Controlling position vs. velocity

Position control of point p

No update in draw handler

Position update in key handler
Left arrow -> $p[0]$ -= c
Right arrow -> $p[0]$ += c
Up arrow -> $p[1]$ -= c
Down arrow -> $p[1]$ += c

Velocity control of point p

Position update in draw handler
$p[0]$ += $v[0]$
$p[1]$ += $v[1]$

v velocity

Velocity update in key handler
Left arrow -> $v[0]$ -= c
Right arrow -> $v[0]$ += c
Up arrow -> $v[1]$ -= c
Down arrow -> $v[1]$ += c