

# Visual Perception

## Imagetron image browsing (mock ups, proof of concept)

*Imagetrons* (of Visual Perception) are a set of image browsing methods in three dimensional space. They provide a way of browsing large sequences of images simultaneously on a computer display, such that the images and their sequence may be easily perceived and identified. Geometries found in nature like spirals and conic helices are deployed to compose and present intuitive visualisations of image sequences. Intuitive animation and user interaction mechanisms are also deployed to make the task of image browsing compelling and pleasant. *Imagetrons* are applicable to photo album browsing, menu browsing, file system browsing, on-line catalog browsing, mobile phones, set-top boxes, personal computers with display and a great variety of appliances with a computer display in general.

Advantages of these methods are:

1. Able to depict a long sequence of images in a small area, with

a very clear sequence

2. Intuitive browsing/shifting of images without discontinuities at the edges of the screen

3. Intuitive and simple metaphor of (double) spiral and film roll.

(We found the way to store more efficiently a long sequence of images with film rolls and reels, why not using this for browsing them? Nature also uses spirals to store a long animal: nautilus, snail, etc.)

4. Intuitive vortex-like animation - we are well aware of the way water goes down the drain!

5. Display of images which are not overlapping or are only slightly overlapping.

*Please note the mockup and demos are just from very early proof of concept prototypes which are far from a polished product.*

Double spiral / conic helix	Single spiral / conic helix	Film rolls	Other	Implemented prototypes
			 quad exponential	
 double spiral / conic helix (vertical)				 double exponential
			 quad spiral / conic helix	

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youtube demos: <http://www.youtube.com/watch?v=p3Os7M7hyN4>, <http://www.youtube.com/watch?v=tKvZ2MTeUdQ>