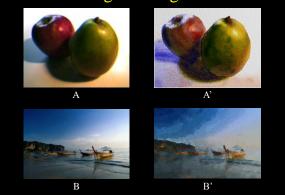
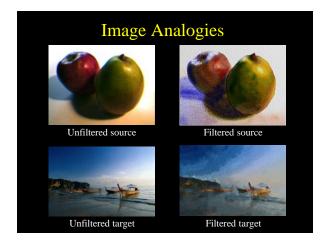
Image Analogies SIGGRAPH 2001

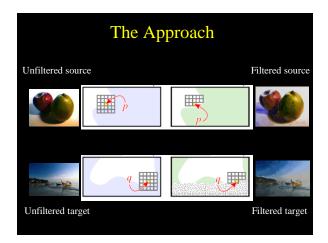
Aaron Hertzmann^{1,2} Chuck Jacobs² Nuria Oliver² Brian Curless³ David Salesin^{2,3}

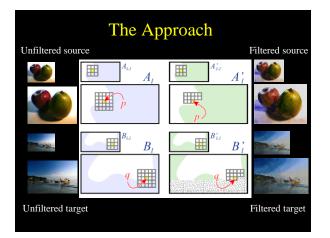
¹New York University ²Microsoft Research ³University of Washington

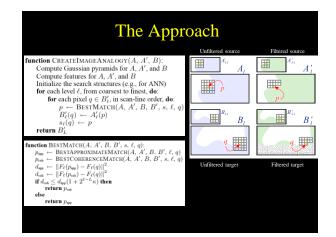
Image Analogies







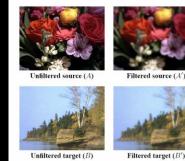




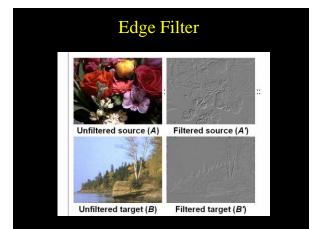
Implementation Details

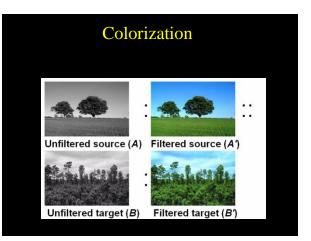
- Use approximate nearest neighbor search and Ashikhmin's coherence search heuristic
- Use *feature vectors* instead of pixel values - Feature vector can consist of RGB values plus additional "channels" such as luminance, outputs of derivative filters
- *Luminance remapping* to align color histograms of source and target images

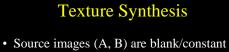
Blur Filter

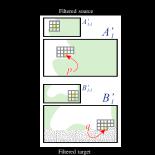


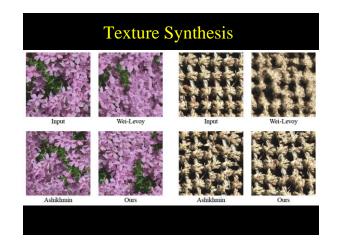






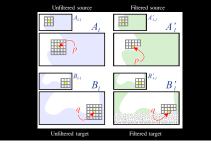


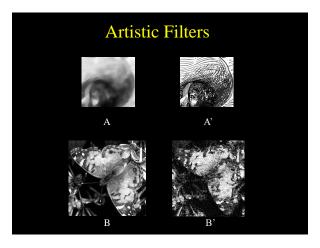


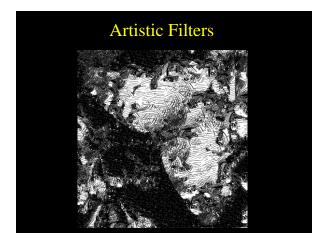


Texture Transfer

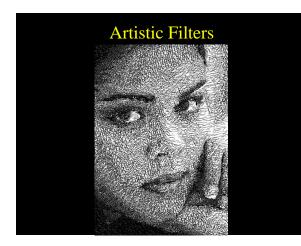
- A and A' is the same (or A is a blurred version of A')
- Optional: Tunable weight to control the tradeoff between matching (A, B) and (A', B')

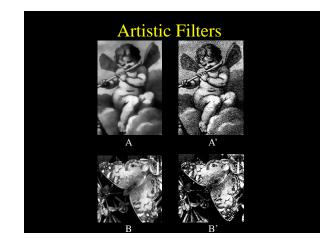












Artistic Filters

