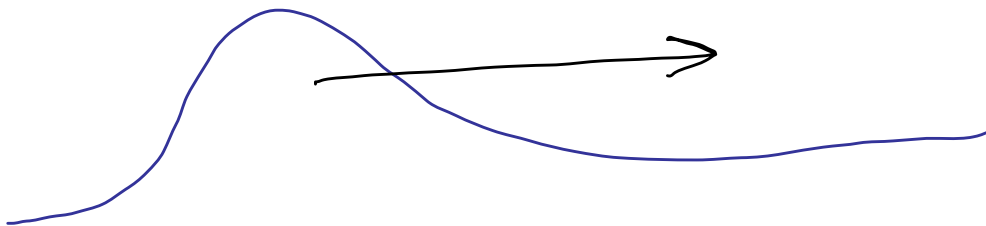


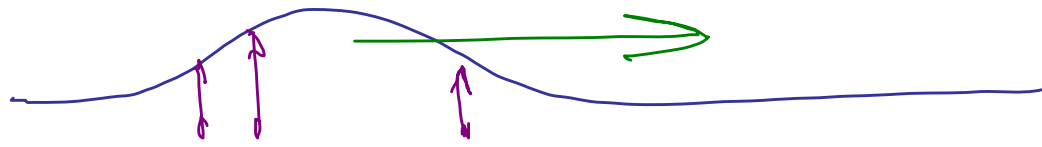
Waves.

Traveling disturbance.

Elastic medium.



Deformation (wave)
travels, keeps same
shape



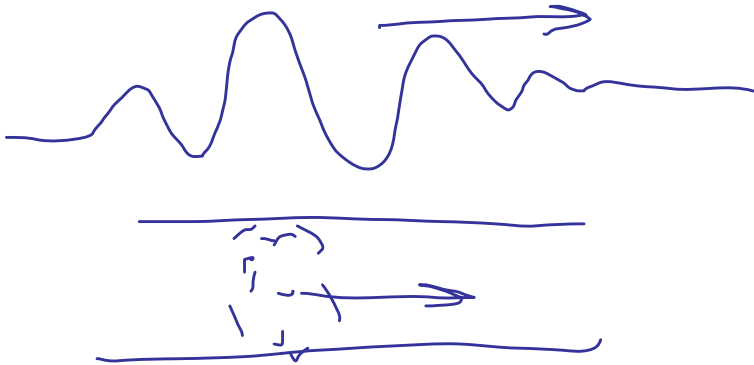
Wave motion \perp
particle motion

Transverse wave

String, ...

Wave motion is \parallel
to particle motion

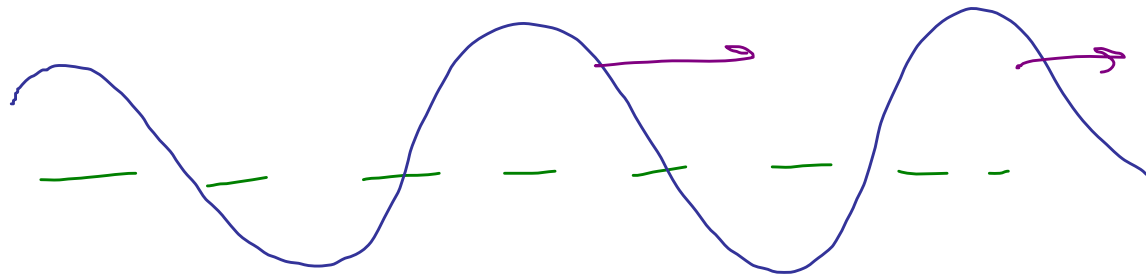
Pulse



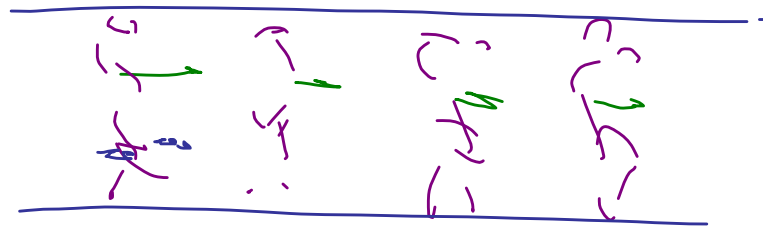
Longitudinal wave

Air

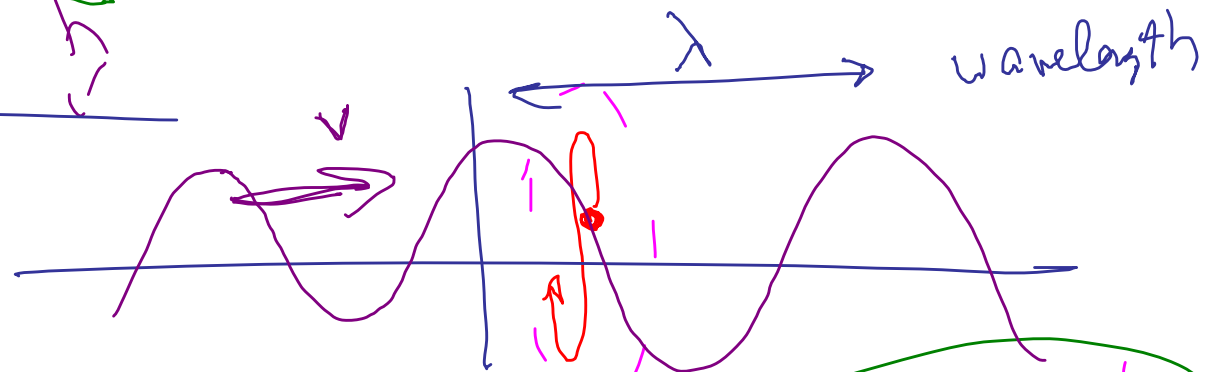
Harmonic Waves



In space shape
of the string
is sinusoidal



Repeat in space & time



wavelength

$$\lambda f = v$$

$f, T, f = \frac{1}{T}$