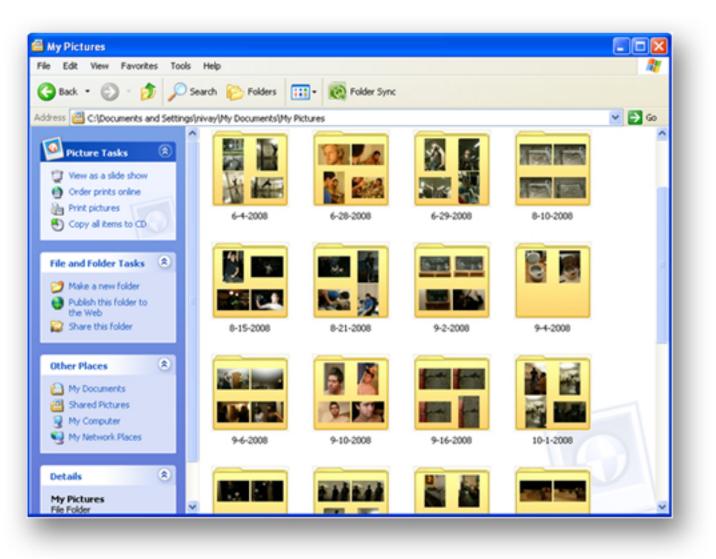


Final Project | CS294-10 FA08 | Prof. Maneesh Agrawala

Problem

The structure of digital photo albums do little to aid navigation.

Finding photos can be overwhelming due to: Folder hierarchy with arbitrary ordinal labels Photos scanned in batches of thumbnails



Motivation

Advancements in digital photo technology have allowed users to take an increasing number of photos. As the quantity of photos taken has risen, the means of organization has stayed relatively the same: the photo album.

As data storage gets cheaper, organizational problems will only grow.





PhotoViz Redesigning the Digital Photo Album

Approach

User Research: In a problem so intimately tied to the user's personal life, it was crucial to first perform a needs and usability analysis. Applicable findings include:

Exploration of Grouping: The next step was to find an efficient way to create a relationship between images using metadata. A tag cloud histogram was created to relate time + event keyword.

Layout Techniques: The final step was to prototype a layout. The interactive tag cloud histogram gave users a readable holistic view of their album.

Results



By Nivay Anandarajah

- Finding photos is not as much of a search form as a holistic navigation - Should stay within people's preferred search of time + event keyword

Future Work

Improvements include:

- Implementing content based image clustering
- Facilitating data prepara tion for navigation
- Caching online data for smooth navigation









