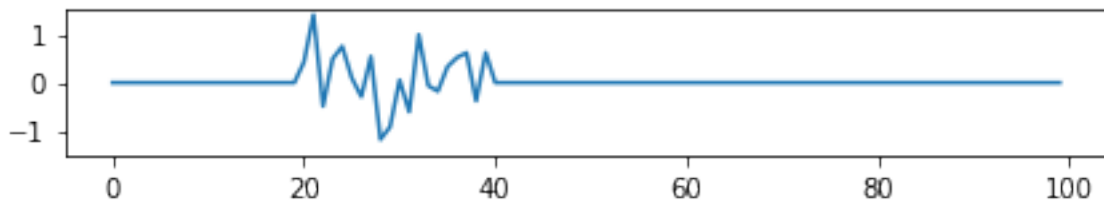


\mathbf{x} 

timestep

Echo State Network

 \mathbf{x}  W^{in}

Three-unit Reservoir

 W^{rec}  $\phi_t(\mathbf{x})$  W^{out}

$$f_t(\mathbf{x}) = W^{\text{out}} \phi_t(\mathbf{x})$$