V₁₊₁(8) = max [3] T(8, a, 8') (R(3, a, 8') + & V₇(8')] -1 (Cholly) 48: V((Si) =0 المره = الماكم مدد مودلكم V, (8,,)= a=up so//x (0+01/20) +01/x(0+01/20)+01 (0+01/20) a=doun =0/1x (o+0,9x0) +0/1x(0+0,9x0) +0/1(0+0,9x0)=0 10 = all Bec a=right: 0 Vi(81,)=0 VI(SIr)= a=up: 0/1 (0+0,9x0) + 0/1 (0+0,9x0) + 0/1 (-0) + 0,(-0) = -0,0 as down so of (0+ 019x0) + 011(0+019x0)+011(-0+019x(-0)) = -0190 a= left og/ (ot agxo) + o/1 (o+ o/1xo) = o/1 (- of)xo) = o a=night: 01/ (-0+019x(-0)) +011(0+0/1x0) +011 (0+0/1x0) =-V,4 Vi(Si,) J. (Sr.) = 0 V, (Sxx)= a=uf: 0/1 (0+0/9x0)+0/1 (0+0/9x0)+0/1 (+0+0/6) =+0/0 a=down: 0/1 (0+0/20) +0/1 (0+0/20) + 0/1 (0+0/9(0)) =+0/90 as Night: 0/1 (0+0/1x0) +0/1 (0+0/1x0) +0/1 (0+0/1x0) = 0

as Night: 0/1 (0+0/1x0) +0/1 (0+0/1x0) +0/1 (0+0/1x0) = 0

AS Night: 0/1 (0+0/1x0) +0/1 (0+0/1x0) = +V/9 V7(3,,) aidown: 01/ (0+01/x0) + 01/ (0+01/x0) + 01/ (0+01/x0) = 0

aidown: 01/ (0+01/x0) + 01/ (0+01/x0) + 01/ (0+01/x0) = 0 Vy (8") =0 a=left: 011 (0+0,900) = 011 (0+0,900) + 0,1 (0+0,900) =0 asnight: a/ (0+019x0) +01/(0+0,9x0)+0/1 (0+0,9x6) =0 asdom: 0/1 (0+09xy) + 0/1 (0+09x0) + 0/(-0+09(-0)) = + 40 yy as left: and (oto 9 xo) + oil (o + oil (o + oil (o + oil (o + oil xo)) = -oil as left: and (oto 9 xo) + oil (o + oil xo) + oil (o + oil xo) = + oil xo Vr (8,,) = + 4011 45 Fight: 0/1 (-0+(0)-9) + 0/1 (0+0) + 0/1 (0+0) (0+0) = -1,94 left asup = or (0+09/0)+011 (0+0900)+011 (0+090 V14) = 40,982 asleft: at (0+0/1x0) + 011 (0+0/1x0) + 011 (0+0/1x1/4) =0/4/8

asleft: at (0+0/1x0) + 011 (0+0/1x0) + 011 (0+0/1x0) =0 == = Vr(8,1) = 0, EU r an right: 1/x (0+019 x44) + 0/ (0+019 40) + 0/(0+019 40) = 0, Eur

3	(1,1)	(1,+)	(1,0)	(4,1)	(4,4)	(Y,C)
√s	0	٥	- D	0	0	10
5	0	0	-0	a	V,9	+0
V.	0	5,017	-0	1310	1,125	t0

$$\mathcal{H}_{(S)}^{*} = ang \max_{\alpha} \mathcal{Q}^{*}(8,\alpha)$$

$$\mathcal{Q}^{*}(8,\alpha) = \sum_{s'} T(8,\alpha,s') \hat{f}(8,\alpha,s') + V_{(s')}^{*}$$

[R ((,1) (1)	1) (1,0)	(201)	(4,4)	(1,0)
* *		-	-	



Sample =
$$R(8, 4(8), 8' + 8 \sqrt{8'})$$
 $\chi = 9.1$
 $V(5) = (1-\alpha) V(5) + (\alpha) / Sample$ $Y = 0.9$

$$V(S_{ir}) = (1-011) \times 0 + 01 \left[0 + 0.9 \times 0 \right] = 0$$

$$V(S_{ir}) = (1-011) \times 0 + 011 \left[-0 + 0.9 \times 0 \right] = -0.90$$

The Cos is deligated in the control of the cost of the الم كا كول مراس شكل علام كرد: · in Jaire on Leville Obison State .. ordes to cos la delende cos la la cope e Neural network articline.

10) cero action - values in a cotion action Il next state, is revard, is action as state for aget this: Experience Replay 3 . into one is replay memory Costas of Costas replay Nevery 25:11, Chris:11, Min-batches . @-learning updates

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Exploration Jose de policy o justin de la la ge This, in do le bose : Repert steps 1 to 619 M(Q-Inction) action vale 3:1 gt vis or in so so to Qleany to DQN Rollis : Q-learning its map on This zer to 21st als Stade 1 out to the contract of the chair of contract of the contract o . 02 100 de de 6 1/1 ch