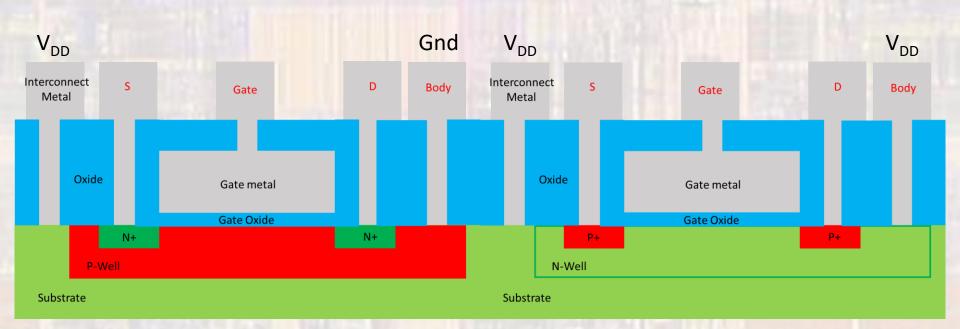
Last updated 7/12/23

- Digital Planer CMOS Structure
 - Dominant until about 2015
 - Still used for older technologies
 - Still used for analog technologies



Implant a P-well into an N-Wafer

N-Channel

P-Si

N-Wafer

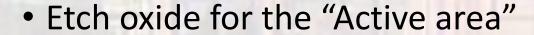
Deposit thick oxide

N-Channel

Oxide (SiO₂)

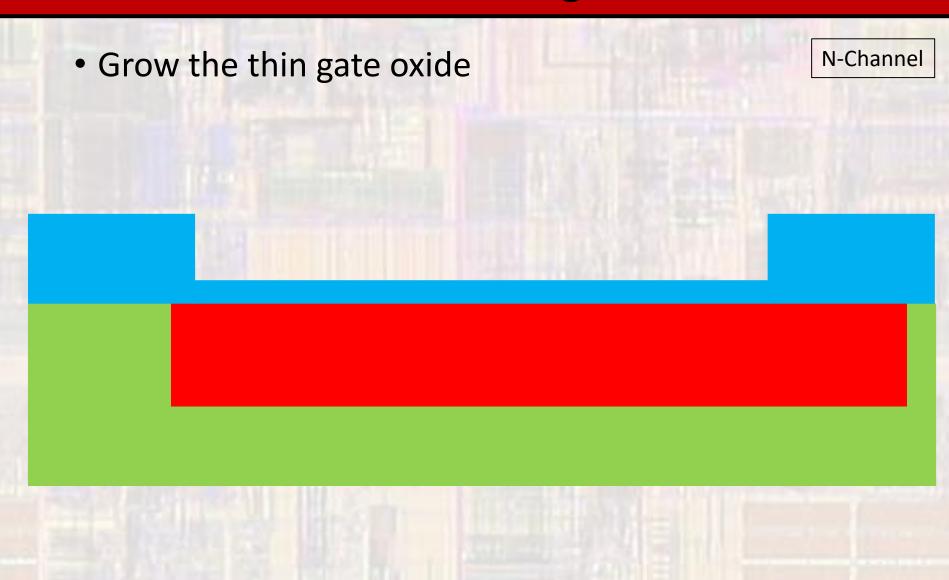
P-Si

N-Wafer



N-Channel

Source + drain + gate

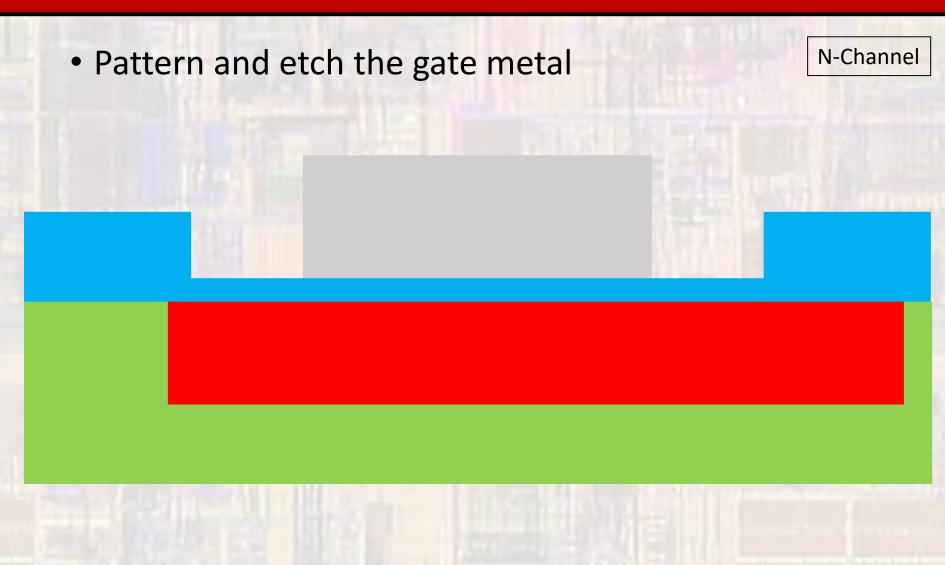


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- Deposit gate metal
 - Aluminum or Poly-Silicon

N-Channel

Metal

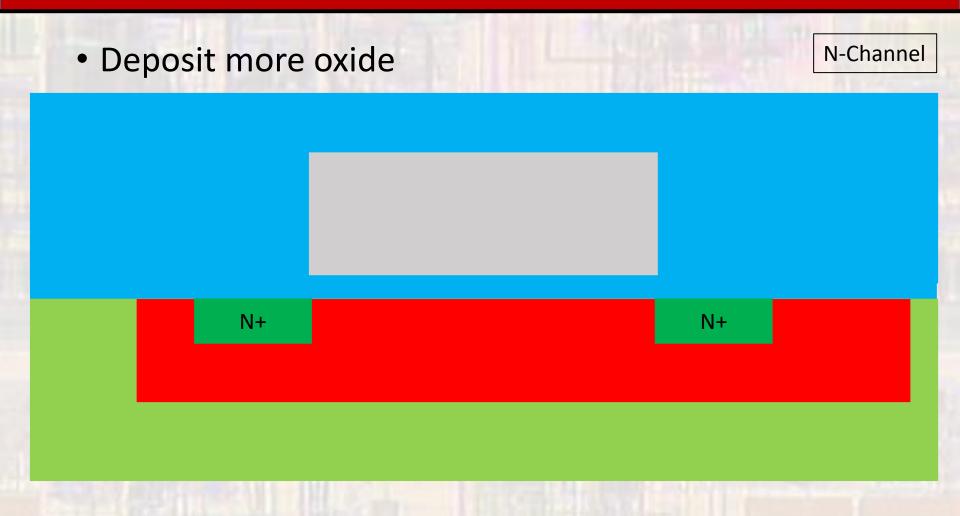


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Implant Phosphorus (N+)

- **N-Channel**
- N+ regions form where only thin oxide is present

N+ N+



10

