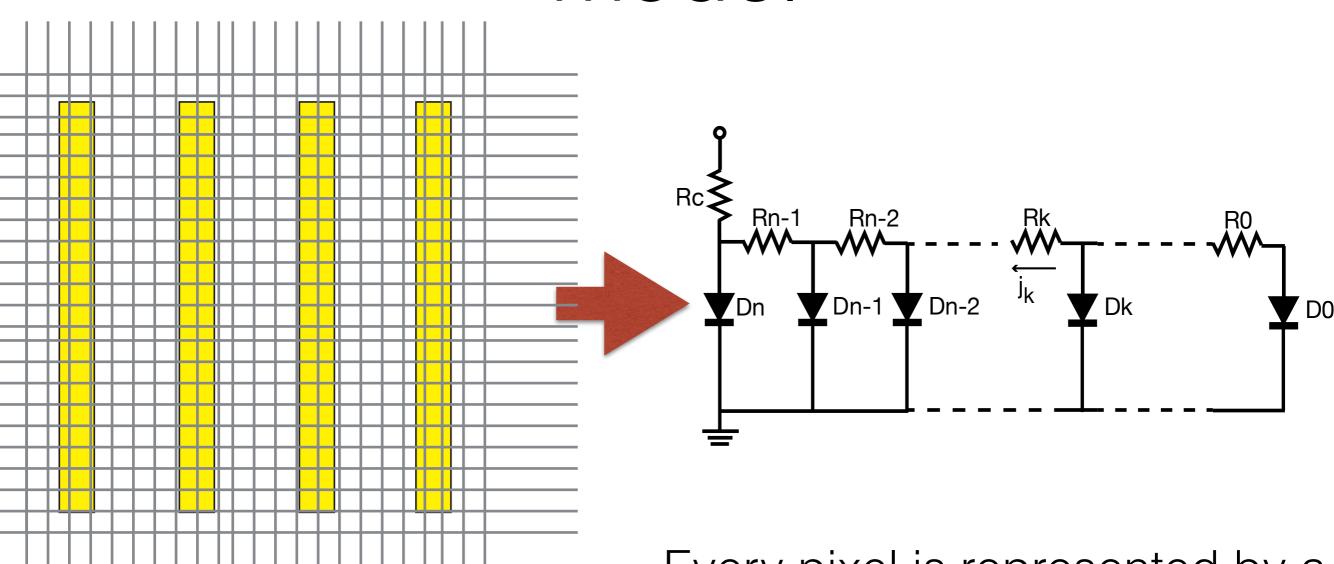
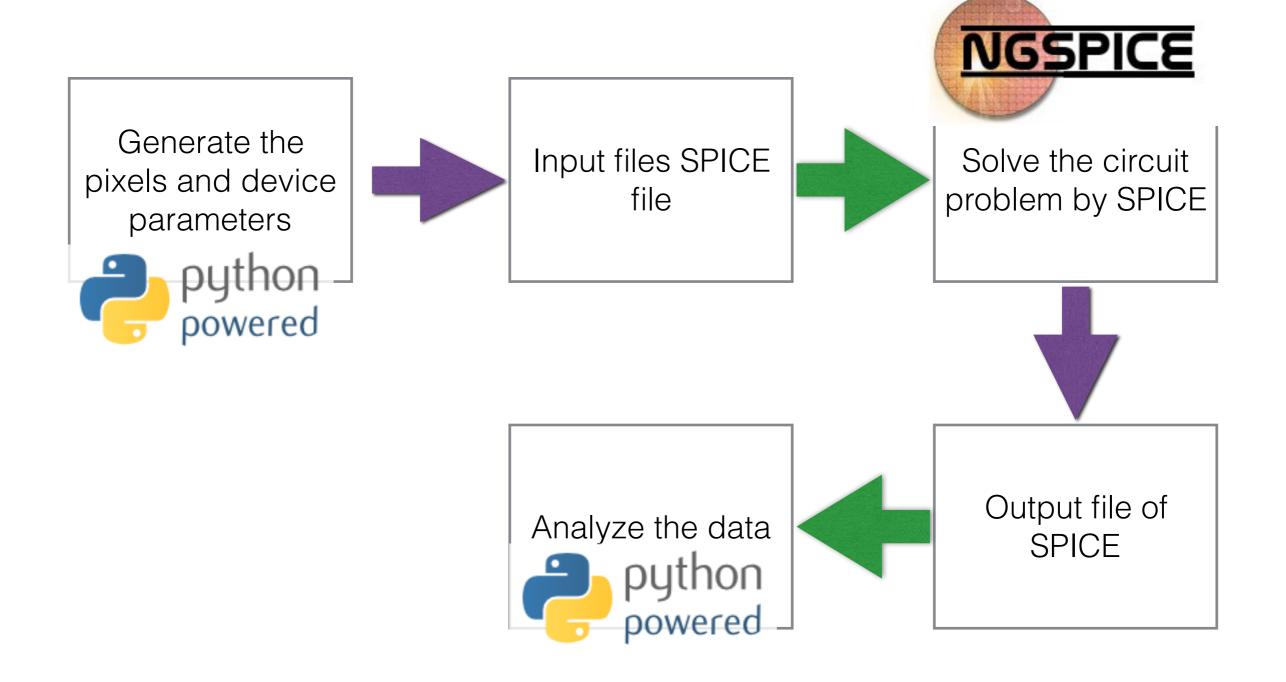
## Equivalent circuit network model



Every pixel is represented by a diode and a sheet resistor

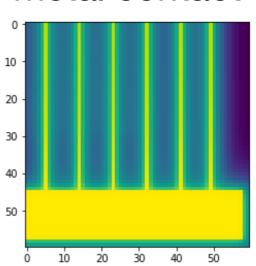
Cut the solar cell into pixels

## Flow of simulation



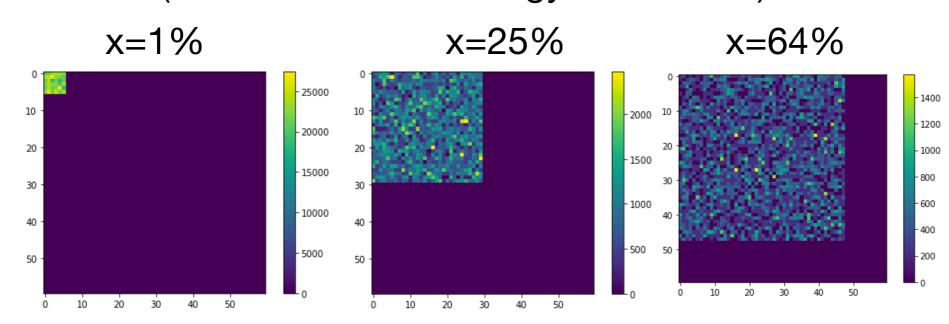
## Example



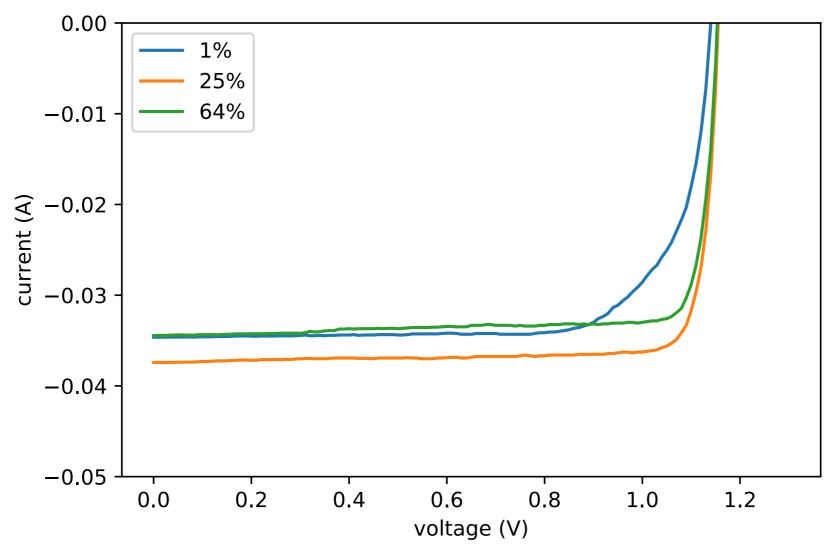


The solar cell is 1J GaAs

illumination enclosed in x% of the area (total illumination energy is constant)



## Simulated result



- 1. Difference in Isc is caused by the ratio of metal coverage
- 2. Nonuniform illumination decreases the fill factor