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Define a quantity from scalars and units:
>>> from astropy import units as u
>>> 15.1 * u.m / u.s
<Quantity 15.1 m / (s)>

Convert a distance:
>>> (1.15e13 * u.km).to(u.pc)
<Quantity 0.372689618289 pc>

Make use of the unit equivalencies:
>>> e = 130. * u.eV
>>> e.to(u.Angstrom, equivalencies=u.spectral())
<Quantity 95.3724560923 Angstrom>

Combine quantities:
>>> x = 1.4e11 * u.km / (0.7 * u.Myr)
>>> x
<Quantity 2e+11 km / (Myr)>

Convert to SI and CGS units:
>>> x.si
<Quantity 6.33761756281 m / (s)>
>>> x.cgs
<Quantity 633.761756281 cm / (s)>

Use units with NumPy arrays
>>> import numpy as np
>>> d = np.array([1, 2, 3, 4]) * u.m
>>> d.to(u.cm)
<Quantity [ 100.  200.  300.  400.] cm>
>>> d.to(u.cm) * 1. / 50. * u.s ** -1
<Quantity [ 2.  4.  6.  8.] cm / (s)>
```