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• Explosion: $A, \neg A \vdash B$

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• Explosion: $A, \neg A \vdash B$

A consequence relation is *paraconsistent* if Explosion is *not* valid.

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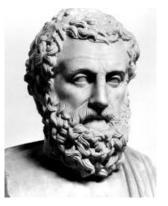
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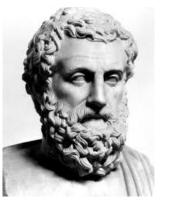
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"How is it, Master Gotama, does Master Gotama hold the view: 'After death a Tathāgata exists: only this is true, anything else is wrong'?"

"Vaccha, I do not hold the view: 'After death a Tathāgata exists: only this is true, anything else is wrong.'"

"How then, does Master Gotama hold the view: 'After death a Tathāgata does not exist: only this is true, anything else is wrong'?"

"Vaccha, I do not hold the view: 'After death a Tathāgata does not exist: only this is true, anything else is wrong.'"

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"How is it, Master Gotama, does Master Gotama hold the view: 'After death a Tathāgata both exists and does not exist: only this is true, anything else is wrong.'?"

"Vaccha, I do not hold the view: 'After death a Tathāgata both exists and does not exist: only this is true, anything else is wrong.' " "How then, does

Master Gotama hold the view: 'After death a Tathāgata neither exists nor does not exist: only this is true, anything else is wrong'?"

"Vaccha, I do not hold the view: 'After death a Tathagata neither exists nor does not exist: only this is true, anything else is wrong.'"

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Truth values:

- t (just true)
- f (just false)
- b (both)
- *n* (neither)

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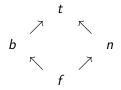
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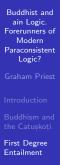
Truth values:

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- b (both)
- *n* (neither)



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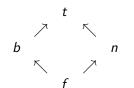


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• $A \wedge B$ is true if A is true and B is true

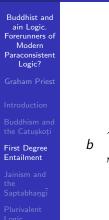


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A ∧ B is false if A is false or B is false

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- A ∧ B is true if A is true and B is true
 A ∧ B is false if A is false or B is false
- If A is t and B is b, $A \wedge B$ is b

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• $A \land B$ is false if A is false or B is false

• $A \wedge B$ is true if A is true and B is true

If A is t and B is b, $A \land B$ is b If A is b and B is n, $A \land B$ is n

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- $A \land B$ is true if A is true and B is true • $A \land B$ is false if A is false or B is false
- If A is t and B is b, $A \wedge B$ is b
- If A is b and B is $n, A \wedge B$ is n
- The value of *A* ∧ *B* is the *glb* of the values of *A* and *B*

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- $A \land B$ is true if A is true and B is true • $A \land B$ is false if A is false or B is false
- If A is t and B is b, $A \wedge B$ is b
- If A is b and B is $n, A \wedge B$ is n
- The value of *A* ∧ *B* is the *glb* of the values of *A* and *B*
- The value of *A* ∨ *B* is the *lub* of the values of *A* and *B*

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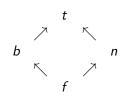
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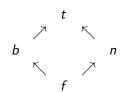
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- $\neg A$ is true if A is false
- $\neg A$ is false if A is true

If A is t, $\neg A$ is f; and vice versa

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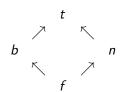
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- $\neg A$ is true if A is false
- $\neg A$ is false if A is true
- If A is t, $\neg A$ is f; and vice versa
- If A is b, $\neg A$ is b.

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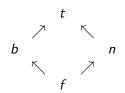
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- $\neg A$ is true if A is false
- $\neg A$ is false if A is true
- If A is t, $\neg A$ is f; and vice versa
- If A is b, $\neg A$ is b.
- If A is $n, \neg A$ is n.

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 An inference is valid if whenever the premises are true (i.e., t or b) so is the conclusion.

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An inference is valid if whenever the premises are true (i.e., t or b) so is the conclusion.

 $\neg \neg A \models A$ $A \models \neg \neg A$

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 An inference is valid if whenever the premises are true (i.e., t or b) so is the conclusion.

 $\blacksquare \neg \neg A \models A$

• $A \models \neg \neg A$

 $\blacksquare A, \neg A \not\models B$

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 An inference is valid if whenever the premises are true (i.e., t or b) so is the conclusion.

 $\blacksquare \neg \neg A \models A$

- $A \models \neg \neg A$
- $\bullet A, \neg A \not\models B$
- A is b, B is f

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Syāt

Truth values:

- t (just true)
- f (just false)
- i (?)

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Syāt

Truth values:

t (just true)
 f (just false)
 i (?)

■ $2^3 - 1 = 7$

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The seven predicate theory consists in the use of seven claims about sentences, each preceded by 'arguably' or 'conditionally' (syāt) [all] concerning a single object and its particular properties, composed of assertions and denials, either simultaneously or successively, and without contradiction. They are as follows:

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(1) Arguably, it (i.e., some object) exists. The first predicate pertains to an assertion.

(2) Arguably, it does not exist. The second predicate pertains to a denial.

(3) Arguably, it exists; arguably it does not exist. The third predicate pertains to successive assertion and denial.

(4) Arguably, it is non-assertable. The fourth predicate pertains to a simultaneous assertion and denial.

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(5) Arguably, it exists; arguably it is non-assertable. The fifth predicate pertains to an assertion and a simultaneous assertion and denial.

(6) Arguably, it does not exist; arguably it is non-assertable. The sixth predicate pertains to a denial and a simultaneous assertion and denial.

(7) Arguably, it exists; arguably it doesn't exist; arguably it is non-assertable. The seventh predicate pertains to a successive assertion and denial and a simultaneous assertion and denial.

Vādideva Sūri (c. 12th Century)

(4月) (4日) (4日)

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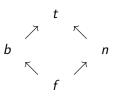
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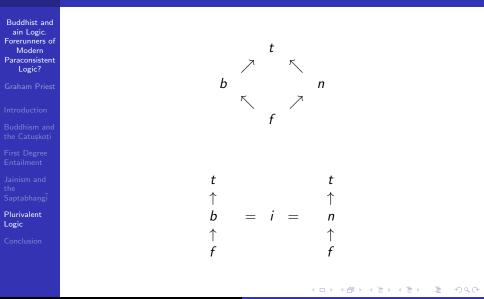
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• To compute the values of $A \wedge B$, you combine all the values of A and B

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- To compute the values of $A \wedge B$, you combine all the values of A and B
- Suppose that A has the values t and f, and B has the values t and i

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- To compute the values of $A \wedge B$, you combine all the values of A and B
- Suppose that A has the values t and f, and B has the values t and i

• $A \wedge B$ has the values, t, i, f.

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- To compute the values of $A \wedge B$, you combine all the values of A and B
- Suppose that A has the values t and f, and B has the values t and i

• $A \wedge B$ has the values, t, i, f.

Similarly for $A \lor B$

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■ Tho compute the vales of ¬*A*, you negate all the values for *A*

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- Tho compute the vales of ¬*A*, you negate all the values for *A*
- Suppose that A has the values t and i:

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- Tho compute the vales of ¬*A*, you negate all the values for *A*
 - Suppose that A has the values t and i:

$$\begin{array}{c|cc}
A & t & i \\
\hline
\neg A & f & i
\end{array}$$

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- Tho compute the vales of ¬*A*, you negate all the values for *A*
- Suppose that A has the values t and i:

$$\begin{array}{c|cc}
A & t & i \\
\hline
\neg A & f & i
\end{array}$$

• $\neg A$ has the values f and i.

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An inference is valid if whenever the premises have the value t or b so does the conclusion.

Whatever i is, the logic is paraconsistent

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An inference is valid if whenever the premises have the value t or b so does the conclusion.

• Whatever *i* is, the logic is paraconsistent

Let A have the values t and f.

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• Whatever *i* is, the logic is paraconsistent

- Let A have the values t and f.
- Then $\neg A$ has the values f and t.

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• Whatever *i* is, the logic is paraconsistent

- Let A have the values t and f.
- Then $\neg A$ has the values f and t.
- Let *B* have just the value *f*.

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An inference is valid if whenever the premises have the value t or b so does the conclusion.

• Whatever *i* is, the logic is paraconsistent

- Let A have the values t and f.
- Then $\neg A$ has the values f and t.
- Let *B* have just the value *f*.
- $A, \neg A \not\models B$.

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