

Main Connectives

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6:02 PM

Main Connective

- Determines what kind of sentence a sentence is.
- Determines, in the end, the Truth Value of a sentence.

Definition

- If P is atomic, it has no main connective.
- If P is the negation of another sentence, P 's main connective is \sim .
- If P is $Q \& R$, $Q \vee R$, $Q \supset R$, $Q \equiv R$, then that connective is the main connective.

Ex.

$$\neg ((D \equiv F) \vee M)$$

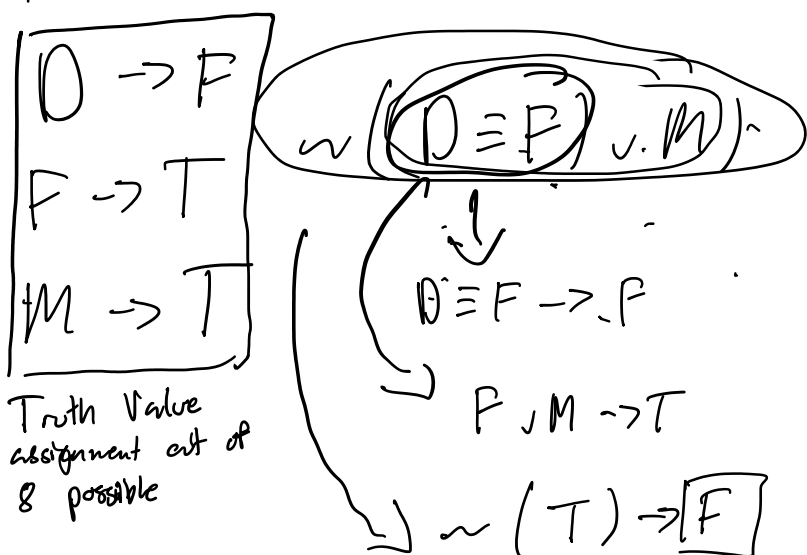
F not D and only if F or M

M

$((D \equiv F) \vee M) \rightarrow$ Main connective is disjunction.

$(D \equiv F) \rightarrow$ Main connective is biconditional

Example with TV assignment



Given these truth-values, this sentence as a whole is false.

Main connective is negation

• Truth-value is dependent on the input and output of the \neg .