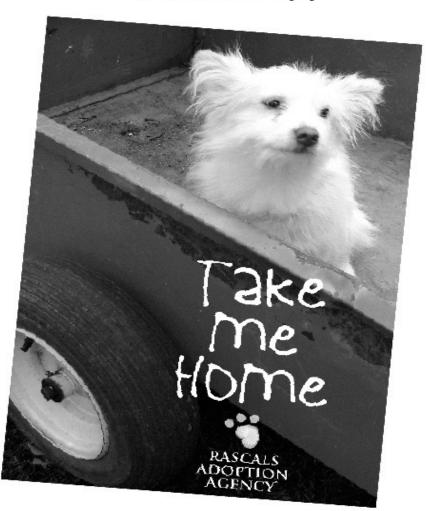


Appeal to Pity

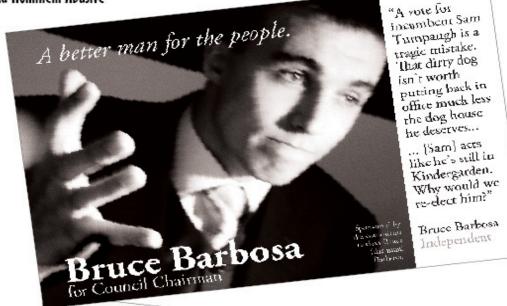
FALLACIES OF RELEVANCE | Arguments that are really distractions from the main point.

Appeals to Emotion | Arguments that distract by arousing our emotions too much.

Appeal to Pity (ad misericordiam) | Arguments that distract by making the audience feel sorry for the speaker or someone on behalf of whom he's arguing.



Ad Hominem Abusive



Um... where did you find your shirt? The luke-warm rack at Hot • Stuff Central"?

BUZZ Rack®



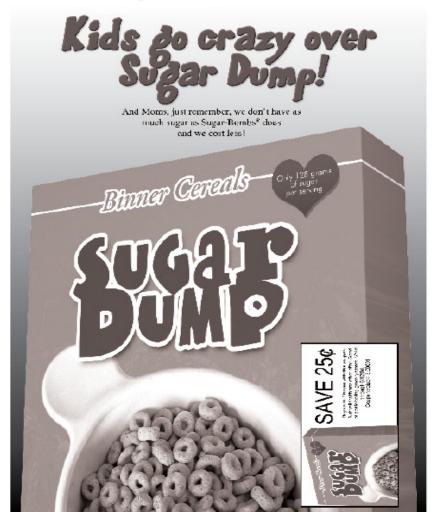
Tu Quoque

(Arguments against the source)

FALLACIES OF RELEVANCE | Arguments that are really distractions from the main point.

Ad Fontem Arguments | Arguments that distract by focusing the attention on an opponent.

Tu Quoque | Arguments that say that because the opposing speaker is flawed, his argument can't be true. "We might be bad, but they're worse, so go with us instead."



False (ause

FALLACIES OF PRESUMPTION | Arguments that make unwise assumptions about either the data or the nature of reasonable argument.

Fallacies of Induction | Arguments that misuse empirical data or don't follow proper methods of inductive reasoning.

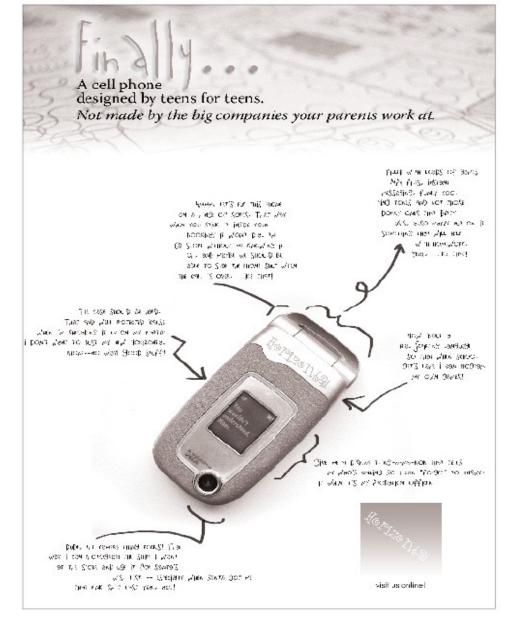
False Cause | Arguments that use any sort of weak causal connection as the basis of an argument.



Bifurcation



Ad Hominem Circumstantial



Straw Man Fallacy

than a few homeour bath-ment jokes about snot that sudged were furny I can't recommend that sudged were furny I can't recommend that film. Also, if the producers had hought one less our of enfire they could have put that savings our of the film's budget which sorely accided it. I into the film's budget which sorely accided it. I nother film's budget which sorely accided it.

The South Street bridge is making news again. this week. Ever since the bridge was weak. ened in the winer 2003 ice-flow, the bridge has been an area of patrical tension. Mayor Jones commented. The South Street bridge needs to be rebuilt. It's as simple as that. With the traffic congestion in and around the city, this project can not be ignored any longer. The mayor continued with. "All this talk about what color the new bridge should be after it's built - I Jon't care. There are better people out there than me to determine more aesthetic concerns. I'm afined I'd just pick the wrong ocker and then get a truck load of mail on my desk. the next week telling me what I already know. The South Streetbridge project is slated to begin bet and cost the city el wruction

"...I don't care."

Mayor Jones



Isn't it time we had a mayor that DID care about the South Street bridge? After all, isn't your safety and the safety of all Bainbridge at stake here?

James R. Tublinsky

Mayoral Candidate 2005

A man who genuinely cares

Chronological Snobbery



THEY DON'T
BUILD 'FM
LIKE THEY
USED TO
ROCKPORT
RADIOS

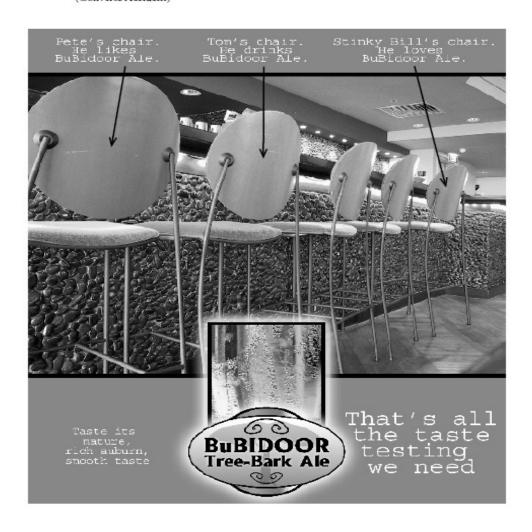
HIE WARMILLOF
RADIO RETURNS

Hasty Generalization

FALLACIES OF PRESUMPTION | Arguments that make unwise assumptions about either the data or the nature of reasonable argument.

Fallacies of Induction | Arguments that misuse empirical data or don't follow proper methods of inductive reasoning.

Hasty Generalization | Arguments that make a generalization on the basis of too few examples. (Converse Accident)



Tu Quoque



Ad Hominem Circumstantial

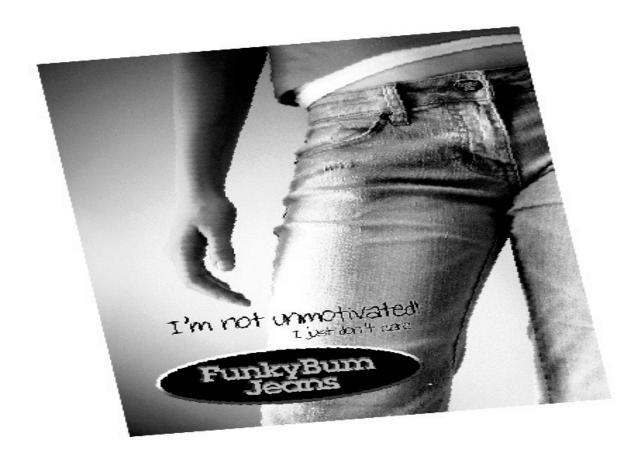
FALLACIES OF RELEVANCE | Arguments that are really distractions from the main point.

Ad Fontem Arguments | Arguments that distract by focusing the attention on an opponent. (Arguments against the source)

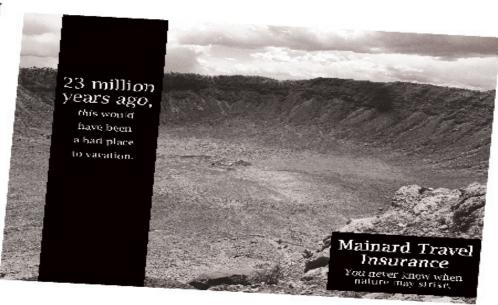
Ad Hominem Circumstantial | Ad hominem arguments that try to discredit an opponent because of his situation.

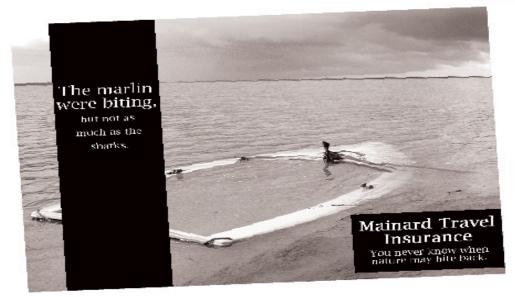


Distinction without a difference



Appeal to Fear







Begging the Question

FALLACIES OF PRESUMPTION | Arguments that make unwise assumptions about either the data or the nature of reasonable argument.

Fallacies of Presupposition | Arguments that contain "hidden assumptions" that make them unreasonable.

Begging the Question | An argument that contains an important, hidden, and unjustified assumption.

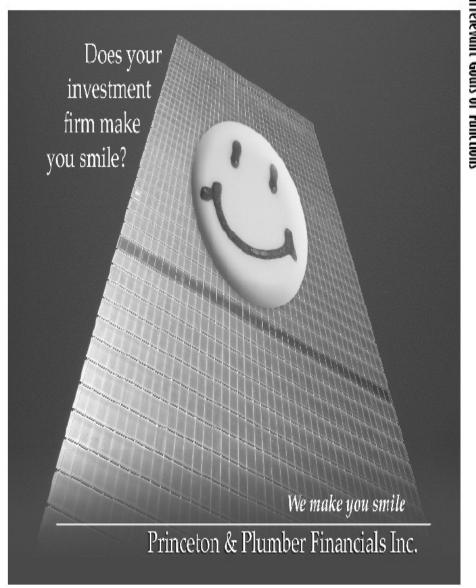


Appeal to Ignorance



Composition







Old equipment won't provide a new education

Each of our students receive a brand new wirelesss GeniusPhone, iComputer, SmartBook, and GPS!

Au Courant Prep School

At *Au Courant Prep School*, everything is new and shiny! Only the latest, greatest, and most progressive materials will give your child the best education.



The artist dream team!

Many

Portraiture Studio



"Johnny came out looking

"Johnny came out looking

"The artists... are... creative"

"Everyone talked about my portrait!"

Bath & Shower makes the best products for your skin-care needs.

Aloe-fresh bar soap, then you'll like our Aloe-fresh shower gel, body butter, hydrating face wash, exfoliating face wash, day creme, facial serum, night cream, baby oil, toner, body spray, deodorant, shave gel, and sunscreen!

Do you ever get the feeling that your fund manager doesn't care?

WHM Mutual Fund always offers higher interest.



Whether for flies...



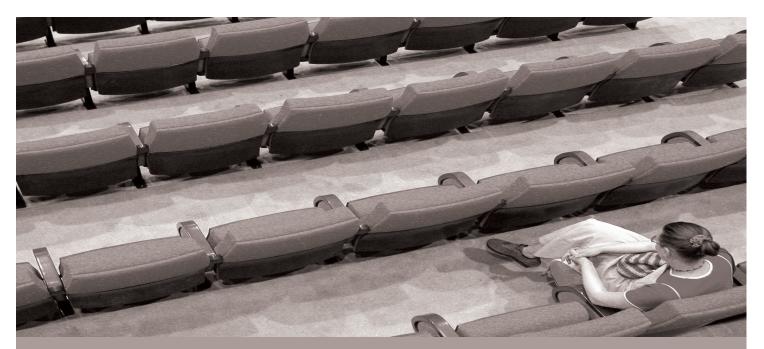


or for bubblegum...

Berkmeisters ergonomic sandals make great swatters!

Berkmeisters
ergonomic sandais
Good for swatting





You've chewed their gum.
And did you get more friends?



The friendly gum!



Republicans favor big business. Democrats favor big government.

The **Cumberland County Independents League** wants a moderate-sized government supporting average-sized businesses... just what the county needs!

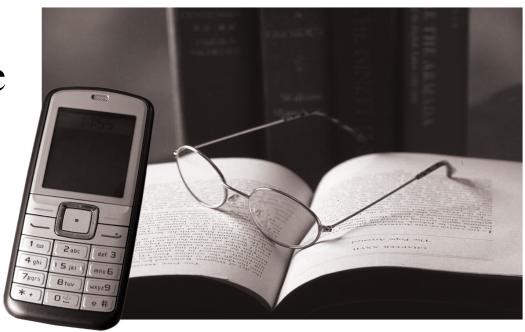
Sponsored by the Cumberland County Independents League

Introducing the new

GeniusPhone

Now get a phone that automatically comes equipped with a global positioning system, a searchable encyclopedia, a dictionary of Greek and Latin roots, a personal language translator, historical timelines of the 5 largest countries, a graphing calculator, a combinatorics quiz game, and tetris!

Be the smartest person you know!



Can you identify the fallacies in this news report below? Note the the underlined sections and try to identify the fallacy that might be present.

Fox News Report, Feb. 27, 2013

Republicans to Obama: Quit campaigning, spending cuts 'are going to happen'

President Obama took his campaign to warn about looming spending cuts on the road Tuesday, using a Virginia shipyard as a backdrop to his message that Congress' failure to act will cost jobs.

But back in Washington, Republicans said the president's theatrics aren't doing any good -- and that the American people would be better served if Obama worked with Congress on a viable alternative.

"The spending cuts are going to happen and the option now for the president is, do you want to work for a different way for these savings to be achieved?" Sen. Roy Blunt, R-Mo., said. "And that's very doable." Senate Republican Leader Mitch McConnell, R-Ky., said he'd be "happy" to give the Obama administration "more flexibility" to spread around the \$85 billion in cuts how they'd like.

That idea is being pushed as part of a Republican-backed bill expected to get a vote later in the week, along with a Democratic bill.

But after months of bickering over the automatic cuts, the two sides are still far apart, with the cuts set to take effect Friday.

Senate Democratic Leader Harry Reid downplayed the idea that giving the administration more flexibility would help. The White House has also brushed off that option. Democrats generally say the cuts are too steep, and should be replaced with a package that blends targeted cuts with tax increases.

Senior administration officials, in a briefing with reporters late Tuesday, acknowledged that the sequester's impact would not necessarily be felt immediately. But they expressed confidence that, as the cuts take effect over a period of weeks, Republicans would start to bend on their resistance to raising more revenue. House Republican aides called that characterization "wrong," suggesting the White House has very little leverage because Republicans generally want spending cuts. Obama visited Virginia's largest industrial employer, Newport News Shipbuilding, to stress that the spending cuts would idle military resources like naval aircraft carriers. The president continued to warn about the impact of the cuts, saying that for the Newport News and Norfolk areas ships might not get built as a result. "And that hurts your bottom line, that hurts this community," Obama said. The president said he's not interested in <u>playing the "blame game"</u> but merely wants to solve the problem with Congress. "These cuts are wrong," he said, calling this <u>the "dumb way" to cut the budget</u>.

Echoing the president later in the day, Pentagon spokesman George Little said "this is stupid."

The White House has warned that the cuts could affect everything from commercial flights to classrooms to meat inspections. The cuts would slash domestic and defense spending, leading to furloughs for hundreds of thousands of workers.

Despite the grim outlook, both sides seem more focused on blaming each other than coming up with a deal. Obama urged Congress to compromise, but the last known conversation between Obama and Republican leaders was last week and there have been no in-person meetings between the parties this year.

As Obama highlighted the impact of looming spending cuts with his trip to a Virginia military community Tuesday, Republicans accused the president of using America's service members as <u>a campaign "prop."</u>

McConnell claimed the president was trying to sow a sense of chaos.

"Personally, I don't believe the world will end if the president's sequester takes effect," McConnell said. "But our country would be much better served if the Democrats who run Washington would get off the campaign trail and work with us to trim the budget in a more rational way."

McConnell suggested that despite Obama's warnings of "utter chaos," the government should be able to cut 2 percent of its budget "without inviting disaster."

Frustration showing through, House Speaker John Boehner also used salty language as he urged the Senate to act, arguing the House has passed two bills already to deal with the so-called sequester.

"We should not have to move a third bill before the Senate gets off their ass," he said.

On the other side, Reid said his party wants to work with Republicans on a "balanced" plan.

"But my Republican colleagues are standing in the way of a solution. They only want cuts and more cuts. They are willing to sacrifice three-quarters of a million jobs rather than ask multi-millionaires to pay a penny more," Reid said. The Senate is expected to hold votes on a Democratic and a Republican plan on Thursday. But with the \$85 billion in cuts set to start taking effect Friday, hope is diminishing that any compromise could be reached before then. Some congressional leaders have recently indicated their willingness to let the cuts take effect and stay in place for weeks, if not longer. There is some breathing room for political settlement even after Friday's deadline comes and goes: Provisions are in place to preserve the most crucial services and furloughs of federal workers are at least a month away. McConnell claimed the president has presented the country with two options: "Armageddon or a tax hike."

Echoing comments made by House Republicans a day earlier, he said this is a "false choice."