

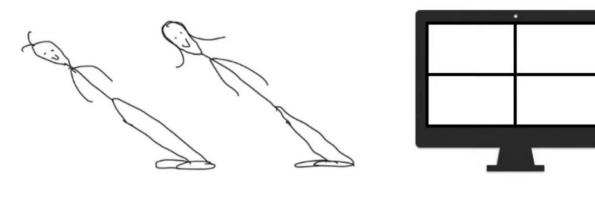






Slanted land

Slanted Land



Slanted people

2x2 screens

Slanted Land

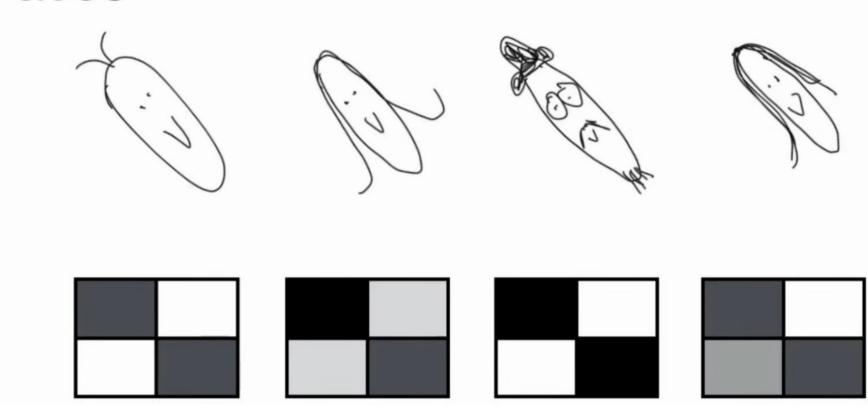


Slanted people

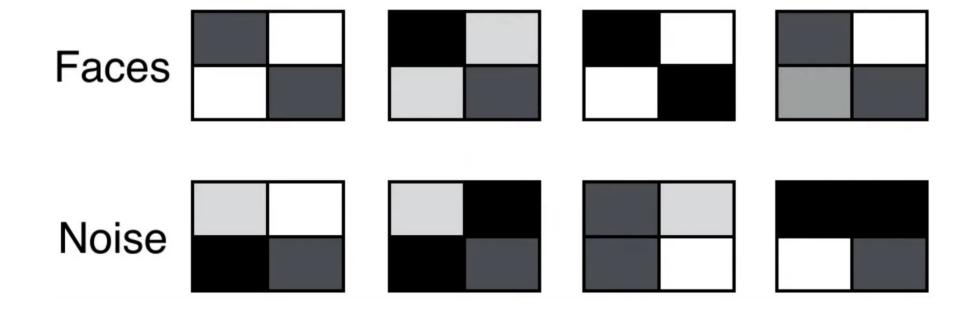


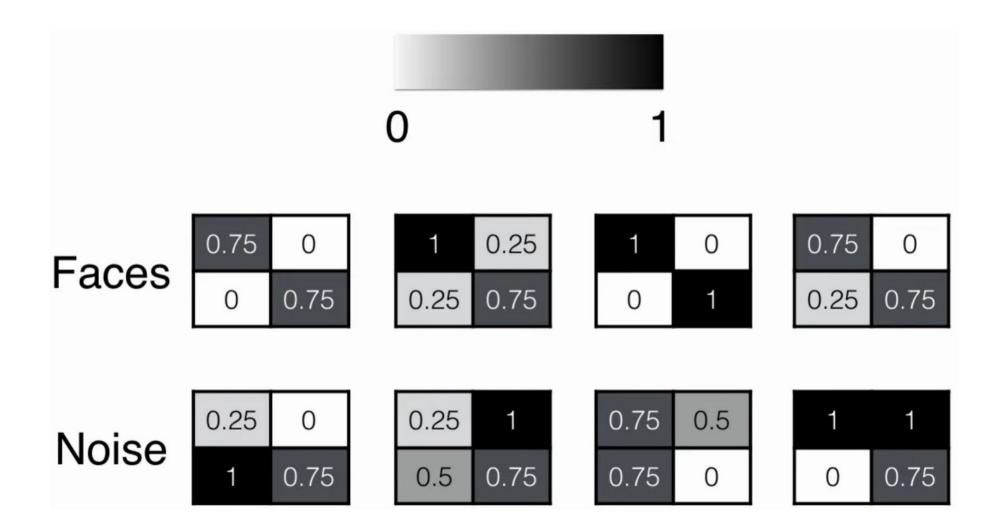
2x2 screens

Faces

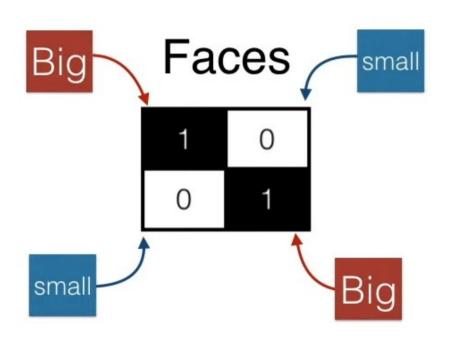


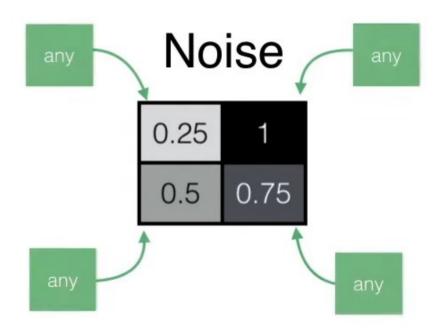
Tell them apart



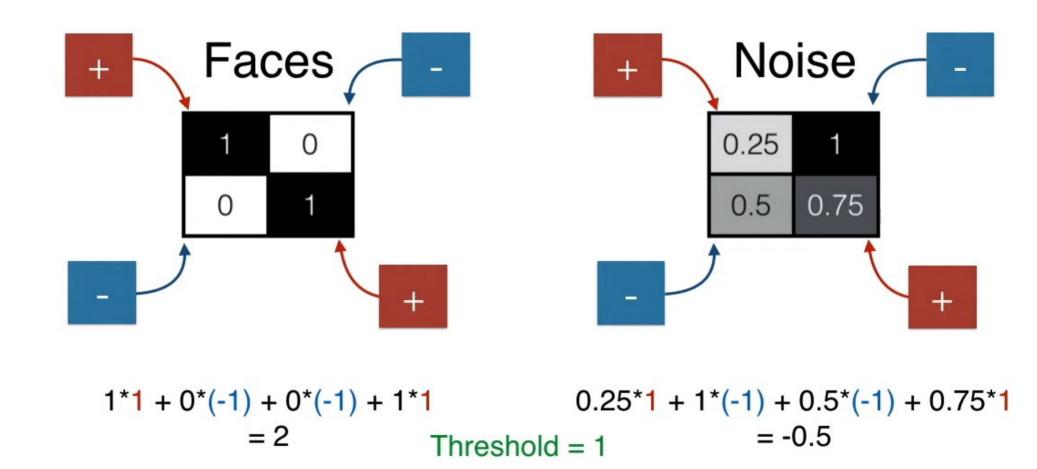


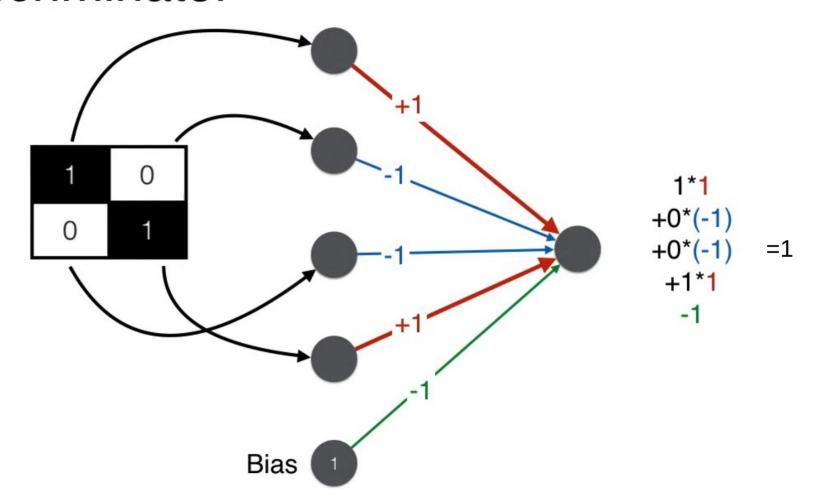
Building the discriminator

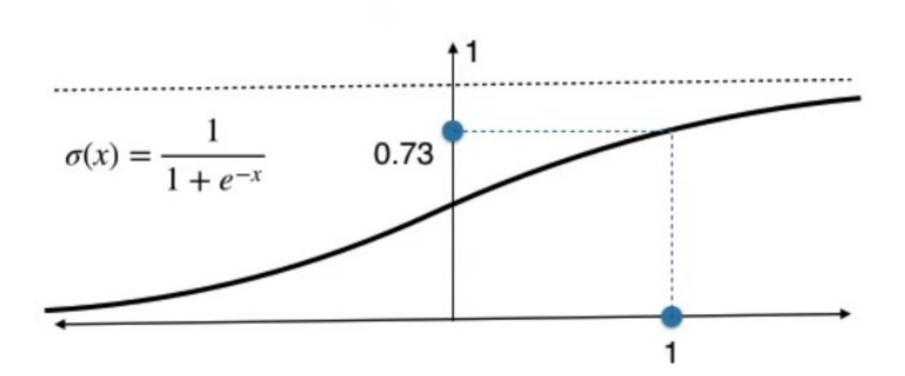


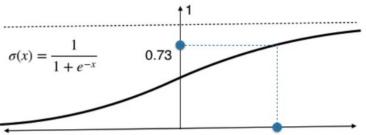


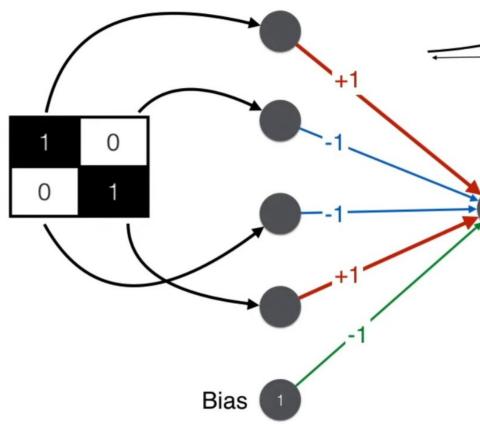
Building the discriminator





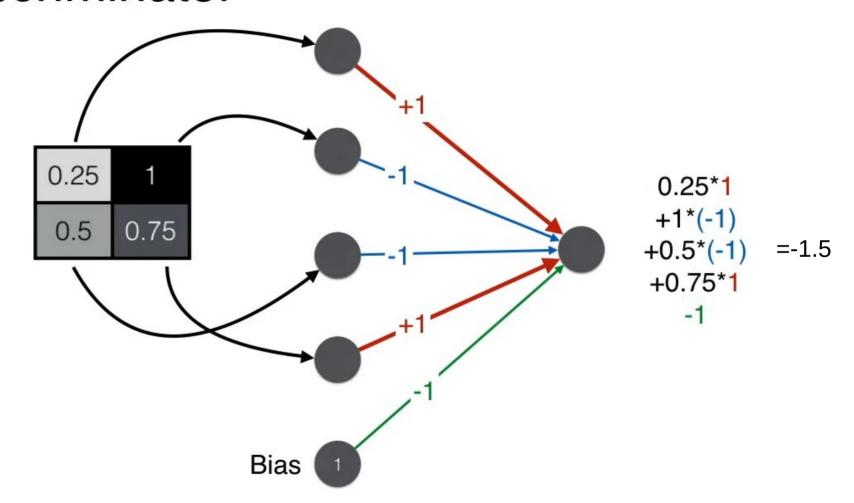


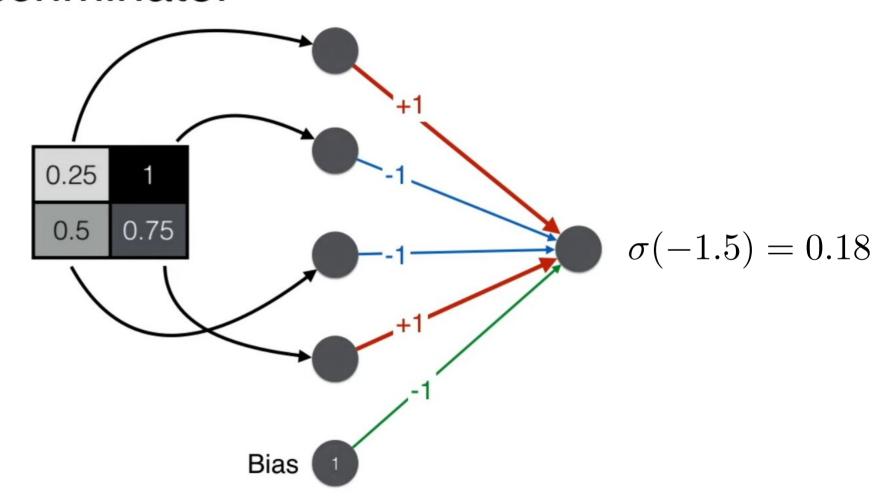


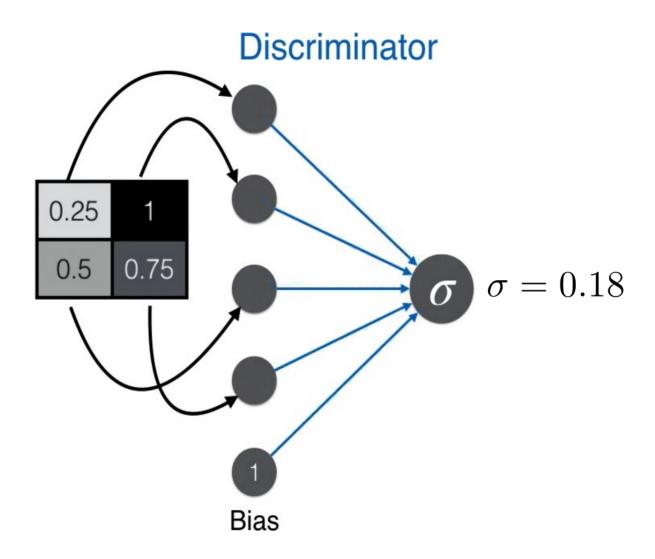


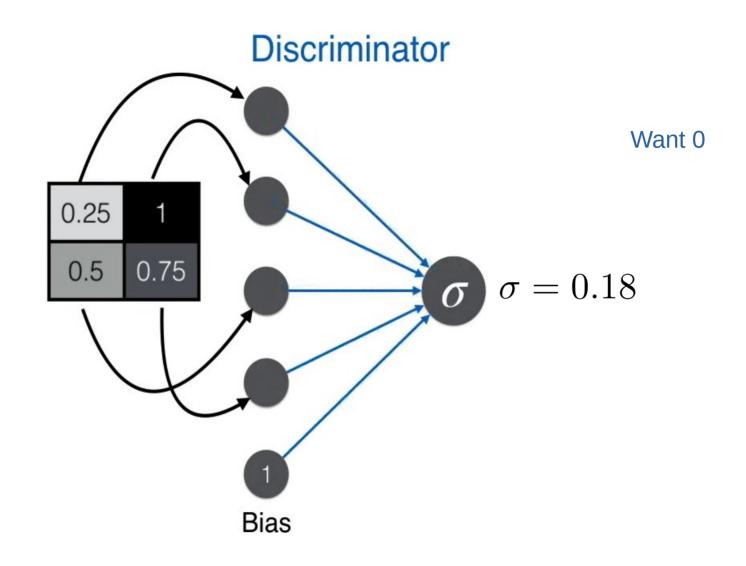
$$\sigma(1) = 0.73$$

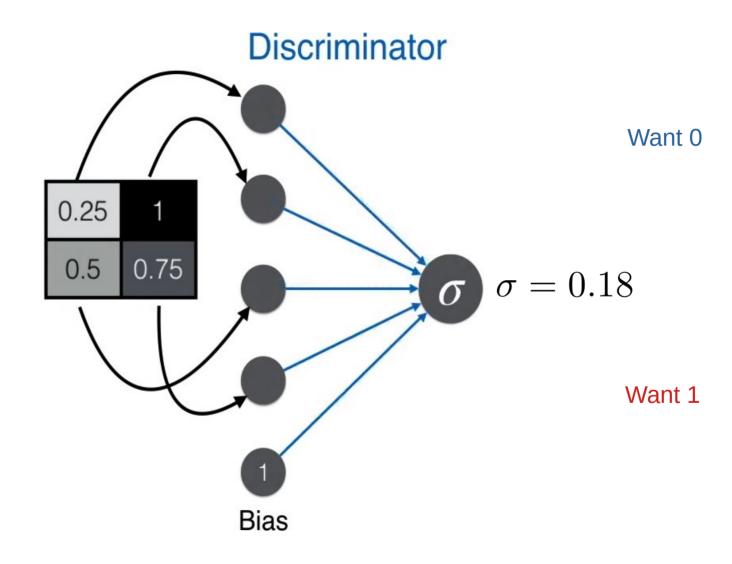


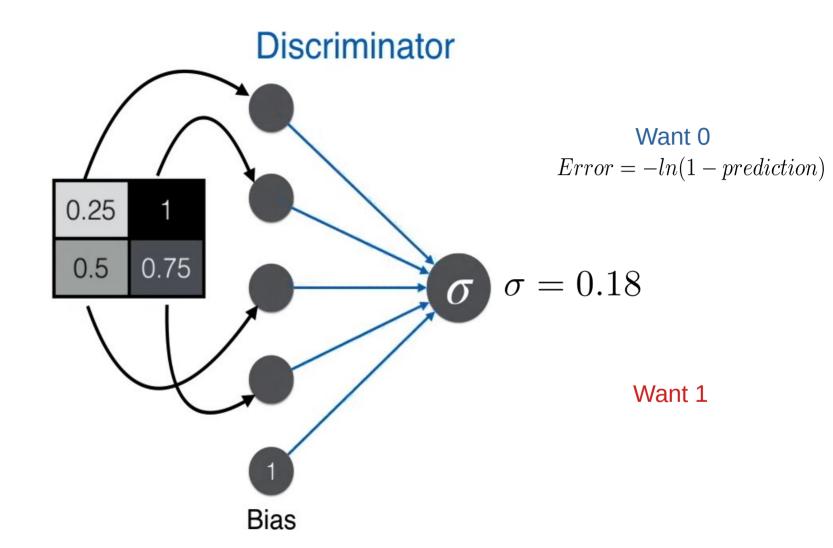


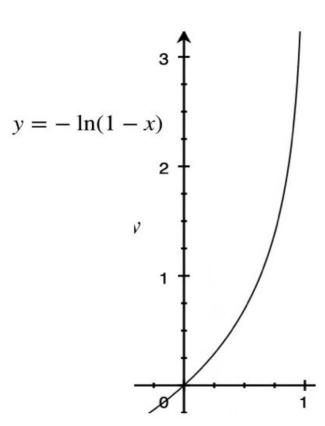


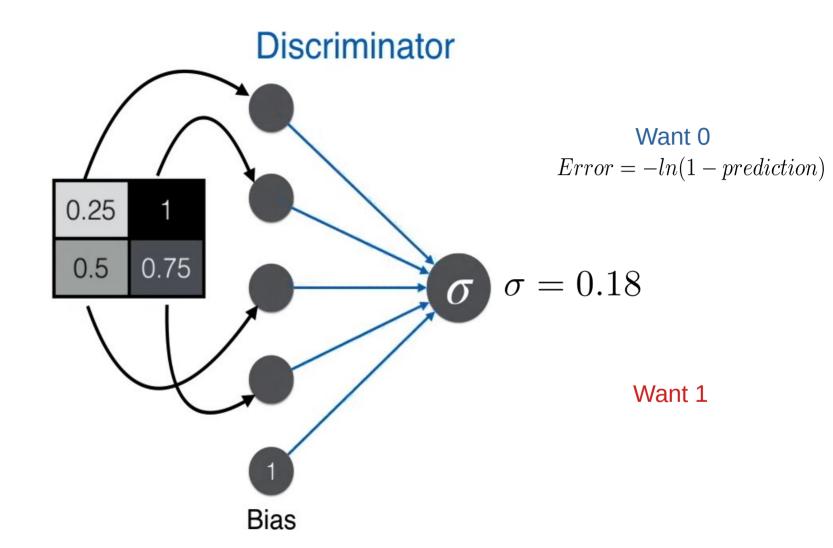








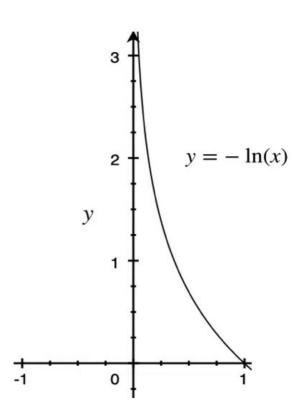




Discriminator Error = -ln(1 - prediction)0.25 0.5 0.75 $\sigma = 0.18$ σ Error = -ln(prediction)Bias

Want 0

Want 1



Discriminator 0.25 0.5 0.75 σ Bias

Want 0

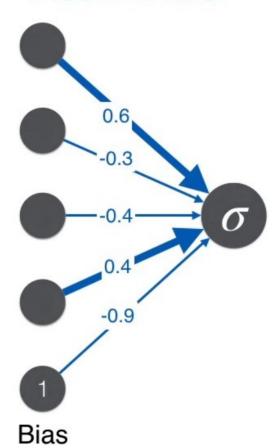
Error = -ln(1 - prediction)

$$\sigma = 0.68$$

Want 1

Error = -ln(prediction)





unrealperson.com













Interferencia catastrófica



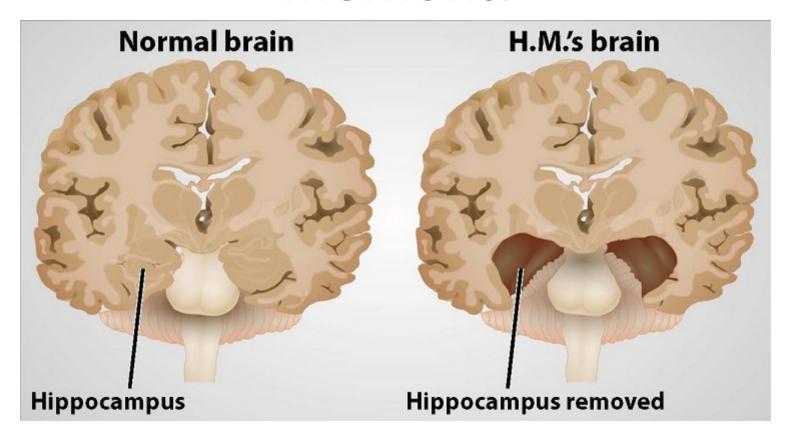
Video

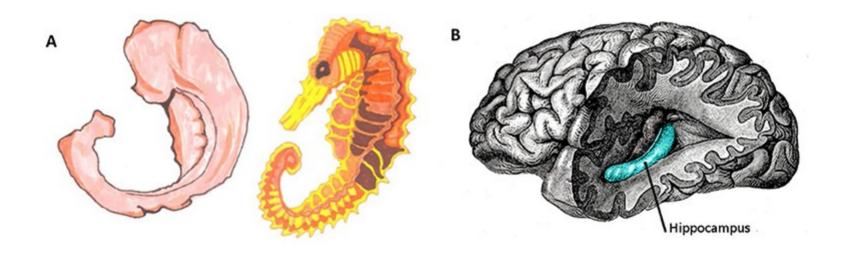
¿Olvidamos lo viejo al aprender algo nuevo?





Henry Molaison





- Lesiones de hipocampo
 - Amnesia retrógrada temporalmente graduada
 - Pérdida de información de poco antes de la lesión

- Dos sistemas de aprendizaje complementarios
 - Neocortical
 - Procesamiento de información y conducta
 - Tareas de alto nivel
 - Cualquier patrón debe servir como clave de recuperación
 - Información codificada en sinapsis que se modifican lentamente

- Dos sistemas de aprendizaje complementarios
 - Hipocampal
 - Cambios rápidos en sinapsis para aprendizaje en corto plazo
 - Representación "comprimida" de la información
 - Ensayo, situaciones relevantes o sueño activan el patrón hipocampal → Se alimenta a la neocorteza.

- Dos sistemas de aprendizaje complementarios
 - Hipocampal
 - El hipocampo no es un almacén, sino un maestro.
 - Actualiza lentamente las conexiones de la corteza.
 - La potenciación a largo plazo puede ser la señal que indica los cambios rápidos en el hipocampo

- Dos sistemas de aprendizaje complementarios
 - Hipocampal
 - Durante el sueño hay "sharp waves" de repaso hipocampal.
 - Neuronas activadas durante la vigilia se reactivan durante las sharp waves.

- Interleaved training
 - Cambios pequeños permiten captar la regularidad y no las características individuales.





