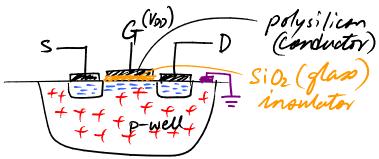


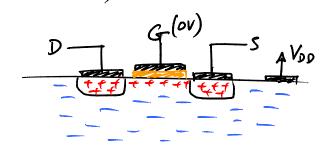
two variants (apposites):

- 1. NMOS n-channel MOSFET (metal-onide semiconductor
- field-effect transistor) 2. PMOS p-channel MOSFET

$$G = 1 (\sim 3v)$$
 S \longrightarrow D
 $G = 0 (\sim 0v)$ S \longrightarrow D

$$G = O(Gnd)$$
 D — S
 $G = I(VoD)$ D — S



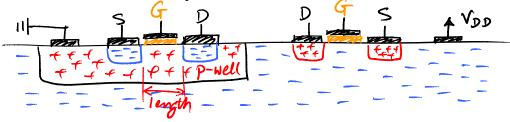


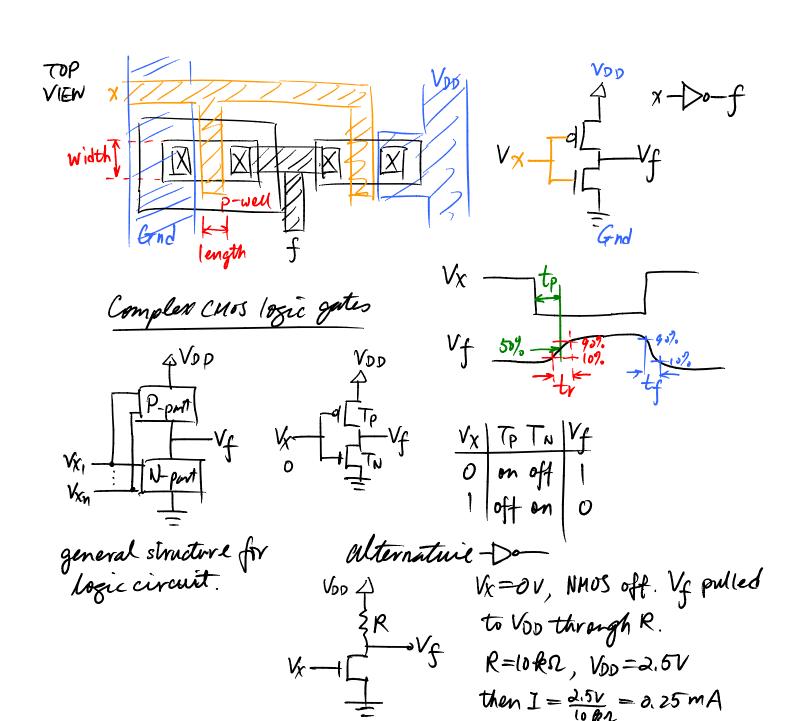
turning on the NMOS transistor

turning on PMOS transister

to allow connection between D and S.

CMOS - complementary MOS (we always use an equal number of NMOS and PMOS transistors)





Ray 10 million transitions on a chip. that is 10 x 0.25 mA = 2500 A

