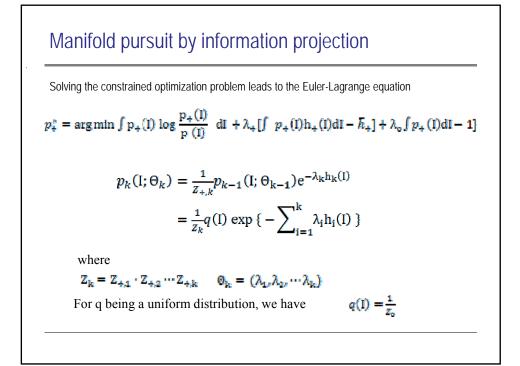
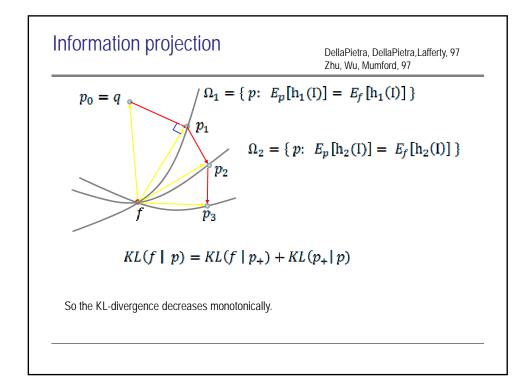
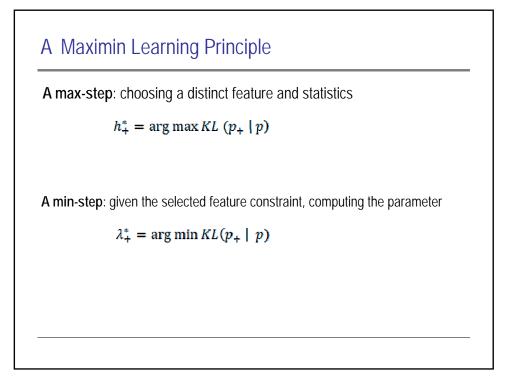
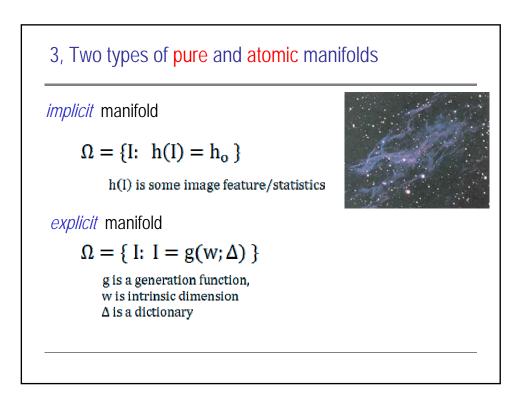


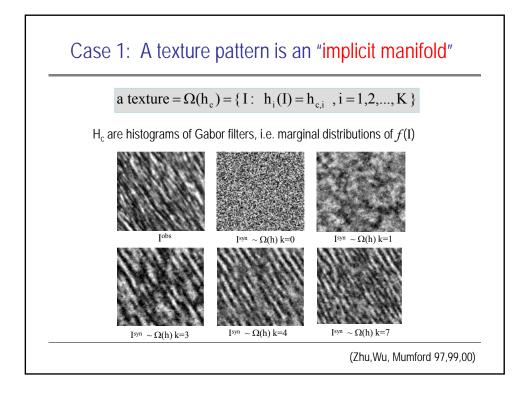
Manifold pursuit by information projectionGiven only positive examples from a class c $\mathfrak{L}_{c}^{+} = \{I_{1}^{obs}: i = 1, 2, ..., M^{+}\} \sim f(I)$ We pursue a series of models ρ to approach a underlying "true" probability f $q = p_{0} \rightarrow p_{1} \rightarrow \cdots \rightarrow p_{k}$ to fAt each step, we augment the current model ρ to a new model p_{*} At each step, we augment the current model ρ to a new model p_{*} At each step, we augment the current model ρ to a new model p_{*} At each step, we augment the current model ρ to a new model p_{*} Display to a projection constraint: $E_{p_{+}} \left[h_{+}(I) \right] = E_{f} \left[h_{+}(I) \right] \cong \overline{h}_{+}$ h_{+}(I) is a feature statistics of image I

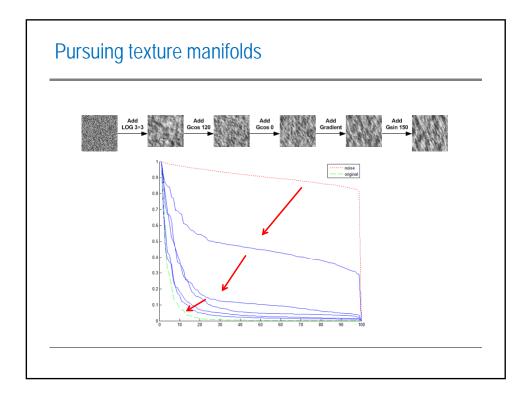


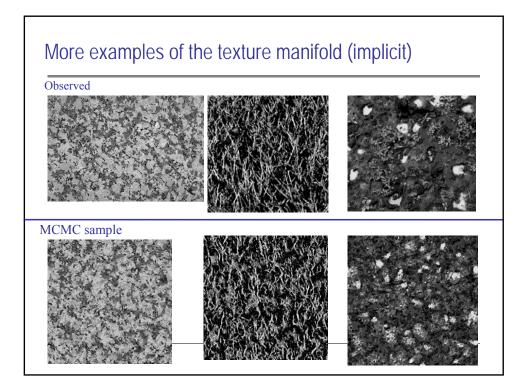


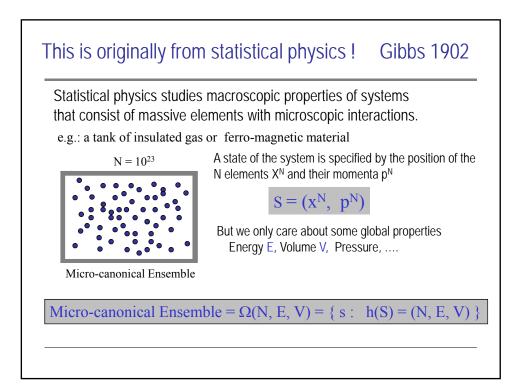


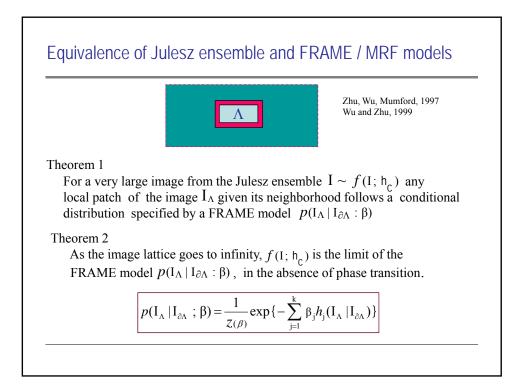


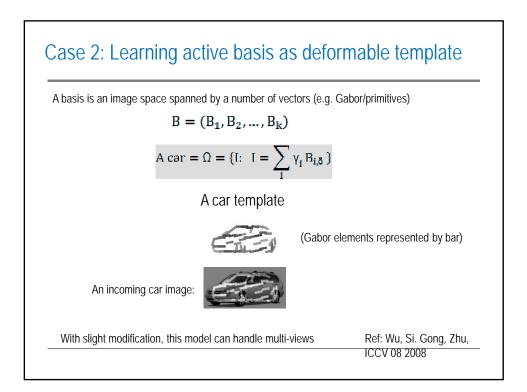


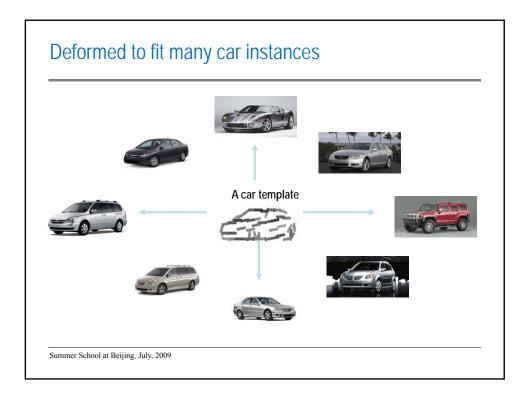


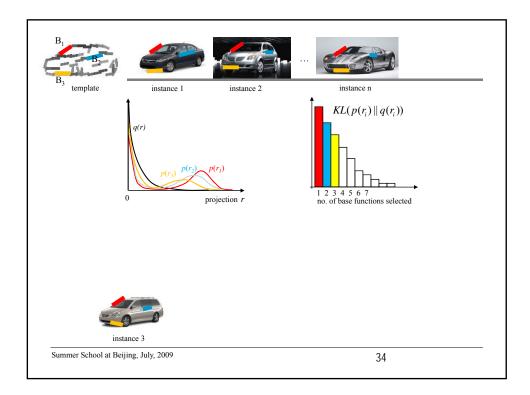


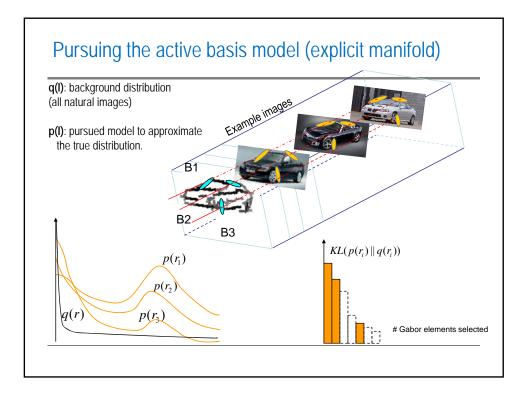


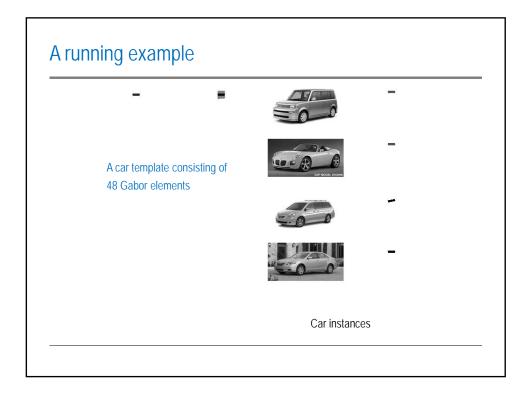


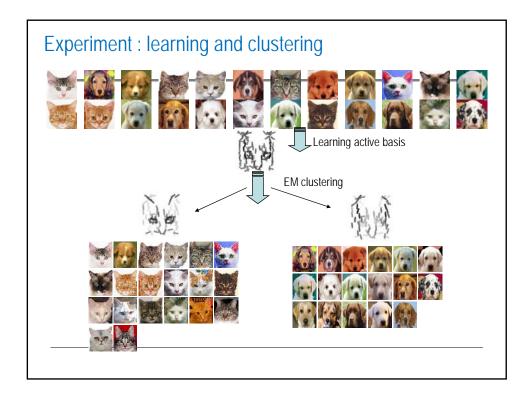


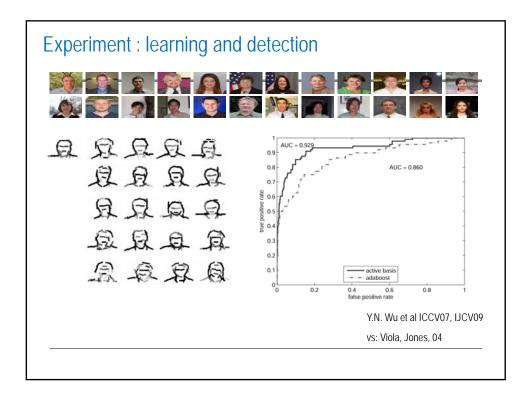




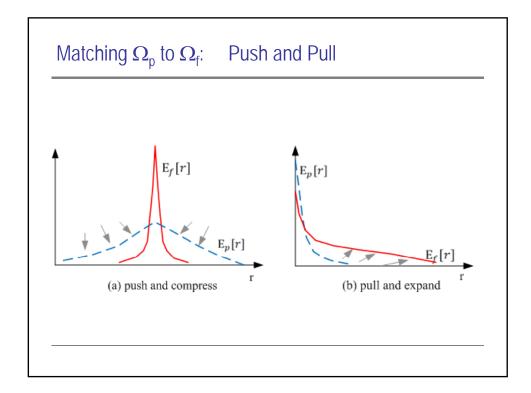


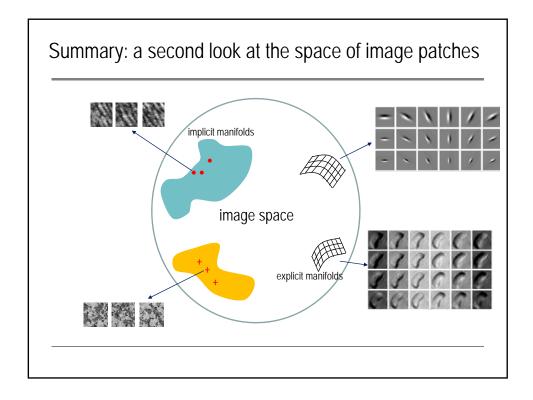


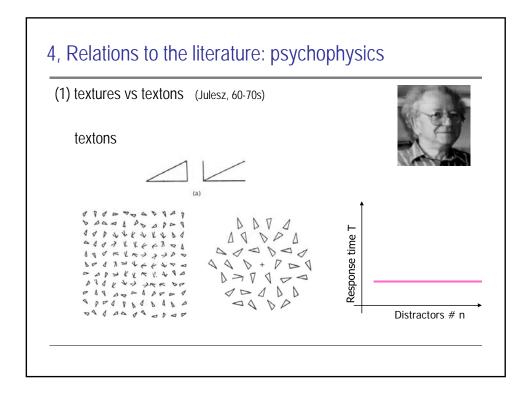


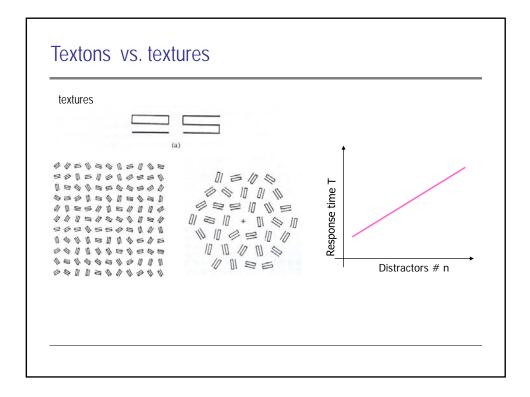


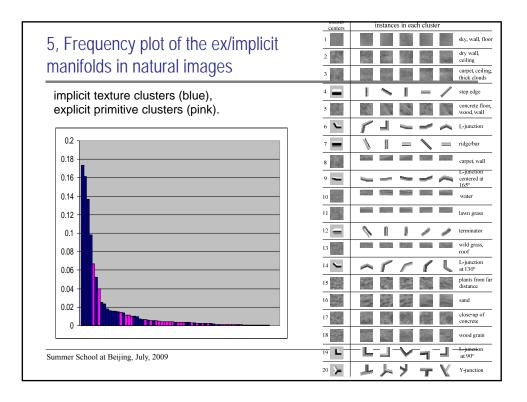


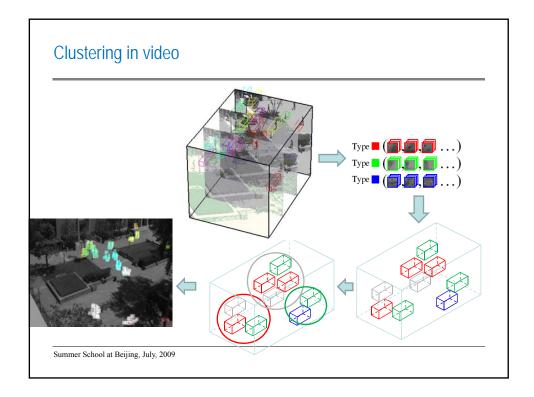




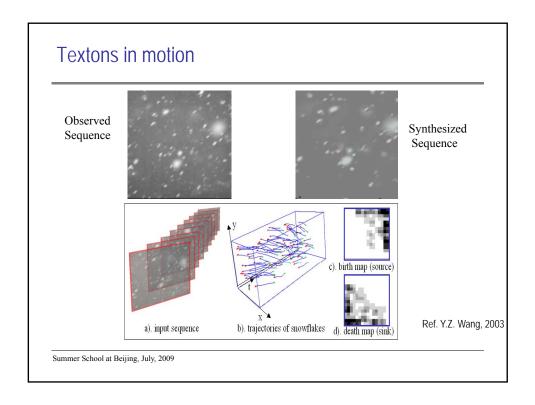


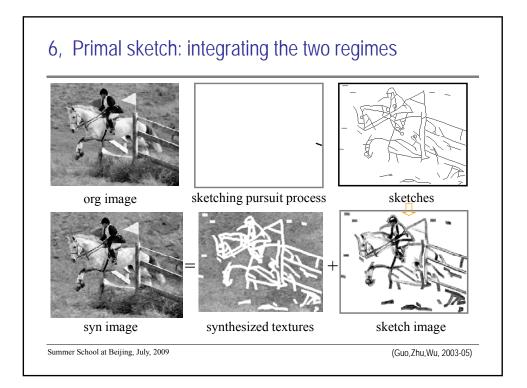




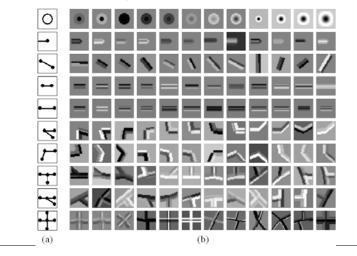


Examples in video	
explicit	implicit

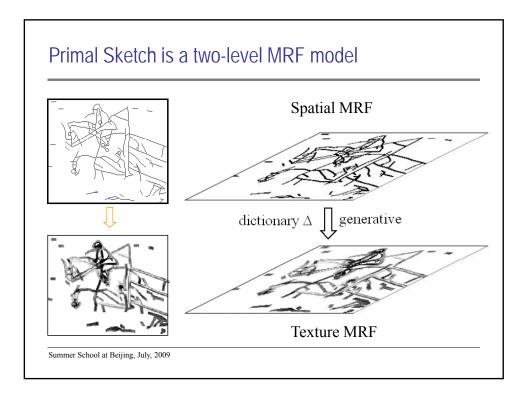


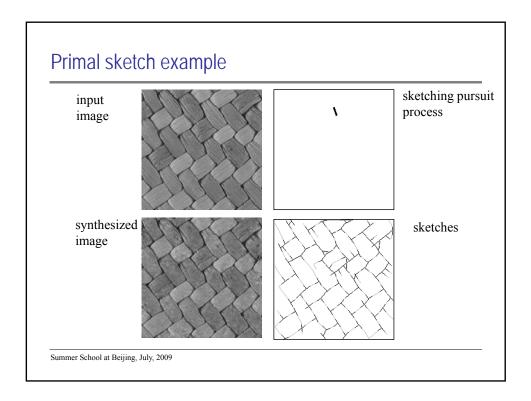


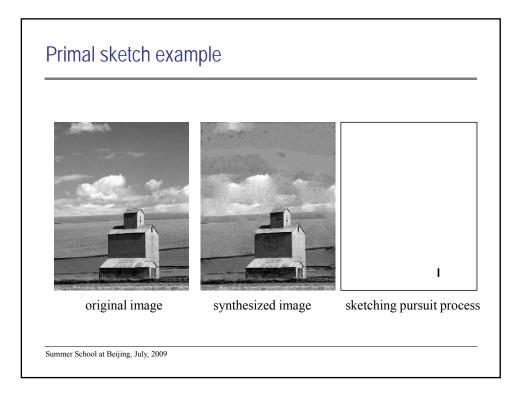
manifolds of image primitives

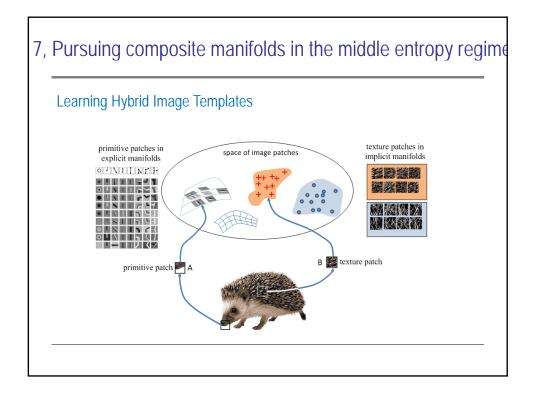


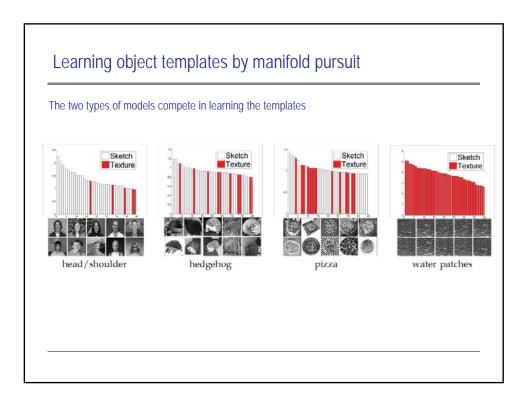
Learned texton/primitive dictionary with some landmarks that transform and warp the patches

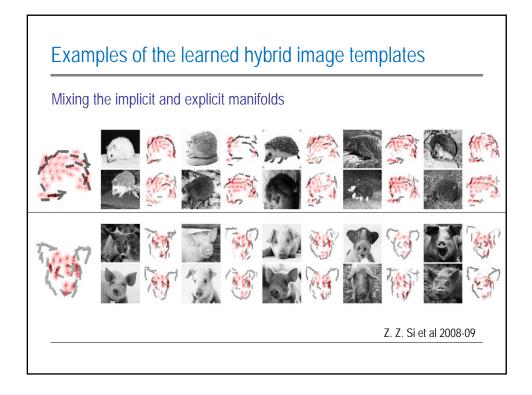


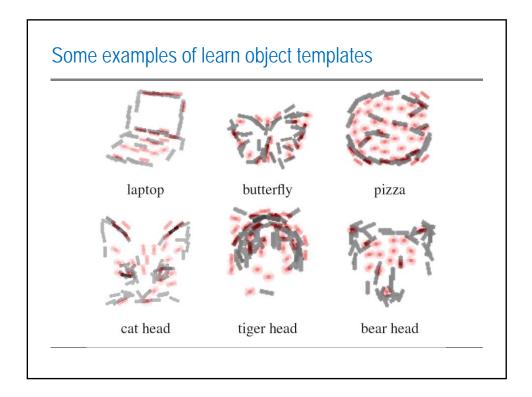


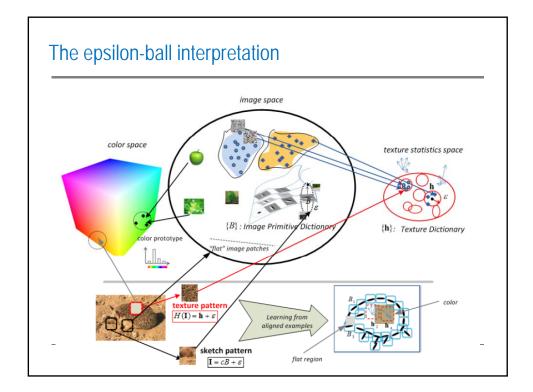


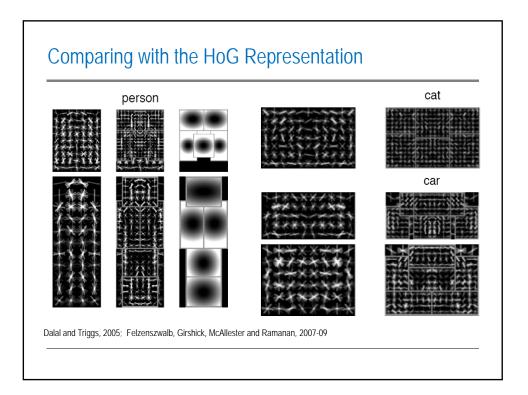


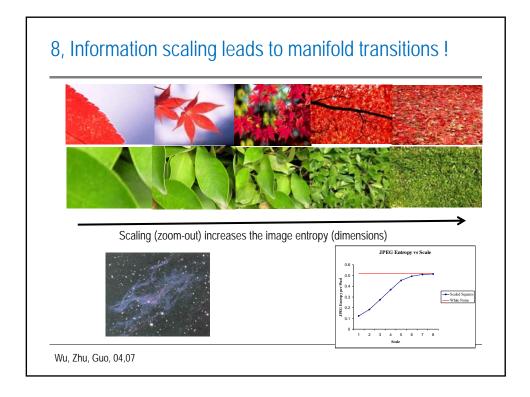


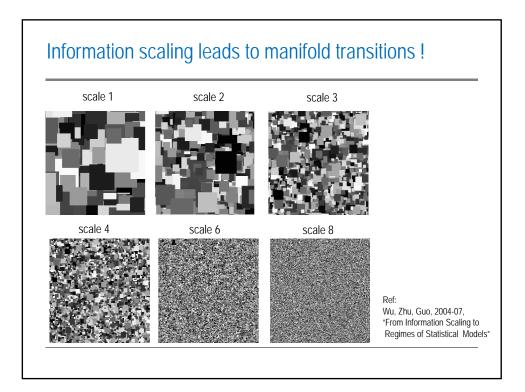


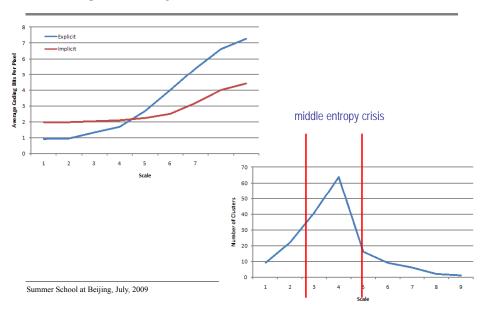






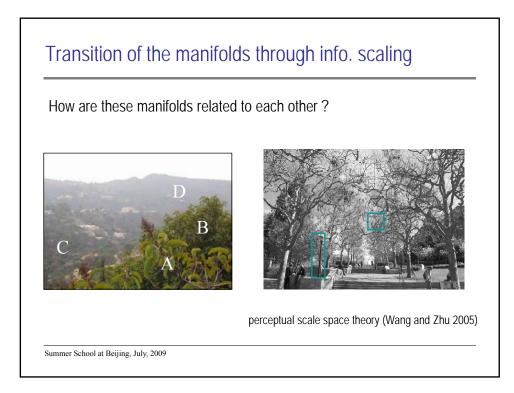


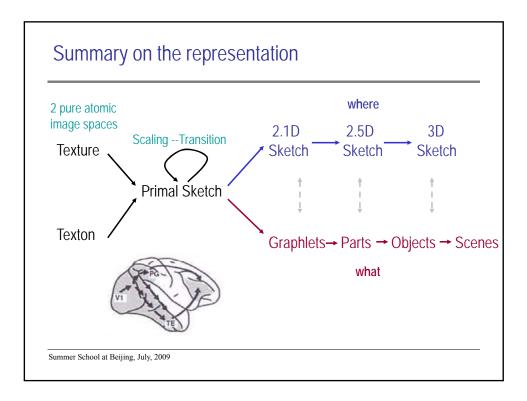


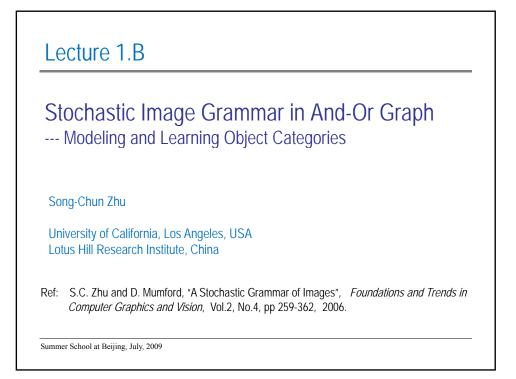


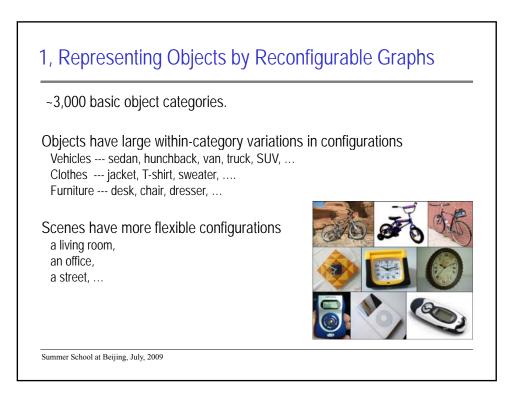
Coding efficiency and number of clusters over scales

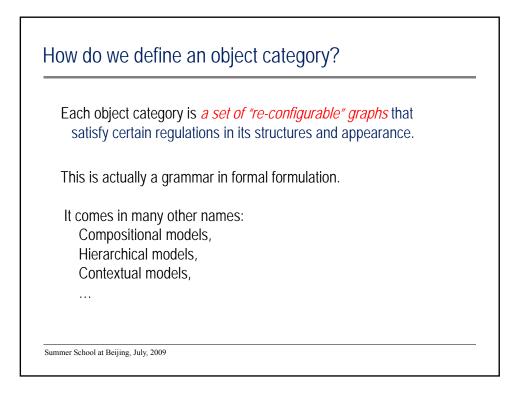
Edge	Bar	Two Parallel Lines	Cat	Dog	Lion	Tiger	Fur	Carpet	Grass	Noise
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	and a		X	0	N.	Ì	200		A.C.	
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1111101 15	a 4-tuple: $\mathcal{G} = (V_N)$	$V, V_T, \mathbf{R}, \mathcal{S}$) Production Rules		
Type - 0	Unrestricted	$\alpha \rightarrow \beta$		
Type - 1	Context-sensitive	$\alpha A \beta \rightarrow \alpha \gamma \beta$		
Type - 2	Context-free	$A \rightarrow \gamma$		
Туре - 3	Regular	$\begin{array}{c} A \rightarrow a \\ A \rightarrow a \end{array} B$		
0 0	f a grammar is the set of : $S \stackrel{\mathbb{R}^*}{\Longrightarrow} \omega, \ \omega \in V_T^* \Big\}$	all valid sentences $S \stackrel{\gamma_1, \gamma_2, \dots, \gamma_n(\omega)}{\Longrightarrow} \omega$		

