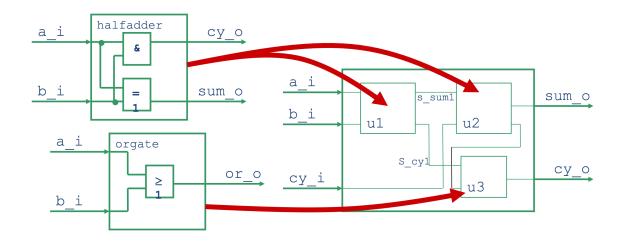
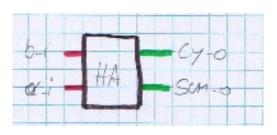
## Fulladder, Volladdierer



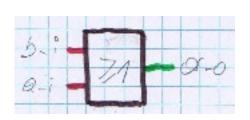
## Half Adder, Halbaddierer



a_i	b_i	sum_o	су_о	
0	0	0	0	
0	1	0	1	
1	0	0	1	
1	1	1	0	

sum\_o = a\_i XOR b\_i cy\_o = a\_i AND b\_i

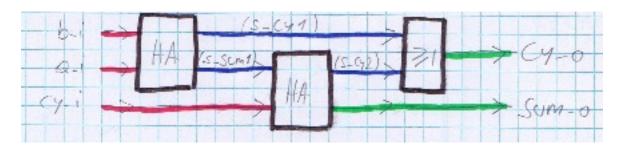
## Orgate, Oder-Gatter



a_i	b_i	a_o
0	0	0
0	1	1
1	0	1
1	1	1

 $a_o = a_i OR b_i$ 

## Aufbau Volladdierer



#	cy_i	b_i	a_i	cy_o	sum_o
0	0	0	0	0	0
1	0	0	1	0	1
2	0	1	0	0	1
3	0	1	1	1	0
4	1	0	0	0	1
5	1	0	1	1	0
6	1	1	0	1	0
7	1	1	1	1	1

sum\_o = (b\_i XOR a\_i) XOR cy\_i cy\_o = (b\_i AND a\_i) OR (sum\_1 AND cy\_i)