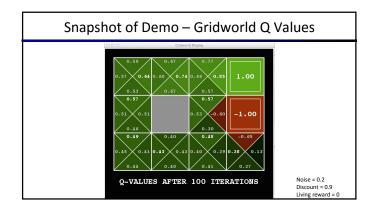
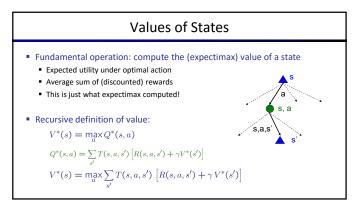
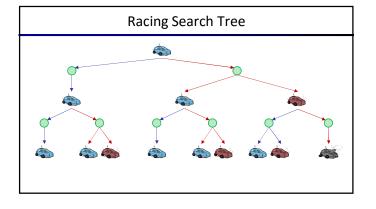
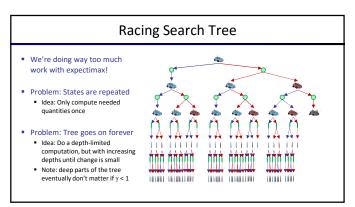


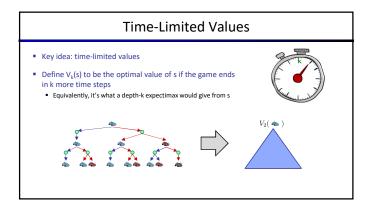
Snapsh	ot of D	emo –	Gridv	vorld V	Values
0	00	Gridworh	d Display		
	0.64 →	0.74 ≯	0.85)	1.00	
	• 0.57		0.57	-1.00	
	0. 49	∢ 0.43	0 .48	• 0.28	
	VALUES	AFTER 1	.00 ITER	ATIONS	Noise = 0.2 Discount = 0.9 Living reward = 0

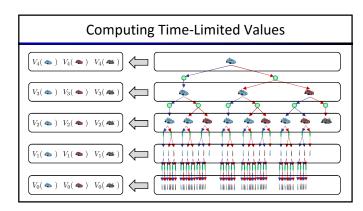


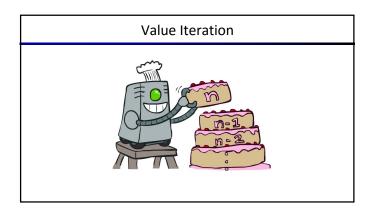


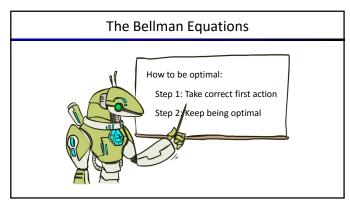


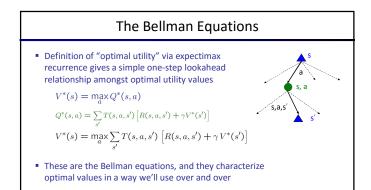


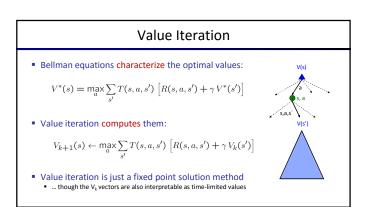


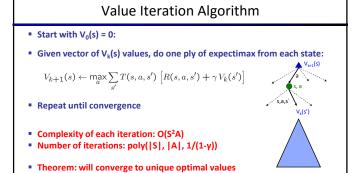


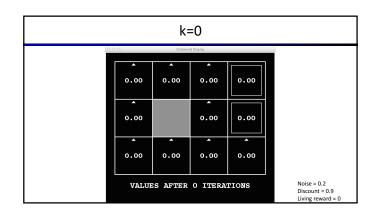


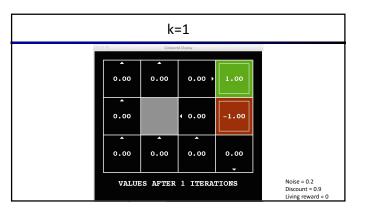




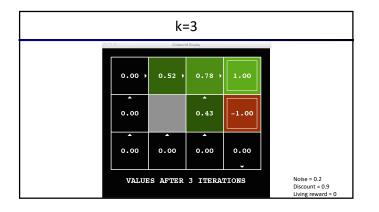


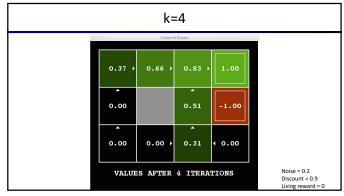


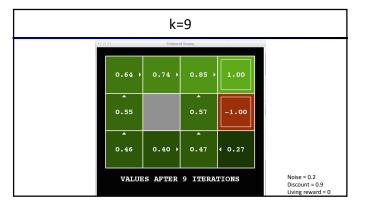


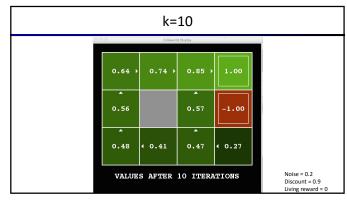


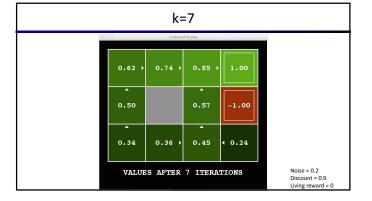
k=2						
3	000	Cridworl	d Display			
	0.00	0.00 >	0.72 ≯	1.00		
	0.00		0.00	-1.00		
	0.00	•	•	0.00		
	VALUE	Noise = 0.2 Discount = 0.9 Living reward = 0				

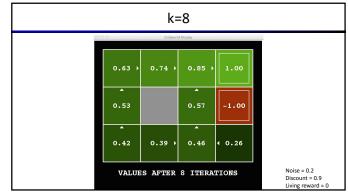


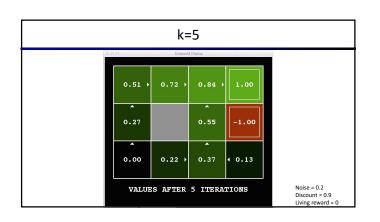


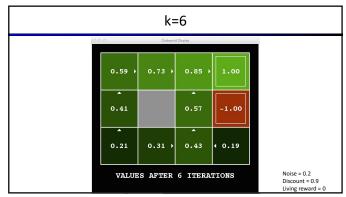


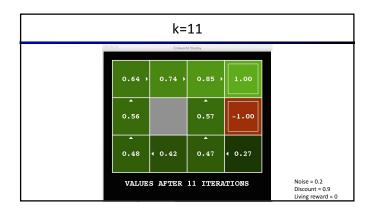


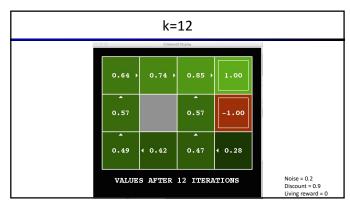


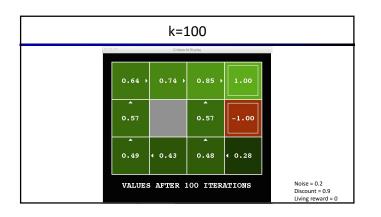


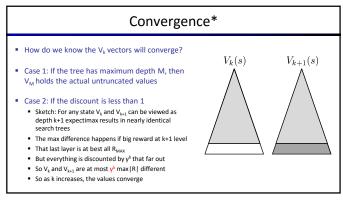


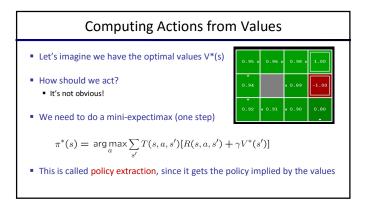


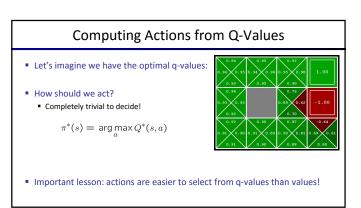


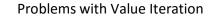








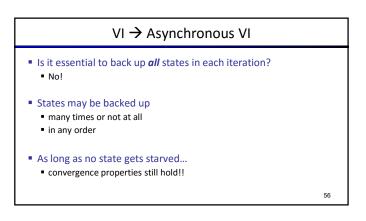


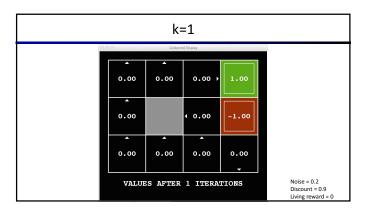


Value iteration repeats the Bellman updates:

 $V_{k+1}(s) \leftarrow \max_{a} \sum T(s, a, s') \left[R(s, a, s') + \gamma V_k(s') \right]$

- Problem 1: It's slow O(S²A) per iteration
- Problem 2: The "max" at each state rarely changes
- Problem 3: The policy often converges long before the values





	k=	=2		
000	Cridworl	ld Display		
0.00	0.00 >	0.72)	1.00	
0.00		0.00	-1.00	
0.00	0.00	0.00	0.00	
VALUE	S AFTER	2 ITERA	TIONS	Noise = 0.2 Discount = 0.9 Living reward = 0

