

The Magic 2007

CS5245 VISION AND GRAPHICS FOR SPECIAL EFFECTS



Outline



Introduction

Special Effects

Magic wand and Butterfly

Spiritual Summoning

Conclusion

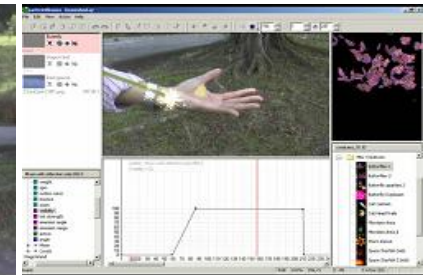
Introduction

- ❖ Scenario of Magic Wand 2007
- ❖ The special effects behind

Scenario

❖ The magician performance consists of **THREE** main shows:

- The accident of his magic wand to amuse his audience as the opening.
- The Aura and the butterfly show
- The spiritual summoning of himself with his self-teleporting for the impressive ending.



Result:

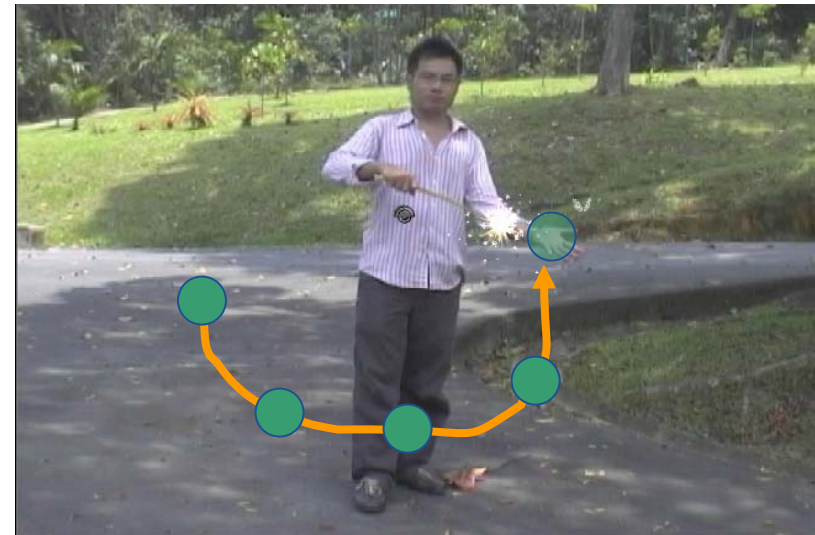
❖ Movie



1st Special Effect:

❖ The Magic wand

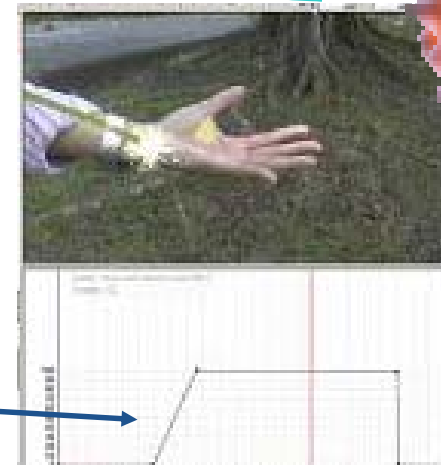
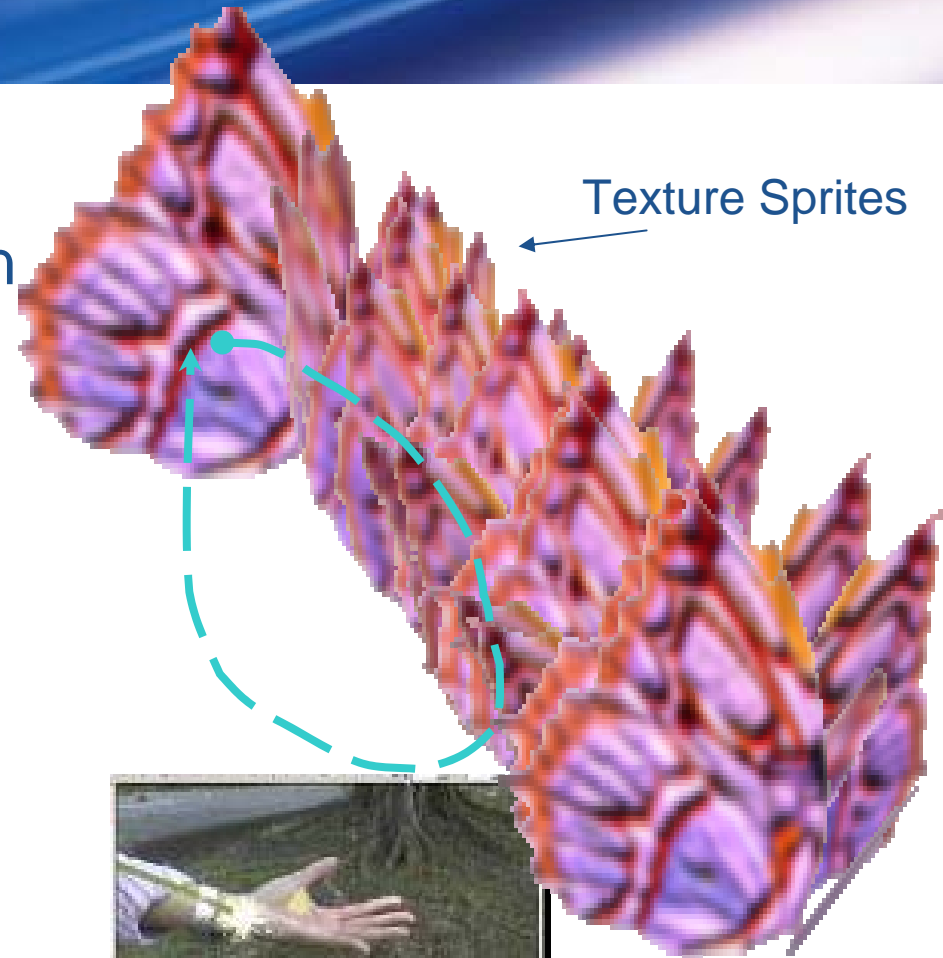
- The sparkling dust is imposed onto the footage using Particle Illusion software.
- The path is traced manually by setting key points.
- Intermediated points are bilinear interpolated automatically.



1st Special Effect:

❖ The Butterfly effect

- The butterfly animation is generated by “splatting” a set of texture sprites with transparent value and looping the sequence infinitely.
- To make a smooth emergence of the butterfly, we set the initial transparency value to 0 and increase it gradually.



Result:

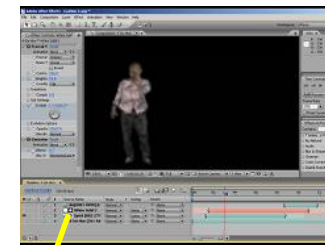
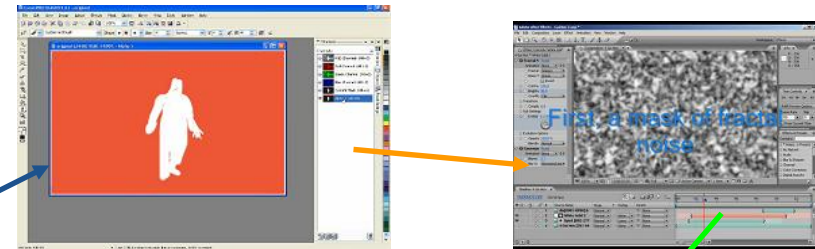
❖ **Movie**



Spiritual Summoning effect

❖ 1) Smoky summoning:

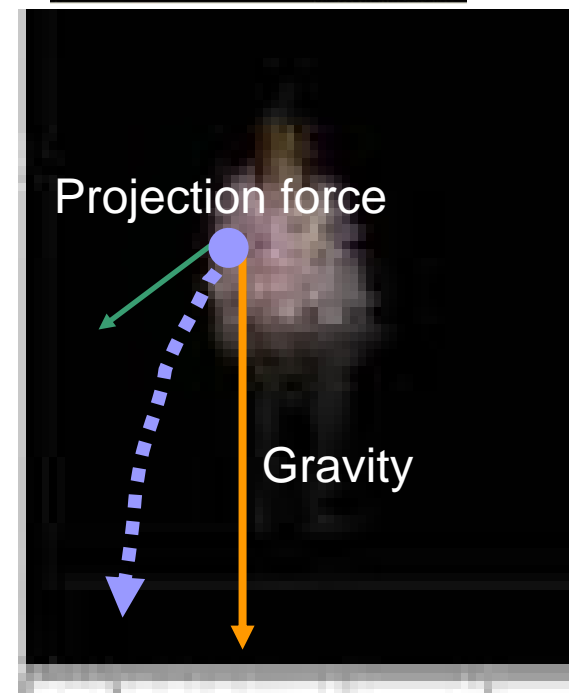
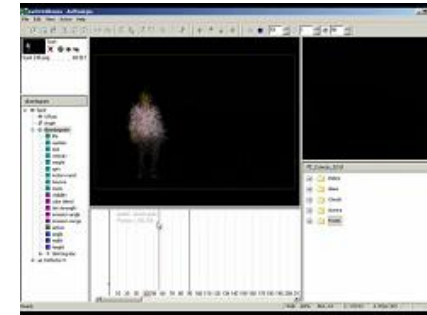
- Consists of 4 steps:
 - Alpha layer resulted from Blue-Screen masking.
 - Fractal Noise is generated for smoky effects.
 - Fractal Noise integrated into Alpha layer as final smoky mask.
 - Finally, all layers are put altogether as final result.



Spiritual Summoning effect (2)

❖ 2) Spirit falling effect

- The falling effect is made from Particle Illusion:
 - Spitting the foreground into thousands of small particles.
 - Animate the particle system by applying gravity force and the projection equation with ground level is set same as of the movie.
 - Finally, the result is added into After effects for final composition



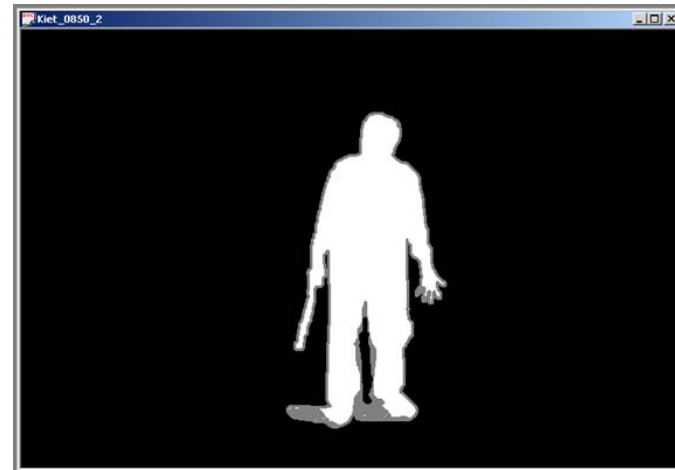
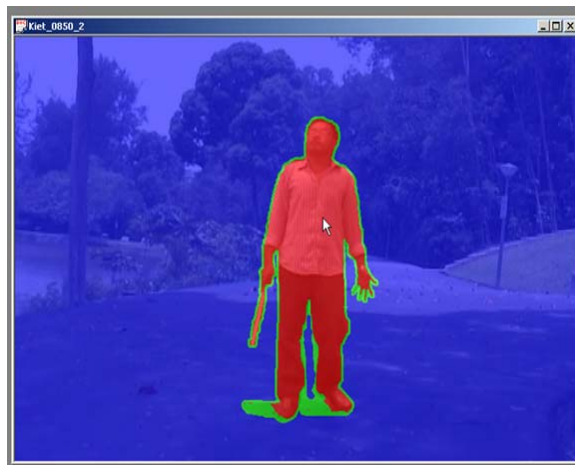
The making of The Magic 2007

❖ **Movie**



Natural Image Matting

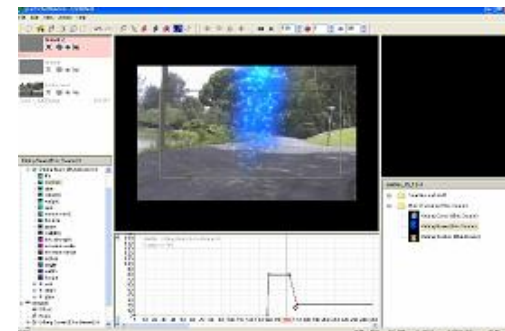
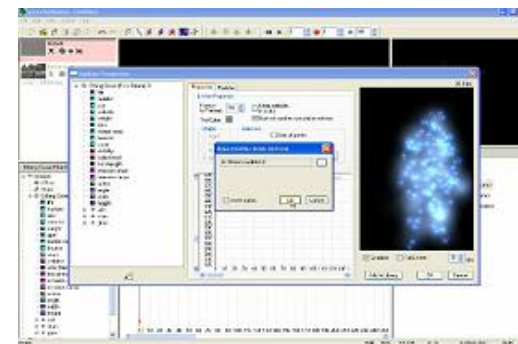
- ❖ Robust matt program of ABC, Uni xyz
- ❖ Steps:
 - Tri-map building: background, foreground, unknown regions
 - Estimate alpha of unknown region



Teleport effect

❖ Consists of 3 steps:

- Extract Alpha mask using Natural Image Matting method.
- The teleport dust is animated by Particle illusion and combined with the Alpha mask to make it look real.
- Finally, all layers are combined into After effects for final result.



Thank You !

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