













	ANCHESTER- 1824	
niversity	Converting from RGB to YIQ (NTSC)
The Ur of Mar	Could have $Y = 0.33 \times R + 0.33 \times G + 0.33 \times B$ $C_R = R - Y$ ('Red difference' chrominance) $C_G = Y - G$ ('Green difference' chrominance)	e)
	Then: $C_R = 0.66R - 0.33G - 0.33B$ and: $C_G = 0.33R - 0.66G + 0.33B$	
	Instead: Y = 0.3 R + 0.59 G + 0.11 B I = 0.6 R – 0.28 G – 0.32 B Q = 0.21 R – 0.52 G + 0.31B	
	(PAL & SECAM use different numbers but similar idea).	
	cture 4 COMP28512	9













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of Ma	 Observe how energy is concentrated a the lower frequencies. In fact there seems little energy at higher frequencies in either direction. Look at the spectrum on a log scale with colour representing amplitude. 	
	Lecture 4 COMP28512	16









































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ersity	Huffman coding result	
Aand	A1 111	
ofA	A2 10	
	A3 110	
	A4 0	
	 Self terminating & more efficient than: 	
	A1 00	
	A2 01	
	A3 10	
	A4: 11	
	for the given probabilities.	
	But more difficult to decode. See [wiki]	
	Lecture 4 COMP28512	38







COMP28512

41



Lecture 4





















