IEEE's Hands on Practical Electronics (HOPE)

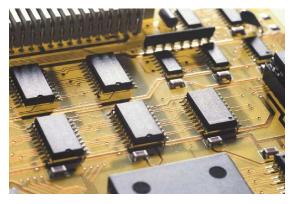
Week 10: Fabrication

Facts:

Circuits today are very small (65 nm gate length).

Smaller is better because:

- Cheaper
- Faster
- Portable
- Consume less energy



Process of making a chip:

- 1. Make a schematic
- 2. Make a mask of that schematic
- 3. Use UV light to etch the circuit on the die
- 4. Shine ions like Boron, Arsenic or Phosphorous to dope the silicon.
- 5. Buy a factory
- 6. Keep it clean
- 7. Watch the money roll in

There are many design tools that can be used which make it easier to design your circuit.

