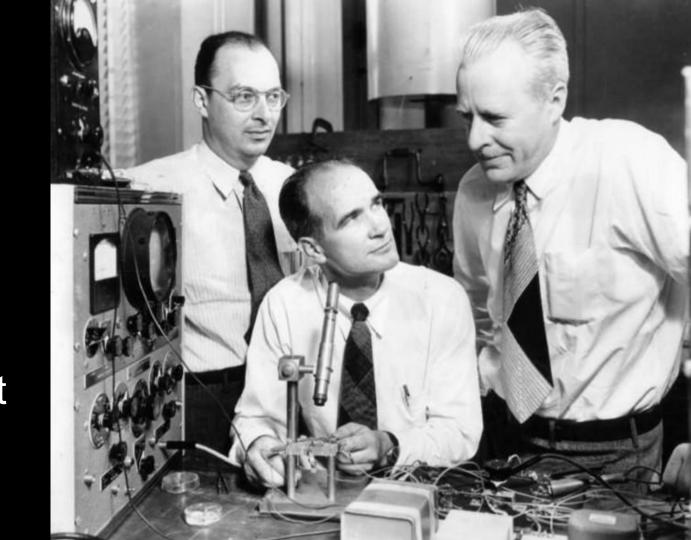
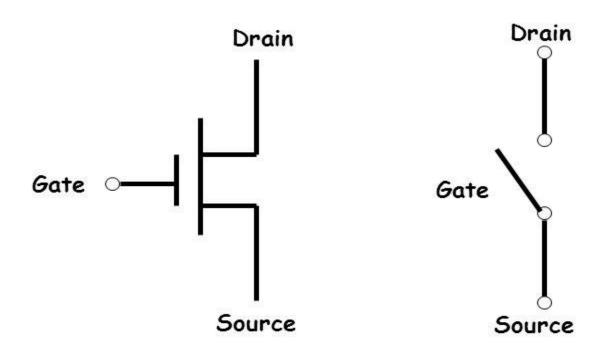


William Shockley, Walter Brattain and John Bardin made the first transistor in 1947

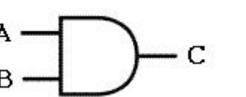


Transistor as a Switch

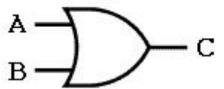


 The voltage on the gate decides if the switch will be open (i.e., "OFF") or closed (i.e., "ON")

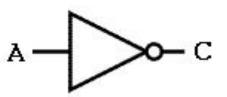




().	R	
	-		







Inputs		Output
A	В	C

A	В	C
0	0	0
0	1	0
1	0	0
1	1	1

Inp	outs	Output
A	В	C
0	0	0
0	1	1
1	0	1
1	1	1

Input	Output
A	C
0	1
1	0



As computer technology evolved, the hardware became smaller. Highly efficient transistors eventually replaced vacuum tubes.

