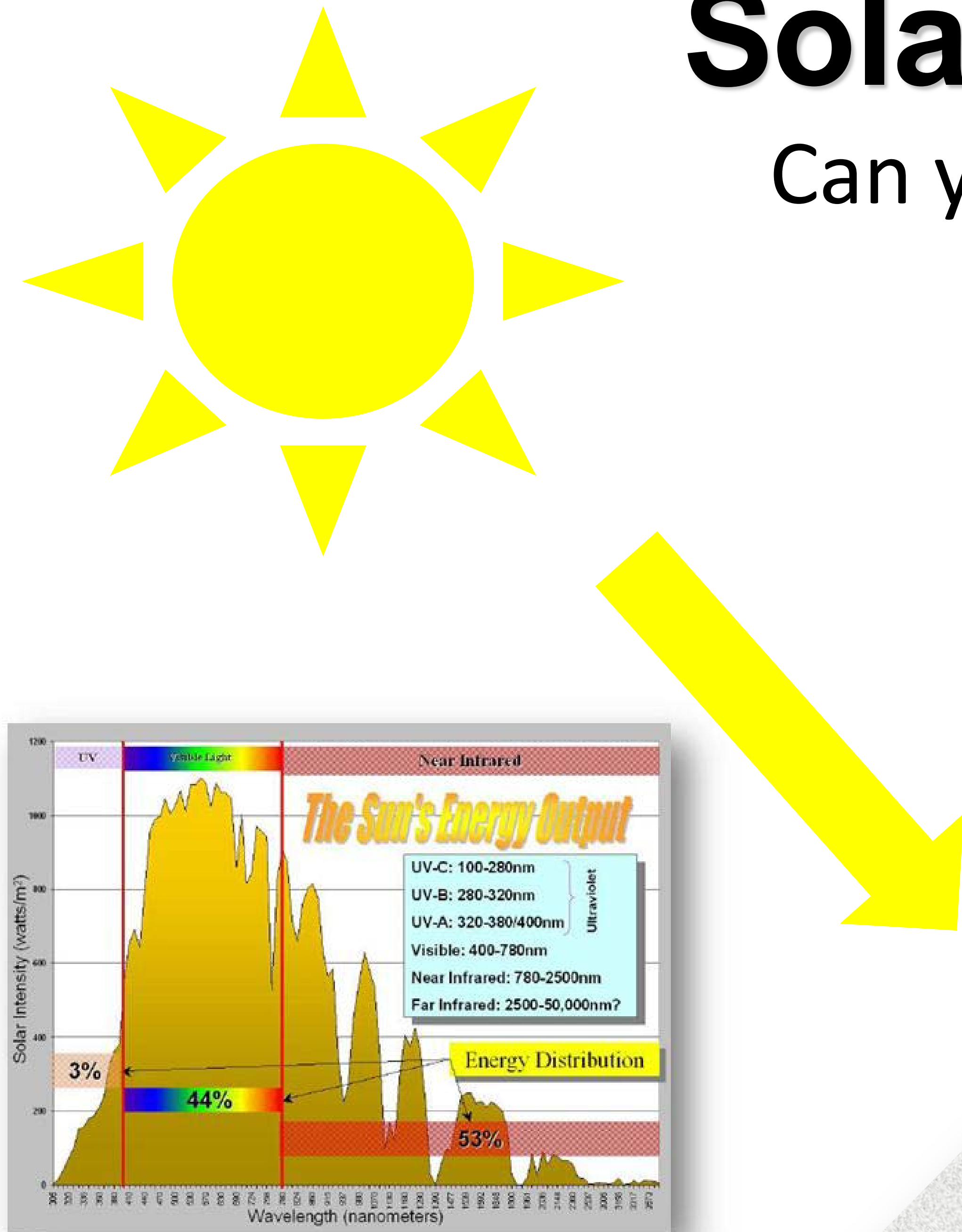


Solar Cell – Photon Toss

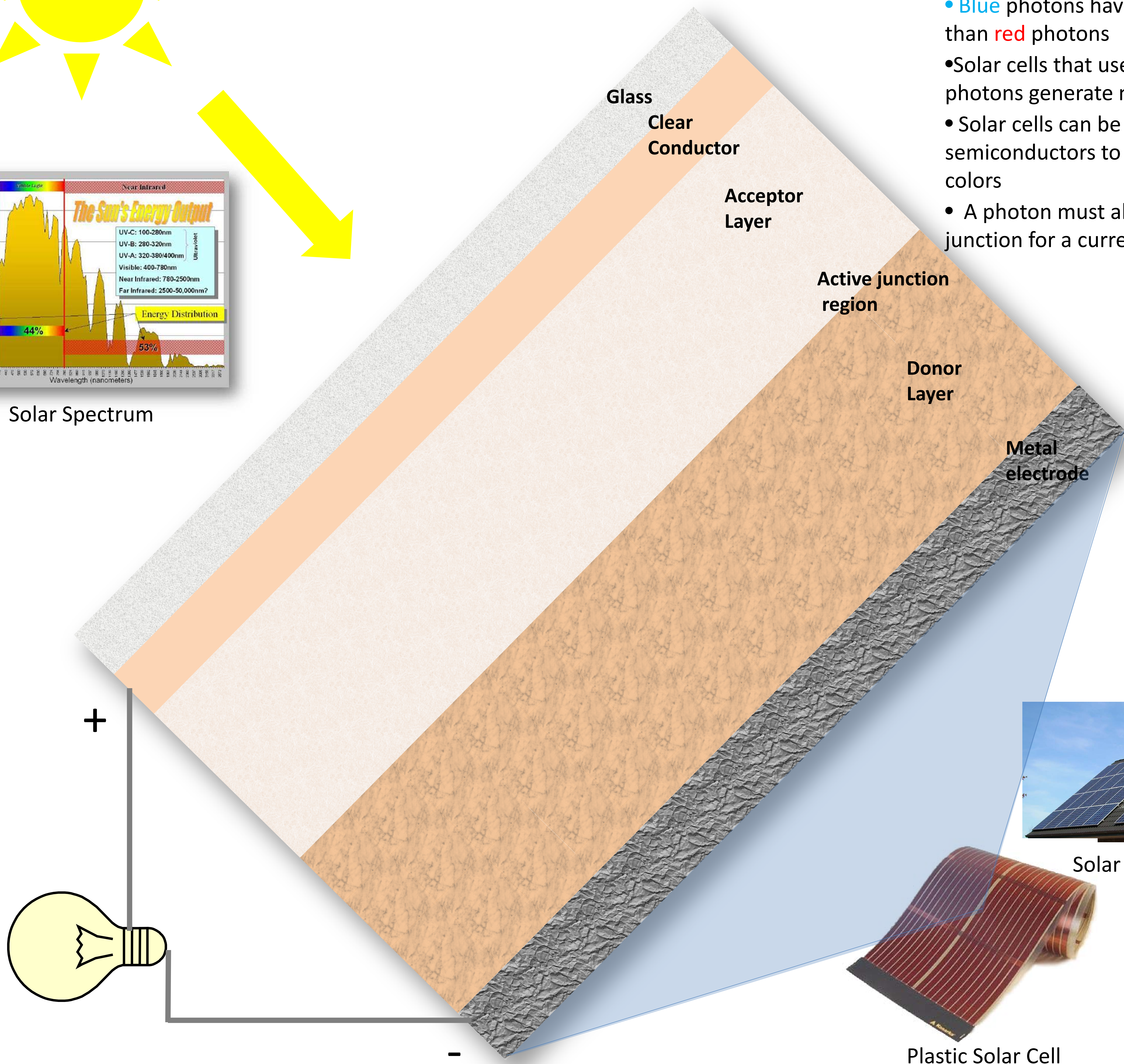
Can you make the electrons flow?

Main Ideas

- Sun light is made of many colors—some that we can't see
- Light comes in packets called “photons”
- Blue photons have more energy than red photons
- Solar cells that use more colors of photons generate more current
- Solar cells can be made of layers of semiconductors to harvest different colors
- A photon must be absorbed near the junction for a current to be generated



Solar Spectrum



Plastic Solar Cell

Solar Panels on Roof

Center for Materials and Devices for
Information Technology Research

• <http://stc-mditr.org> NSF STC DMR 0120967



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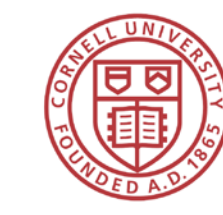


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