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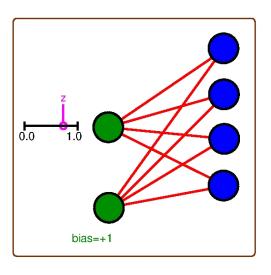
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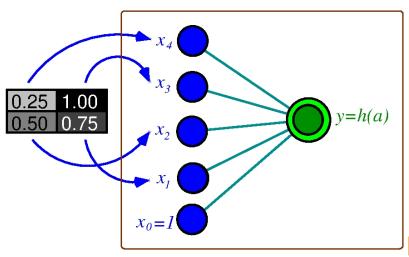
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- Disc o/p: Gen, Disc react diff: (detective, forger)
- log-loss: a convenient loss function. Why?
- If label=1, pred=0.1 (bad) high err $-\log(0.1) = 2.3$
- If label=1, pred=0.9 (good) low err $\vdash \log(0.9) = 0.1$
- If label=0, pred=0.1 (good) low err $\vdash \log(0.9) = 0.1$
- If label=0, pred=0.9 (bad) high err $-\log(0.1) = 2.3$



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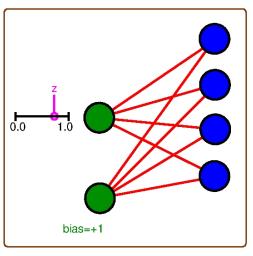
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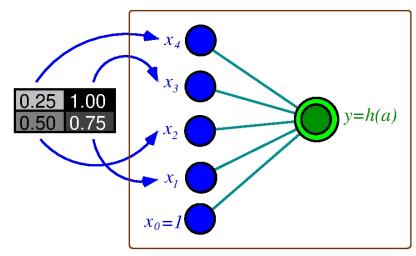
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- If label=1, Error= $-\log(prediction)$
- If label=0, Error= $-\log(1 prediction)$
- Gen:[noise], $\sigma(\cdot) = 0.68$. Disc wants:0 [noise]
- Disc Error: $-\log(1-0.68)$
- Gen always wants Disc=1. Gen Error: $-\log(0.68)$
- Gen loss: $-\log(D(G(z)))$: bnly change Gen wts
- Disc loss: $-\log(1-D(G(z)))$: bnly change Disc wts



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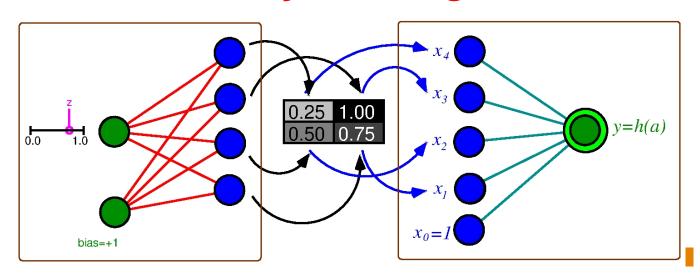
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- REPEAT[{Drag/Neur}-on][Time? 'drag on'][Result?]
 - 1. $z \mapsto G(z) \mapsto D(G(z)) \mapsto \text{update G, D wts}$
 - 2. Real image $x \mapsto D(x)$ update D wts



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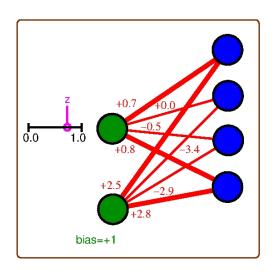
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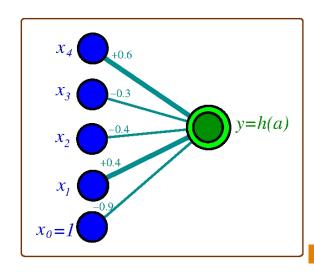
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- 'Too many cooks spoil the broth'
- 'Too many books spoil the couth'