

















Gridworld Values V* $V^*(s) = \max_a Q^*(s, a)$						
(C	00	Gridworld Display				
	0.64 → 0.	74 → 0.85 →	1.00			
	0.57	0.57	-1.00			
	▲ 0.49 ◀ 0.4	43 0.48	∢ 0.28			
	VALUES AFT	ER 100 ITERA	ATIONS			





















k=0						
	000	Gridwor	ld Display	-		
						
	0.00	0.00	0.00 →	0.00		
				^		
	0.00		• 0.00	0.00		
		^				
	0.00	0.00	0.00	0.00		
				-		
	VALUE	S AFTER	1 ITERAT	TIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	

k=1						
	000	Gridwor	d Display	-		
If agent is in 4,3, it only has one legal action:		^				
get jewel. It gets a reward and the game	0.00	0.00	0.00 ≯	1.00		
is over. If agent is in the pit, it	^					
has only one legal action, die. It gets a	0.00		∢ 0.00	-1.00		
is over.		•	^			
Agent does NOT get a	0.00	0.00	0.00	0.00		
reward for moving				-		
INTO 4,5.	VALUE	S AFTER	Noise = 0.2 Discount = 0.9 Living reward = 0			



k=3						
0	00	Gridworl	d Display			
	0.00 >	0.52 →	0.78 ≯	1.00		
	0.00		•	-1.00		
	0.00	•	0.00	0.00		
	VALUE	S AFTER	3 ITERA	TIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	



k=5						
	000	Gridworl	d Display			
	0.51 >	0.72)	0.84)	1.00		
	0.27		0.55	-1.00		
	0.00	0.22)	0. 37	∢ 0.13		
	VALUE	S AFTER	5 ITERA	TIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	



k=7						
00	0	Gridworld	d Display			
	0.62 →	0.74 →	0.85 ▶	1.00		
	0.50		0.57	-1.00		
	▲ 0.34	0.36)	0. 45	∢ 0.24		
	VALUE	S AFTER	7 ITERA	TIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	



k=9						
	000	Gridworl	d Display			
	0.64 →	0.74 →	0.85)	1.00		
	• 0.55		0.5 7	-1.00		
	0.46	0.40 →	0. 47	∢ 0.27		
	VALUE	S AFTER	9 ITERA	TIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	



k=11						
	000	Gridwork	d Display			
	0.64 ≯	0.74 →	0.85)	1.00		
	0.56		0.57	-1.00		
	0.48	∢ 0.42	0.47	• 0.27		
	VALUE	S AFTER	11 ITERA	ATIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	



k=100						
	000	Gridworl	d Display			
	0.64 ≯	0.74 →	0.85)	1.00		
	0.57		0.5 7	-1.00		
	0.49	∢ 0.43	0. 48	♦ 0.28		
	VALUES	AFTER 1	OO ITER	ATIONS	Noise = 0.2 Discount = 0.9 Living reward = 0	







