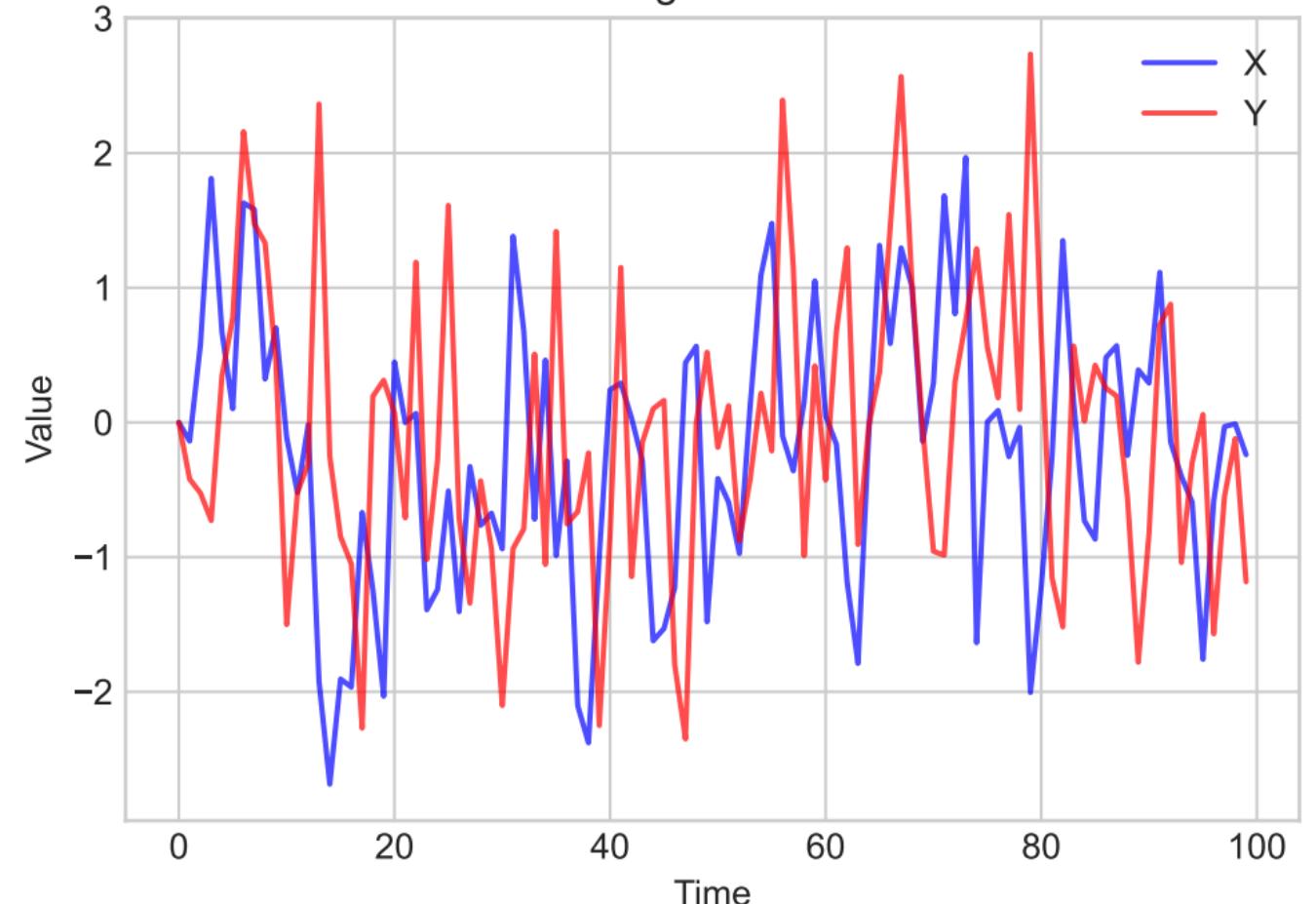


### X Granger-causes Y



*Past X helps predict Y  
(beyond Y's own past)*