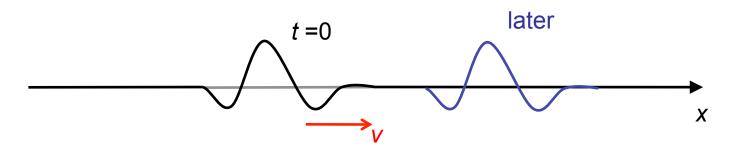
Wave Functional Form



Functional form at t = 0:

$$y(x,t=0) = g(x)$$

At t = 0, peak is at position x = c:

$$y_m(t=0) = g(c)$$

Later, peak is at position x = c + vt.

But you still get the peak by plugging c into g(x):

Since the shape stays the same, the full equation must be the same function *g* :

$$y(x,t) = g(x - vt)$$