```
Read in a FITS file from disk
>>> from astropy.io import fits
>>> hdus = fits.open("sample.fits")
Access the header of the first HDU:
>>> hdus[0].header
SIMPLE
                             Т
BITPIX =
                           -32
NAXTS =
                            .3
NAXIS1 =
                           200
NAXIS2 =
                           200
NAXIS2 =
                            10
EXTEND =
                             Т
Access the shape of the data in the first HDU:
>>> hdus[0].data.shape
(10, 200, 200)
Update/add header keywords
>>> hdus[0].header["TELESCOP"] = "Mt Wilson"
>>> hdus[0].header["OBSERVER"] = "Edwin Hubble"
Multiply data by 1.2
>>> hdus[0].data *= 1.2
Write out to disk
>>> hdus.writeto("new_file.fits")
```