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#!/usr/bin/env python3
# -*- coding: utf-8 -*-
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# Import numpy module
import numpy as np
import matplotlib.pyplot as plt
from astropy import units as u
# Function to read simple text files
def Read(filename,col_names,unpack_bool=True):
    # Use numpy's loadtxt function to read columns of text file
    data = np.genfromtxt(filename,delimiter=' ',names=True)
col1, col2, col3 = data[col_names[0]],data[col_names[1]],data[col_names[2]]
    return(col1,col2,col3)
# Function to read NASA Exoplanet Archive text files
def ReadNASA(filename, skip):
    # Read and return data of confirmed exoplanets from NASA Exoplanet Archive
    data = np.genfromtxt(filename,dtype=None,delimiter=',',skip header=skip,names=True,invalid r
    return data
# Function to read HW4 bandpass data (Kepler and Spitzer 4.5um)
def ReadBandpass(filename,xvariable,unit,delim='\t',skip=8):
    # Extract data from file
    data = np.genfromtxt(filename,delimiter=delim,skip header=skip)
    # Extract data into 2 separate lists
    xdata, ydata = zip(*data)
    # wavelengths in micron
    if unit == 'um':
        # Save lists as numpy arrays (convert first list to m from um)
        xdata, ydata = np.asarray(xdata)/10**6*u.m, np.asarray(ydata)
    # wavelengths in nanometers
    elif unit == 'nm':
        # Save lists as numpy arrays (convert first list to m from nm)
        xdata, ydata = np.asarray(xdata)/10**9*u.m, np.asarray(ydata)
    # Convert wavelengths to frequencies
    if xvariable == 'freq':
        xdata = xdata.to(u.s**(-1), equivalencies=u.spectral())
    return(xdata,ydata)
```