CS5245 Special Effect Project

the special Mahjong Player

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Story

4 people are playing mahjong. When it's
Justin's turn, he realized he has a bad
hand. Then he waved his finger across his
set of tiles, and the bad tiles gradually
changed to the winning hand.

Effect

- Main Effect:
 - The fluid effect on the texture of the mahjong tiles.
 - Flowing from the bad hand to the winning hand.

How to achieve the effect

- Using Fluid Solver to generate two sequence of distorted images, the bad hand and the winning hand.
- Morphing the last image in the bad set into the last image in the winning set.
- Composite the forwarding bad sequence, the morphing sequence and the reversing winning sequence together to make the flowing effect.

Fluid Solver

 The "Fluid Solver" source code is from Jos Stam

http://www.dgp.toronto.edu/~stam/reality/Research/pub.html http://jgt.akpeters.com/papers/Stam01/

- Fluid Solver mainly for simulating fluid effect, such as smoke. Accept density image only.
- Custom write the solver to make it applicable to images.







Morphing

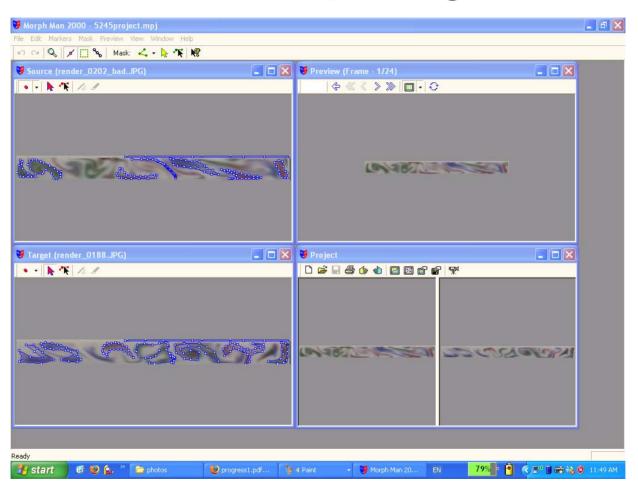
MorphMan2000

http://www.stoik.com/products/morphman/mm1 main.htm

 Morph two images and generate a sequence of intermediate images.

 Sequence of images are inserted into video

Morphing



- Match the shape and color in the similar positions.
- The sequence of intermediate images showing changes are generated.

Compositing

 Carefully extract the scene and composite the sequence of image into the raw footage.