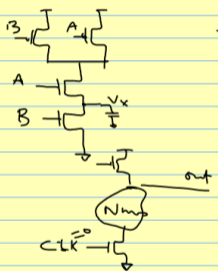
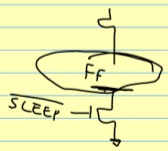


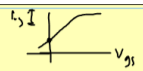
Stacking Effect (leakage)



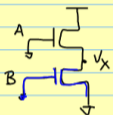
A	B	out
0	0	} nmos leakage
0	1	
1	0	
1	1	



Stacking Effect



$$I_{leak} \propto W e^{\frac{V_{gs} - V_t}{m k T / q}} \left(1 - e^{-\frac{V_{ds}}{k T / q}} \right)$$



$V_x \uparrow \quad V_{gs} \downarrow \quad V_{ds} \downarrow \quad (\Rightarrow \text{DIBL } V_t \uparrow)$

RBB $\Rightarrow V_b \uparrow$

80-90% reduction I_{leak}

leakage reduction by stacking

