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Pay It Forward!!!

Start with what you know

- IASC International Astronomical Search Collaboration
- WISE Wide-field Infrared Survey Explorer
- WISE pinpoints location
- Bob Holmes, Charleston, IL, provides mulitple ground based images
- IASC assigns image sets



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Pay It Forward!!!

- Image Processing
 Astrometrica
- Online Resources
 - Minor Planet Center for Ephemeris
 - JPL Near Earth Program for orbit diagrams and known info
- Provide location to MPC to help better define their orbits and...

LWN Asteroid Hunters Saving the world!!!







Pay It Forward!!!

SOFIA IR materials

- Color Filters
 - Understand how eye works
 - Relate to use of filters for other wavelengths
- IR detectors
 - Digital cameras "see" IR
 - Solar cells collect IR
 - IR video camera new**
- Python Programming
 - Used to gather and analyze data from camera (HAWC)
 - Basic programming in Physics classroom



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Search – SOFIA Active Astronomy Links at – starsatyerkes.net









Mixing Colors of Light



Red, Green and Blue cones are each stimulated by certain frequencies.

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Our brain mixes colors to give us all the colors of the spectrum.

Gel Color Code

- Red shows in red, disappears in others
- Blue shows in blue, disappears in others
- Green shows in green, disappears in others
- White shows in all three gels

*our red works the best!



















Don't Listen to Mrs. Piper she's old school 500 600 700 Visible light Infrared Ultraviolet Ultra Infrared AC circuits AM violet Radar FM TV Gamma rays X-rays rays 10-3 107 109 1011 1013 1015 10 101 10















