## 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				
		Conjunction	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
p	$\neg p$
T	F
F	T
	—NOT