Decision Table

Basic Structure

When to use a table?For decisions involving more than one criterion (e.g., difficult trade-offs between pros and cons)

	Criterion 1:	Criterion 2:	Criterion 3:	Criterion 4:
Criteria: What matters in this decision? Time, money? Risks, side effects? Stakeholders? Fears and hopes?				
Action 1:	What are consequences of Action 1 for Criterion 1?			
Action 2:				
Action 3:				
Action 4:				

Weighted Decision Table

When to use a weighted table? To evaluate your options quantitatively and determine the winner

□ To reflect about your criteria and values

	Criteria: What matters in this decision? Time, money? Risks, side effects? Stakeholders? Fears and hopes?	Criterion 1:	Criterion 2:	Criterion 3:	Totals: V = Value per Action: Sum of (W*R) per row	
	W = Weights: How important is this criterion?	W1 =	W2 =	W3 =		
Action 1:	R = Raw Ratings: How good is this? (1=worst, 10=best)	R =	R =	R =		
	Weighted Ratings	W1*R =	W2*R =	W3*R =	V (Action 1) =	
Action 2:	R = Raw Ratings: How good is this? (1=worst, 10=best)	R =	R =	R =		
	Weighted Ratings	W1*R =	W2*R =	W3*R =	V (Action 2) =	
Action 3:	R = Raw Ratings: How good is this? (1=worst, 10=best)	R =	R =	R =		
	Weighted Ratings	W1*R =	W2*R =	W3*R =	V (Action 3) =	

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Decision Trees

When to use trees?

□ For decisions involving uncertainties

Most useful if there are known risks and probabilities (e.g. medical decisions: likelihood of complications)



Decision Table and Tree Combo

When to work with a combination of table and tree?□ For decisions involving major uncertainties as well as multiple criteria

Criteria: What decision? Time, mon Risks, side Stakeholde Fears and h	t matters in this ey? effects? rs? nopes?	Criterion 1	Criterion 2	Criterion 3	V per Scenario: Sum of (W*R) per row	EV per Scenario: P*V	EV per Action: Sum of EV's of each Scenario
W = Weight: criterion?	How important is this	W1 =	W2 =	W3 =			
Action 1: P(1	Scenario 1a:	R =	R =	R =		EV(1a) = P(1a) × V(1a)	EV(2) = EV(1a) + EV(1b)
	P(1a) =	W1*R =	W2*R =	W3*R =	V(1a) =		
	Scenario 1b:	R =	R =	R =		EV(1b) = P(1b) x V(1b)	
	P(1b) =	W1*R =	W2*R =	W3*R =	V(1b) =		
Action 2:	Scenario 2a:	R =	R =	R =		EV(2a) =	EV(2) = EV(2a) + EV(2b)
	P(2a) =	W1*R =	W2*R =	W3*R =	V(2a) =	P(2a) x V(2a)	
	Scenario 2b:	R =	R =	R =		EV(2b) = P(2b) x V(2b)	
	P(2b) =	W1*R =	W2*R =	W3*R =	V(2b) =		