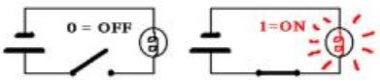
Massachusetts Institute of Technology (MIT)

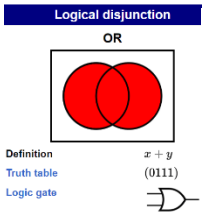
Lecture by Pr. Bob Gallagher
Boole (1815-1864) & **Shannon** (1916-2001)



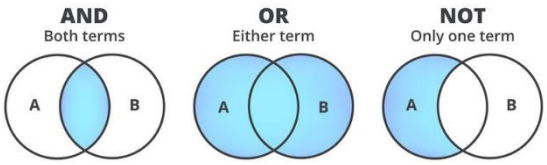
Logical addition (disjunction)

A	B	F=A∨B
0	0	0
0	1	1
1	0	1
1	1	1

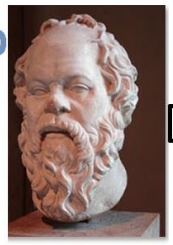
A	B	$A \vee B$
True	True	True
True	False	True
False	True	True
False	False	True



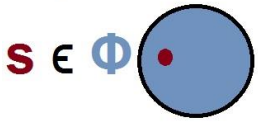
BOOLEAN LOGIC

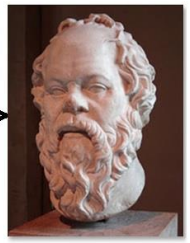


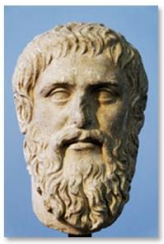
Good logic

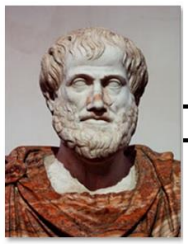

Socrates

Socrates was a philosopher

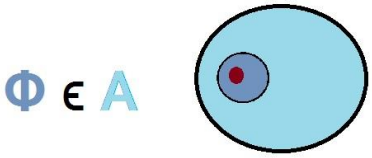



Socrates

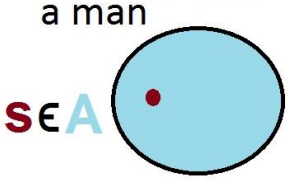

Plato


Aristotle

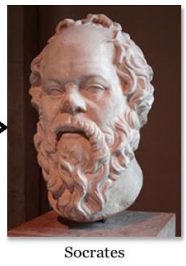
philosophers are men

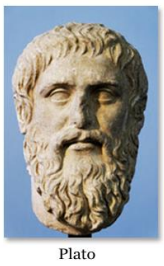


Socrates was a man



Bad logic


Socrates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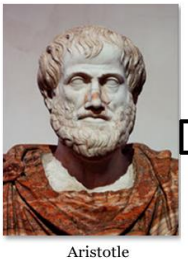
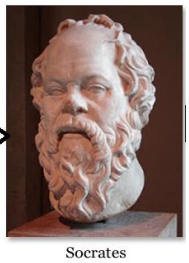
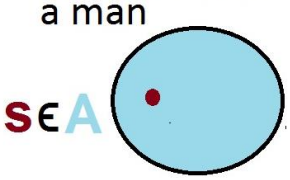
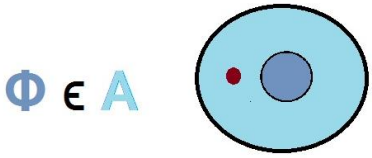

Aristotle


Socrates

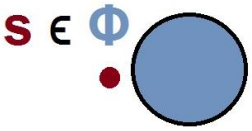
Socrates was a man

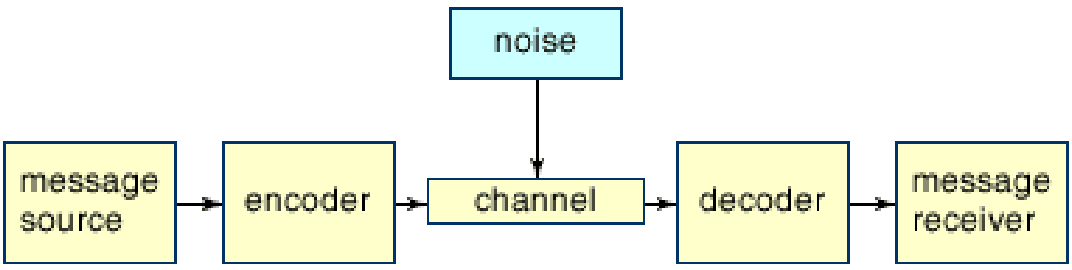


philosophers are men



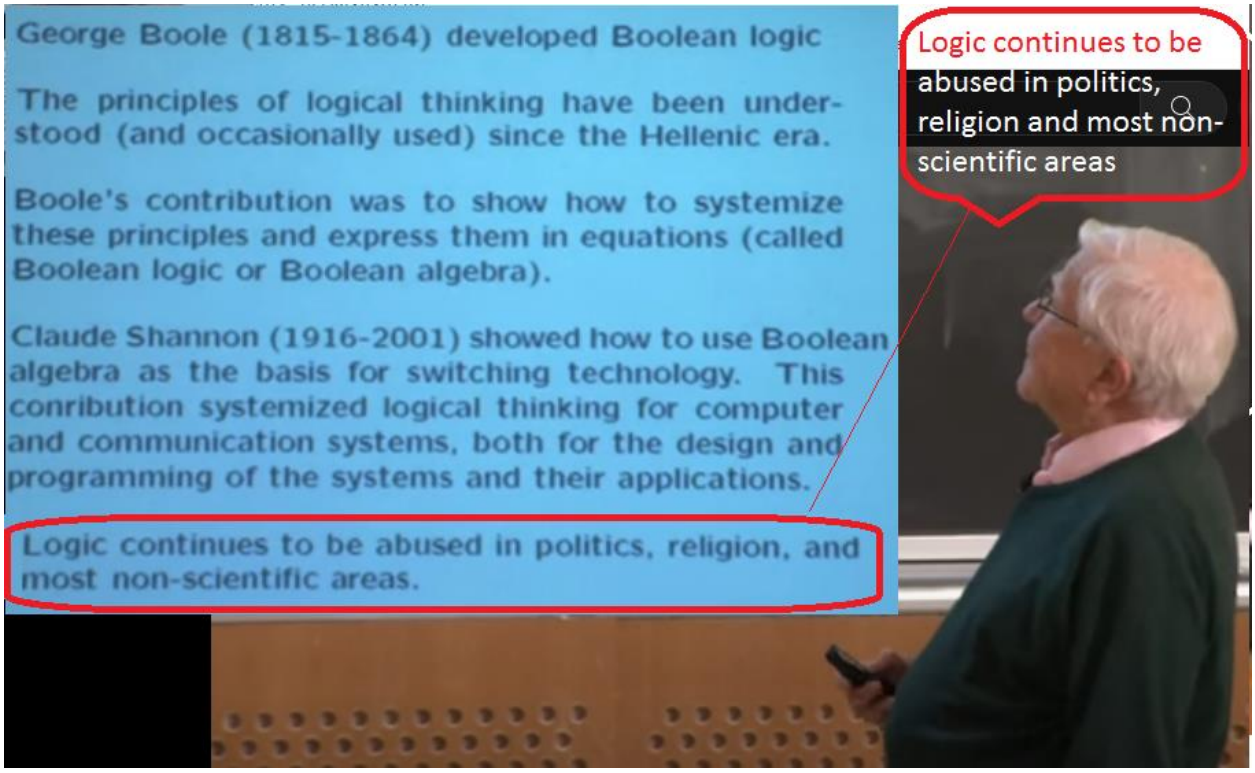
Socrates was a philosopher

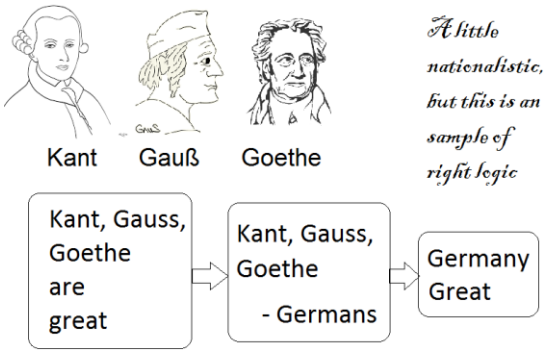




Resume of Lecture by Pr. Bob Gallagher from MIT

Massachusetts Institute of Technology (MIT)





Bad logic (abuse of logic)