## Logical operators full truth table

Input	Output					
	Conjunction	Exclusive or	Disjunction	Conditional	Biconditional	
p q	$p \wedge q$	$p\oplus q$	$p \lor q$	$p \to q$	$p \leftrightarrow q$	
T $T$	T	F	T	T	T	
T F	F	T	T	F	F	
F $T$	F	T	T	T	F	
F $F$	F	F	F	T	T	
	" $p$ and $q$ "	"p xor q"	" $p$ or $q$ "	"if $p$ then $q$ "	" $p$ if and only if $q$ "	

## Logical operators truth tables

Truth tables: Input-output tables where we use T for 1 and F for 0.

Input		Output				
			Exclusive or	Disjunction		
p	q	$p \wedge q$	$p\oplus q$	$p \lor q$		
$\overline{T}$	T	T	F	T		
T	F	F	T	T		
F	T	F	T	T		
F	F	F	F	F		
		AND	XOR-	DOR)—		

Input	Output Negation		
	Negation		
p	$\neg p$		
$\overline{T}$	F		
F	T		
	NOT O		