

Computer Animation Festival

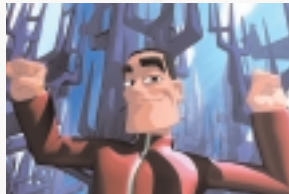
Chair

Sande Scoredos

Sony Pictures Imageworks Inc.



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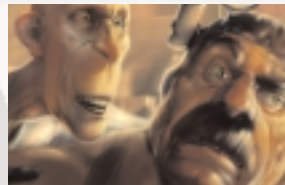


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COMMITTEE & JURY

Chair

SANDE SCOREDOS
Sony Pictures Imageworks Inc.

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Cinesite

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Rhythm & Hues Studios

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Animation Festival Chair
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USC Institute for
Creative Technologies

TIM SKELLY
Design Happy

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“THE SCREEN IS A MAGIC MEDIUM. IT HAS SUCH POWER THAT IT CAN RETAIN INTEREST AS IT CONVEYS EMOTIONS AND MOODS THAT NO OTHER ART FORM CAN HOPE TO TACKLE.”
 – Stanley Kubrick

2001: A Digital Odyssey

The Computer Animation Festival is the world's most prestigious film and video showcase of dazzling and innovative imagery created by current artists and scientists. As we enter the new century, we see that computer graphics has evolved and matured. We have advanced the technology to a state where anything is achievable and advancement is subtle. We now view computer graphics as another tool in the larger sense of moviemaking for visual story telling, entertainment, and explanation. The work selected for this year's Computer Animation Festival takes us on a remarkable journey that combines the talent and brilliance of current and future trends in art and science with the very best imagery depicting comedy, drama, romance, action, adventure, fantasy, science fiction, and science fact.

A record-breaking number of pieces were submitted, processed, and carefully reviewed by a distinguished jury of industry experts. The outstanding quality of the 679 superb submissions presented the jury with a difficult, yet pleasurable assignment. With only a limited number of screening hours available at the festival, the jury worked very hard to view every submission and selected the finest 118 pieces that personify all the elements of the Computer Animation Festival criteria. Each submission was carefully viewed and rigorously examined for technical excellence, innovation, artistic achievement, content, creativity, originality, narrative quality, design, entertainment value, production values, cultural diversity, and a contribution to the computer graphics industry.

With so much wonderful work to jury, every piece in all four festival theaters represents the finest work produced by the best animators, artists, scientific visionaries, and visual effects magicians in the world. My colleagues and I hope you are enormously entertained and inspired by the extraordinary selections presented in this year's festival.

Acknowledgements

A festival of this size and complexity is not the work of one person. It is produced by a large team of collaborating visionaries. A dedicated team of volunteers stepped forward to help plan and implement all the phases of assembling the SIGGRAPH 2001 festival. The festival teams generated a wealth of wonderful ideas and carried them out with precision and a unified vision. I am proud to have worked with this great group of talented individuals: Jill Smolin, Jane Stephan, Pam Hogarth, Paul Debevec, Mark Hall, Ladd McPartland, Nick Bali, Rob Engle, G.G. Heitman, Robert Minsk, Jessica Westbrook, Tim Skelly, Jacki Morie, Cat Thelia, Alan Botvinick, and Teddy Kim.

The Computer Animation Festival would be nothing without the extraordinary work and accomplishments of the submitters, and I congratulate all who sent in their work. The arduous task of processing all the submissions was accomplished by the dedication, patience, and energy of Eric Withee, our Festival Coordinator, and his team of committee members and student volunteers from The Art Institute of Los Angeles and Gnomon School of Visual Effects.

I commend and congratulate the prestigious jury panel for having the diligence and aesthetic and technical sensibilities to select this amazing body of work worthy of the prestige the Computer Animation Festival: Brian Blau, Jeremy Cantor, Richard Chuang, Paul Debevec, Andrew Glassner, Steve Goldberg, Thomas Hollier, Ladd McPartland, Jacquelyn Ford Morie, and Tim Skelly. My gratitude and thanks goes to The Art Institute of Los Angeles Culinary Arts Program for their delicious gourmet creations and for keeping everyone well fed and content throughout the jury meeting. Also to Jacquie Barnbrook, our Electronic Theater Producer, for her extraordinary energy, expert production skills, and sense of humor. Jacquie's ability to keep us all on track, on time, on budget, and laughing was the key to our success, and I am forever grateful. I am in awe of the gifted artists who volunteered their time and talent to create the beautiful designs for the production: Sheena Duggal, Theo Vandernoot, Rachel Nicoll, Michael Scheffe and the team of artists and effects animators at Sony Pictures Imageworks Inc.

Every Computer Animation Festival begins with an extraordinary piece of creativity. This year, Jerome Chen and Blur Studios collaborated to produce a brilliant piece of fun, beauty, and revelation to open the festival. It is destined to be an instant classic.

My deepest gratitude and thanks to the outstanding people at Sony Pictures Imageworks Inc. for their support, generosity, and contribution of talented artists, editors, and state-of-the-art facilities: Tim Sarnoff, Tom Hershey, Jenny Fulle, Debbie Denise, Stan Szymanski, Don Levy, John Nicolard, and Barry Weiss.

To my husband, John, who was always there lending his support, technical expertise, and love throughout the 18 months that I spent every moment of my spare time working on the Computer Animation Festival, I am thankful to have you by my side.

And to all the individuals who volunteered their time, energy, and enthusiasm: Without you, we could not have created this wonderful festival for our peers, friends, and community.

Sande Scoredos
 Computer Animation Festival Chair

ACKNOWLEDGEMENTS

Acknowledgements and thanks to those who have generously given time, talent, expertise, and resources.

GREG ABARTA
JOSH ABRAMS
MARCY ALEXANDER
TED ALEXANDER
JASON ANDERSON
MANNY AVITA
JOHN BAKER
MATTHEW BAKER
MICHELLE BASCHE
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MARRY BORLIK
ALAN BOTVINICK
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DEREK CARLSON
PJ CHAMBERS
JEROME CHEN
ANDREW CHO
MICHAEL COHUT
MICHAEL D'AMBROSIO
BRANDON DAVIS
TIM DELONE
DEBBIE DENISE
TOM DILLON
SCOTT DOUGHERTY
STIRLING DUGUID
DENA EBER
MICHAEL EDLUND
HEATHER ELLIOTT
NATHAN ERICKSON
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CARRIE EWERT
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GILL FRIEDMAN
JENNY FULLE
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DAVID GARFIELD
PATRICK GEALOGO
FRED GEORGES
JUAN GRANJA
DAWN GUINTA
TAIGNE HAMMOCK
G.G. HEITMAN
TOM HERSHEY
JIMMY HONORÉ
DR. BOB HOPKINS

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JOHN HUGHES
JENNIFER HUNT
SEVAK ISSAGHOLIAN
BEN JACOBE
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MARLON NOWE
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DANA PLEPYS
DUANE POWELL
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STEVE PRAWAT
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JEFF WOLVERTON
STEVE WRIGHT
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DAN ZEIGLER

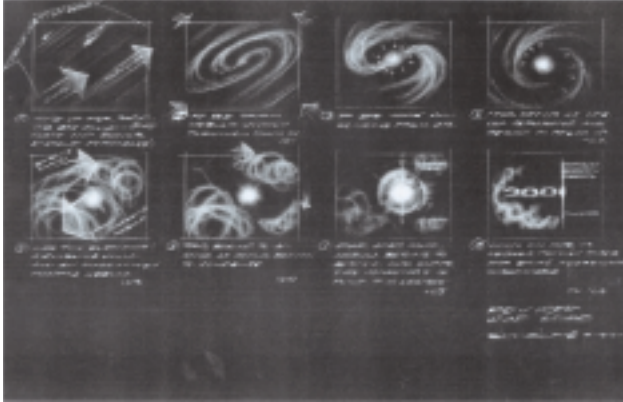
Special thanks to:
Sony Pictures Imageworks Inc.
and
Art Institute of Los Angeles
Cinesite
Industrial Light + Magic
Rhythm & Hues Studios

ELECTRONIC THEATER OPENING SEQUENCE
2001: A DIGITAL ODYSSEY
2:15

Director
JEROME CHEN

Produced by
BLUR STUDIO

The two-minute opening to the 2001 edition of the Electronic Theater is an homage to Stanley Kubrick's masterpiece with a slight SIGGRAPH twist.



Co-Director
DAVID STINNETT

Logo design and supervision
SHEENA DUGGAL

Producer
AL SHIER
Blur Studio

Logo design
MICHAEL SCHEFFE

Lead Animator
RICHARD BLUFF

Particle design and animation
THEO VANDERNOOT
SIRLING DUGUID

Animators
RICHARD BLUFF
BRANDON DAVIS
TOM DILLON
JUAN GRANJA
JON JORDAN
NOEL MCGINN
KIRBY MILLER
MARLON NOWE
DERRON ROSS
JEFF WEISEND
BILL ZAHN

Executive Producer
JACQUIE BARNBROOK

Coordinator
ERIC WITHEE

Logo typographic layout
RACHEL T. NICOLL

Logo concept art
MARZETTE BONAR

Music by:
DAVID NORLAND

Logo created on:
HP LINUX WORKSTATIONS,
PROVIDED BY HEWLETT
PACKARD COMPANY

Sound design by:
GARY ZACUTO
JAY REDD

Logo created in:
HOUDINI, DONATED BY
SIDEEFFECTS SOFTWARE.

Motion capture
JOHN BUNT

Buzz Lightyear courtesy of:
PIXAR ANIMATION
STUDIOS/DISNEY

System Administrator
DUANE POWELL

Systems support
DAEMEON NICOLAOU

Processors donated by:
INTEL CORPORATION

Storyboard Artist
VLADIMIR TODUROV

Logo sequence
SONY PICTURES
IMAGWORKS INC.

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TITLE SEQUENCES: 4D PAINTING WITH LIGHT
6:04

Producer
JACQUIE BARNBROOK
Sony Pictures Imageworks Inc.

Title Design and Supervision
SHEENA DUGGAL
Sony Pictures Imageworks Inc.

I wanted to create an environment with infinite depth, and to use this depth to represent the bounds of possibility. Usually the visual information for title design happens in one image plane. Infinite depth represents infinite possibility and with computer animation anything is possible.

The richness of color balanced with black negative space is key to the design, as is the typographic layout and the animation style.

Using particle animation to reveal the typographic elements was an obvious choice. The particle system, written by Theo Vandernoort, allowed all our animators to manipulate the motion of the particles in simple, complex, elegant, and varied ways.

In creating these titles we were free from the usual constraints of 3D feature film production. And while we still had our own in-house production deadlines to meet, as well as the deadlines for the Computer Animation Festival, it was a great opportunity for us to express ourselves creatively.

Title Sequence Design
courtesy of
SONY PICTURES
IMAGWORKS INC.,
CULVER CITY, CALIFORNIA

Concept Artist
MARZETTE BONAR

Title design
MICHAEL SHEFFE

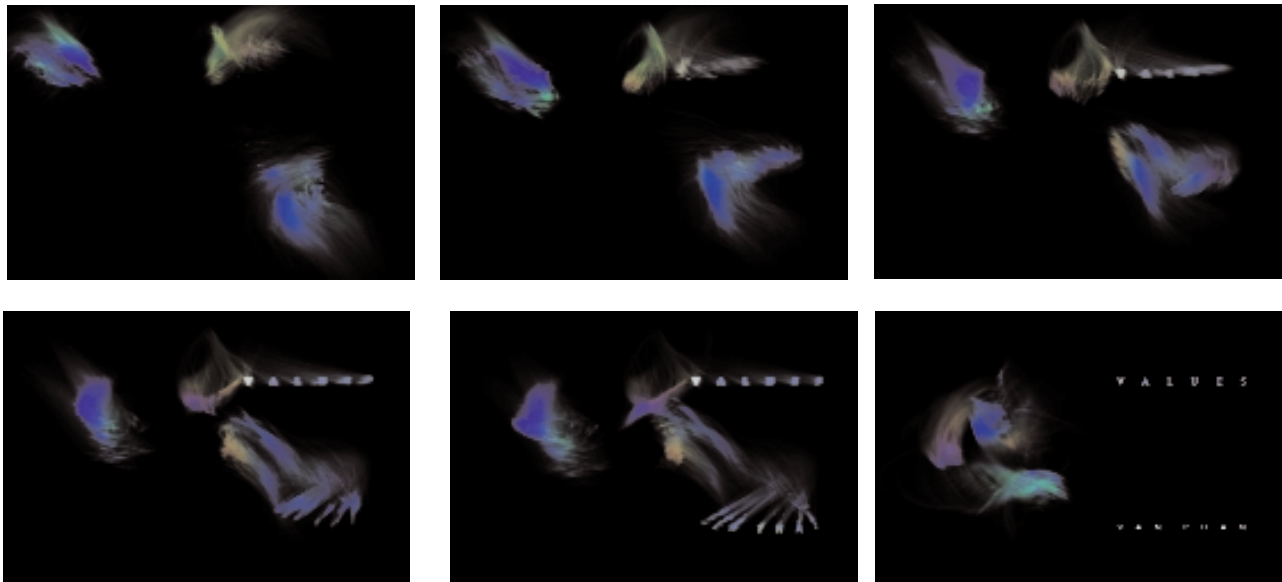
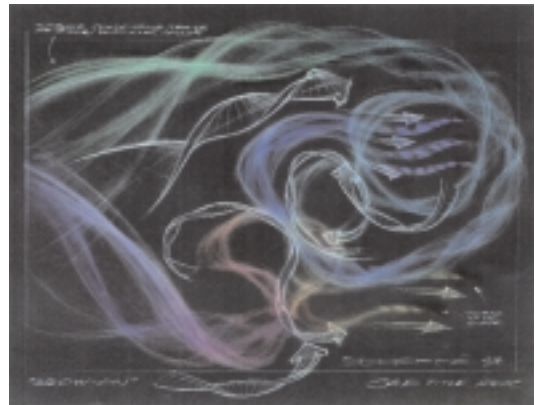
Titles and credits typographic
layout
RACHEL T. NICOLL

Particle Design
THEO VANDERNOOT

Particle animation
STIRLING DUGUID
MICHAEL EDLAND
ZSOLT KRASIK
STEVE LAVIETES
DANIELLE PLANTEC
JEFF WOLVERTON
DAN ZIEGLER

Inferno artists
SHEENA DUGGAL
DOUG FORREST
DAVID TAKAYAMA

Technical support
TED ALEXANDRE
NATHAN ERIKSEN
CREOLA JONES
ERIC WITHEE



102 DALMATIANS
2:04

Director
KEVIN LIMA

Producer
EDWARD S. FELDMAN
The Secret Lab

She's back! This time, Cruella's evil scheme is undone by Oddball, the little heroine of "102 Dalmatians." The spotless Dalmatian was produced by Disney's The Secret Lab, whose original strategy was to digitally remove spots from live action puppies and create a CG character for challenging stunt shots. However, daunting spot removal required a totally believable CG puppy for extreme close ups. Painstaking attention was paid to Oddball's face and expressive eyes. Muscle and skin techniques derived from "Dinosaur" attached muscle to bone and skin for realistic motion, and a proprietary new shader was used to finesse the puppy's fur.



Visual Effects Supervisor
JIM RYGIEL

Muscle and Skin TD
JOHN MURRAH

Co-Visual Effects Supervisor
DAN DELEEUEW

Lighting TD
ADOLPH LUSINSKY

Visual Effects Producer
LIZ RALSTON

Groomer/Texture Painter
COLIN ECKART

Digital Compositing Supervisor
BRIAN LEACH

Lead Modeler
ARDIE JOHNSON

Digital Effects Supervisor
WALLACE COLVARD

Artics and Paint Supervisor
SANDY HOUSTON

Supervising CG Animator
ROB DRESSEL

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HANK DRISKILL

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MATT O'CALLAGHAN

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PATRICK DALTON

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Muscle and Skin Supervisor
DAVID OLIVER

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AIRHEADS
0:42

Director and Producer
MIKE WHEELER
Ringling School
of Art and Design

"Airheads" depicts a relationship between creatures who are interconnected in an absurdist manner.

Student Work: Ringling School of Art and Design



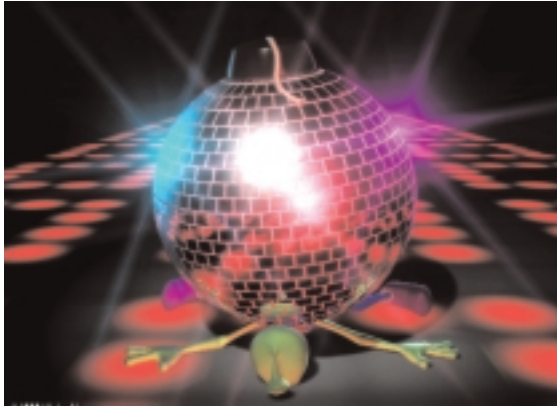
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ALIEN SONG

1:00

Director and Producer
VICTOR NAVONE
Pixar Animation Studios

This animation originated as a personal hobby but has since attained global Internet celebrity. It features the original alien character Blit Wizbok lip-synching to Gloria Gaynor's disco anthem, "I Will Survive," before meeting a sudden and ironic demise. It was created on PC and Macintosh computers using off-the-shelf software and traditional animation techniques.



Contributors
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ANJYU

2:00

Director
YASUO OHBA

Producer
YASUO OHBA
Namco Ltd.

"Anjyu" refers to composited layers of calmness. It reflects its producer's feelings and emotions during creation.



Software
ORIGINAL

Hardware
SGI OCTANE

Music
TOMOKO TATSUTA

Video Engineer
NAOHIRO SAITO

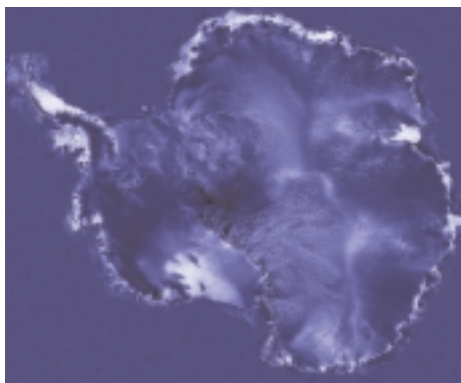
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ANTARCTICA: A FLYING TOUR
OF THE FROZEN CONTINENT
4:59

Director
ALEX KEKESI

Producer
NASA/GSFC - SCIENTIFIC
VISUALIZATION STUDIO

For 18 days during the southern hemisphere spring of 1997, a NASA-launched Canadian satellite called RADARSAT collected pieces of a puzzle that will help scientists study the most remote and inaccessible area on earth: Antarctica. Scientists have now put the puzzle pieces together to form the first high-resolution radar map of the mysterious frozen continent. This new map has answered scientist's questions about Antarctica and raised new questions about strange and fascinating features never seen before. For additional information: svs.gsfc.nasa.gov/imagewall/antarctica.html



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AP 2000
8:11

Directors
LOIC BAIL, AURELIEN
DELOUX, SABASTIEN EBZANT,
BENJAMIN LAUWICK

Producer
SUPINFOCOM

What can happen on the back of a dog?

Student Work: SUPINFOCOM

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THE BIG ONE THAT GOT AWAY
2:50

Director
JAMES TORRENS

Producer
VANCOUVER FILM SCHOOL

A short story of a sailor dreaming of himself underwater. He discovers a kissing mermaid.

Student Work: Vancouver Film School



Sound
BRETT ANTHONY

Editor
RINA GALLO

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BODY STORY
2:00

Directors
DANIEL PERCIVAL
LEANNE KLEIN

Producer
DAN GLUCKMAN
The Moving Picture Company

Commissioned by Wall To Wall Television for Channel 4, the Discovery Channel, and ITEL, "Body Story" is a series that takes the audience on six thrilling journeys inside the human body. The Moving Picture Company created 48 minutes of computer animation for six episodes (350 shots in 12 months). In-house software was written to effect an efficient method of rendering such vast amounts of geometry. Other software used: Maya, RenderMan, Shake, proprietary software, Inferno, Fire.



Post production
THE MOVING PICTURE
COMPANY

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RUSSELL APPLEFORD, ADAM
LUCAS, TONY THORNE,
KEVIN MODESTE,
RORY MARKS, MARTIN
HEIGAN, BEN SHEPERD

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GRECIAN, WILLIAM GEIGER

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ETHERINGTON, MARK
STANNARD, MARCUS MOFFAT

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THE BOOK OF POOH
5:00

Director
MITCHELL KRIEGMAN

Producer
ROBIN SEIDON
Shadow Digital LLC

“The Book of Pooh” incorporates the mesmerizing look of Bunraku, a form of Japanese puppetry that dates back 300 years, combined with real-time CG virtual sets of the entire Hundred Acre Woods.



Contributors
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DAN KLEM, LAWRENCE LITTLETON, JIM SPIELER,
HANS ANDERSON, MARK RHODES, ERICA LEVIN, ELI RAREY,
JOSH CRANE, DAVID VANEN, PETER DUFALT,
THOMAS WEBER, DALE AMAN, DAVE O'NEIL,
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BUDWEISER "COME HOME"
1:08

For the Budweiser alien "whassup" commercial, ILM's CG Commercials Department accepted the challenge of generating a CG stadium crowded with aliens and making it look real without the aid of practical references. Particles placed in the seats of the stadium were replaced by animation cycles of the aliens. Other important challenges were the high level of subtlety in the aliens' performances and the unusual design of the aliens. The proportions of their hands and the backwards articulation of their legs made it particularly tricky to create a fluid animation.

Director
RICK SCHULTZE

Producer
PAUL HILL
Industrial Light + Magic

Production Supervisor
DAVID LAMBERT

Art Director
RANDY GAUL

Animation Director
PAUL GRIFFIN

Post Supervisor
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LEANDRO ESTEBECORENA

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SUTTON, PETER CHESLOFF,
HANS UHLIG, MELVA YOUNG,
TRIPP BROWN, CEDRICK CHAN,
MARCUS STOKES, GRUE, MARC
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BRIAN GEE

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DEAN FOSTER

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ANDREW GRANT

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SANG, STEVE MCGRATH, STEVE
APLIN, SIMON CHEUNG

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LUC LONGIN

Matchmover
INGRID OVERGARD

Viewpainter/Rotoscoper
DREW KLAUSNER

Viewpainters
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HESKES, TONY HUDSON

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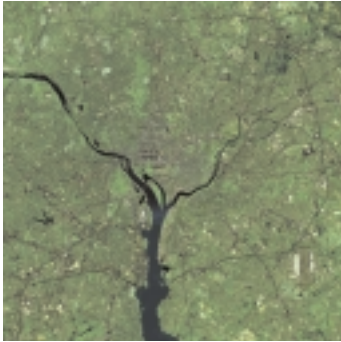
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CAPITOL ZOOM
1:45

Director
GREGORY W. SHIRAH

Producer
NASA/GSFC - SCIENTIFIC
VISUALIZATION STUDIO

“Capitol Zoom” is a seamless, cloudless, zoom from a global view to the nation’s capitol. It is composed entirely of real earth-observing satellite data: IKONOS one-meter data, Landsat7 15/30-meter data, Terra/MODIS 250-meter data, and Terra/MODIS eight-kilometer data. The visualization first zooms in seamlessly, then zooms out showing where the dataset layers reside. This visualization was created using Maya for motion control, RenderMan for rendering, IDL for pre-processing of the data, Imagine for image registration, and Photoshop for color matching.



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CARTOON NETWORK’S “QUICK DRAW EL KABONG”
1:57

Director
GEORGE EVELYN

Producer
LIZ GAZZANO
Wild Brain, Inc.

Quick Draw McGraw becomes El Kabong the Hero and fights El Bad Guy with his steel guitar. El Kabong and Babalooie ride into a garishly colored small town in Mexico that is inhabited by Day of the Dead skeleton townfolk. El Bad Guy and his cohorts are generally out to get the townfolk. El Kabong saves them and heroine Linda Neigh from certain disaster at the end of the piece, and El Bad Guy gets his just desserts. Hand-painted characters and backgrounds were scanned into the Mac and animated in AfterEffects. Music by: Calexico



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Agency Creative Director
MICHAEL OUWEELEN

Executive Producer
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Agency CD/Writer
DAVE BERG

Executive Producer/Commercials
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Agency
CARTOON NETWORK

CAST AWAY
1:59

Visual Effects Supervisor
KEN RALSTON

Executive Producer
DEBBIE DENISE
Sony Pictures Imageworks Inc.

To strand Tom Hanks on a deserted island, "Cast Away" begins with a visceral plane crash sequence incorporating CG water and waves, live action and miniature photography, and numerous subtle digital effects. On the island, Hanks surveys the landscape, a combination of live-action photography filmed in a parking lot in Malibu and a completely CG-created environment.

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JOANIE KARNOWSKI, RACHEL
T. NICOLL

Systems Engineering
Department Manager
ALBERTO VELEZ

Matte Painter
DAVID BLEICH

Senior Systems Engineer
DEAN MIYA

Additional paintings
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Hardware Engineer
MICHAEL TRUJILLO

Texture Painters
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DERRICK QUARLES

Negative line-up
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VP of Technical Operations
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HARA, GARRICK
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Executive VP and General
Manager
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Director of Interactive
Compositing
DAWN GUINTA

Additional visual effects
TRAVELLING PICTURES: CHRIS
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MARROCCO, JOHN WILLETTE,
SHEENA DUGGAL

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DAN KAUFMAN, RAJI KODJA,
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(End Credits)
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DIEP, JENNIFER GERMAN, MARK
ALAN LOSO, JEFF OLM, RICK
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Visual Effects Executive Producer
DEBBIE DENISE

Visual Effects Producer
CRYS FORSYTH-SMITH
CARI THOMAS

Bonsai Compositors

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BYUN, CLINT COLVER, COLIN
DROBNIS, MICHAEL "FFISH"
HEMSHOOT, JEP HILL, TIM
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Visual Effects Digital Production
Manager
LINDSAY BURNETT

Whale animation
DAVID SCHAUB

CG Supervisors
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GIOVANNETTI, LAYNE FRIEDMAN

Lead Match Move Artists
JEFF W. SMITH, JOSEPH THOMAS

CHAMELEON
0:25

Director
PABLO BACH
SZM Studios, GmbH

In this character animation, the challenge was to simulate the specific motion of a chameleon and create a realistic rain-forest environment.



*Creature development
and design*
SEBASTIAN FABER

Character animation
JUAN-PABLO BROCKHAUS

Animation
SEBASTIAN WEIDNER

Background design and animation, storyboarding
RÜDIGER KALTENHÜSER

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COCA COLA "CLAY DOLLS"
0:39

Director
FRANKIE CHUNG

Producer
CHU CHU CHENG
Centro Digital Pictures Ltd

This commercial, for greater Chinese market, utilised both CGI and miniature models set in a festive Chinese environment. The goal was an Asian version of the Polar Bear, but with a distinctive Chinese feel. The miniature city was shot by motion control. The CGI magical clay dolls were given a stop-motion look and feel. The whole production, including CGI, miniatures, and motion control, required four weeks of production time.

CGI software: LightWave, AfterEffects



Contributors
LEUNG YIU FUNG, KITH NG, MILES CHENG, MARVIN CHUNG,
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LAU WING SUEN, ANNA WAN, ANSON LAM, MIKE MAK,
NG MAN LUNG, JANE WONG, VINCENT CHAN, RONALD TO,
TSE KING HO, WONG CHING YEE, TSANG MAN TSUN,
PAUL DUGGAN, CECIL CHENG, FRANCO LAM

Client
COCA COLA

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COMICS TRIP
6:04

Directors
CHRISTOPHE BARNOUIN
NATHALIE BONNIN
LUC DEGARDIN

Producer
SUPINFOCOM

A little boy goes to a birthday party...with his imagination!

Student Work: SUPINFOCOM

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COMPUTER RECONSTRUCTION:
TEMPLE SITE AT PHIMAI
3:22

Director and Producer
RICHARD M. LEVY
University of Calgary

Phimai, one of the most important Khmer monuments in Thailand, is a walled complex of reconstructed temples, libraries, and ancillary structures. Reconstruction of this United Nations World Heritage site highlights the potential of computer visualization as a tool in heritage resource management. Virtual worlds offer archaeologists, historians, and museum curators a non-evasive environment for testing reconstruction scenarios, and they allow the public to learn about important historic monuments without contributing to their deterioration.

Animation and video
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CONSIDERING AN EXOTIC PET?

0:40

Director and Producer

SKYE CARLSON
Ringling School
of Art and Design

A predatory reptile makes a cute pet when it's young, but can it be fun to eat from a can instead of catching food on the hoof? And what if the owner gives up trying to care for it properly? Only really well-prepared people can take care of an adult exotic pet well enough to give it a pleasant life.

Student Work: Ringling School of Art and Design



Contact

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COURTHOUSE WITH CURVED ELEMENTS

3:04

Director and Producer

TAKEHIKO NAGAKURA
Massachusetts Institute
of Technology

This prototype is one of a series of courthouse designs created by Mies van der Rohe in the 1930s. The computer graphics production team began with the original schematic design from a plan drawing, achieved a derivative version by adding components similar to those found in other projects designed and built by the architect, and used radiosity-based software to develop a visualization. The camera moves between and around the uniquely shaped elemental walls and reveals the pleasure of scenes full of material colors and the ambiance of sunlight.



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STEPHEN DUCK

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CRIMSON RIVERS
1:07

Director
MATHIEU KASSOVITZ

Producer
LEGEND
ENTREPRISES/GAUMONT

This two-part sequence was entirely post-produced in 3D in order to create an avalanche with maximum realism. The avalanche is first seen from the outside and then from the inside, when the actors are buried. The sequence was composed from digital images composited with two stock-film shots.



SFX production
CHRISTIAN GUILLON
L'E.S.T.

SFX post production
KRAO
NICOLAS REY, JEAN-BAPTISTE LERE
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THE CROSSING GUARD
0:58

Director
JOSHUA WEST

Producer
RINGLING SCHOOL
OF ART AND DESIGN

The hero is entrusted with just one unyielding duty: to protect and preserve the lives of children. He must battle three things while endlessly fighting to perform his calling. One, he's only a crossing guard. Two, the traffic is heavy. Three, he's an armadillo.

Hardware: HP Visualize workstations
Software: Alias|Wavefront Maya 3.0, DeepPaint, Premiere

Student Work: Ringling School of Art and Design



Faculty Advisor
JIM McCAMPBELL

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DAB: INTERACTIVE HAPTIC PAINTING
WITH 3D VIRTUAL BRUSHES
5:38

Director and Producer
VINCENT SCHEIB
University of North Carolina
at Chapel Hill

This video presents the system described in the SIGGRAPH 2001 paper by the same name. It uses the traditional tools of a painter to capture the sight, touch, and feeling of the artistic painting. This allows anyone to control a virtual brush as if it were a real brush. To achieve this, we have designed a physically based, deformable, 3D brush model and bi-directional, two-layer paint model, which allow the user to intuitively produce complex brush strokes. The haptic feedback enhances the sense of realism and provides critical tactile cues.

Student Work: University of North Carolina at Chapel Hill



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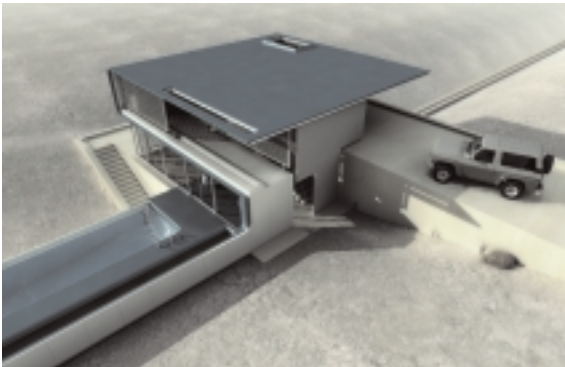
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DESERT H₂OUSE
1:58

Director
JOSEPH KOSINSKI

Producer
k+d.lab

Conceived as a critique of traditional architectural “flythroughs” and perhaps a glimpse into the future of online environments, this short film documents the investigation of an abandoned house from multiple points of view. The “handheld” camera movement was accomplished through four layers of motion-capture data via the mouse. The house was designed and modeled in form•Z, animated in 3D Studio Max, and rendered in Mental Ray. AfterEffects and Combustion were used for compositing and graphics.



Design and animation
JOSEPH KOSINSKI

Titles and graphics
DEAN DiSIMONE

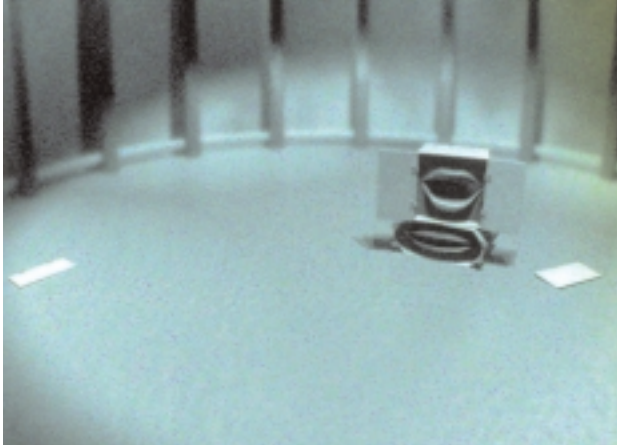
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DISTRUST OF ROMANTICA
1:28

Director and Producer
HITOSHI SUENAGA
Taiyo Kikaku Co., Ltd

Images of an old circus.



Contributors
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DR. SEUSS' HOW THE GRINCH STOLE CHRISTMAS
2:09

Visual Effects Producer
JULIAN LEVI
Digital Domain

The highly stylized "Seussian" world created for director Ron Howard's "Dr. Seuss' How The Grinch Stole Christmas" is testament to the huge strides CG has taken over the last few years. Although the film was shot entirely on stage, the winter wonderland created for the film was generated at Digital Domain. The film's visual effects challenged all the assumptions of marrying 3D CG with 2D work. This look behind the production scenes features the CG landscape and atmospherics of the film, from the opening credits to the top of Mt. Crumpit and the film's sleigh-ride finale, all created in CG.



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Compositing Supervisor
BRYAN GRILL

Character Animation
Supervisor
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Digital Set Extension
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Digital Production Manager
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BYRON WERNER

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EARLY LIGHT
7:35

Director and Producer
JOHN S. BANKS
Artek Images

Early Light is part two of a three-part series dealing with times of day and seasons. The idea is to create a living manuscript of the impressions and memories of different seasons and how they unfold. The work, which progresses from the end of winter through spring, was inspired by experiences of landscape as sensed internally and spiritually. These are interpretations of nature's emerging and shifting consciousness. The source scenes are constructed from multiple photographs and video footage. The stills are animated through mattes of generated light, wind, and noise.

Original soundtrack
FRITZ HEEDE

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ELMO'S WORLD: DIGITAL PUPPETRY ON SESAME STREET

2:49

Director and Producer

EMRE YILMAZ
SMA Video

This piece illustrates the real-time digital puppetry process that brought five furniture creatures to life for Sesame Street, and how this process fit into the production.



Contributors

SMA VIDEO, PROTOZA, SESAME WORKSHOP

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ENEMY AT THE GATES

1:59

Director and Producer

JEAN-JACQUES ANNAUD
Double Negative

Perhaps the greatest challenge that “Enemy at the Gates” presented to Double Negative was how to serve the film’s narrative flow whilst staying as faithful as possible to history. For the opening sequence, digital matte paintings depicting Stalingrad’s war-torn skyline were derived from an exhaustively researched 3D architectural library. Detailed surveys of surviving Stuka aircraft ensured an accurate portrayal of the dive-bomber attack. In the air-raid sequence, the 3D library was taken to its logical conclusion with a digital recreation of the entire ruined cityscape. Through extensive previsualisation, all visual effects work was tightly integrated with the film’s dramatic structure.



Contributors

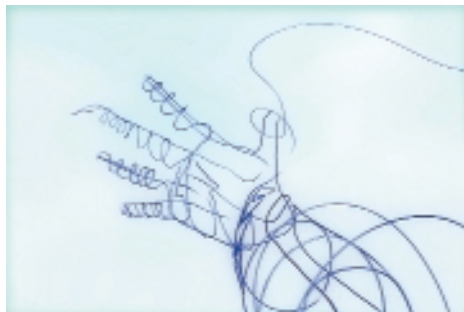
MATTHEW PLUMMER, ANTONY BLUFF, MATTHEW HOLBEN, RUDI HOLZAPFEL, JESPER KJOLSRUD, RICHARD BAIN, CHARLIE NOBLE, FRAZER CHURCHILL, PADDY EATON, RICHARD BRISCOE, ADRIAN BANTON, JOHN HARDWICK, PAUL RIDDLE, SARAH SOULSBY, JOHN MOFFATT, JODY JOHNSON, CHRIS PANTON, JULIAN MANN, ELIE JAMAA, MARTIN PRESTON, PETE BEBB, PAUL FRANKLIN, SHEILA DUNN, FREDRIK SUNDQVIST, JAKE MENGERS, ASA SVEDBERG, ANNICK HARTNEL-TOURNIER, MARTIN HILL, MIKAEL HAKANSSON, GIULIANO VIGANO, MIKE ELLIS, JIM BOWERS, DIMITRI DELACOVIAS, CIARAN CROWLEY, CLAIRE TINSLEY, HANNAH CASSELL, DALE LEWIS, JOHN SEYMOUR, IAN CHISHOLM, STEVE MACPHERSON, SIMON BURLEY, PETE HANSON, NEIL MILLER, NIGEL ARNOLD, CLAIRE MITCHELL, KERRIE GRANT, MIKE POPE, MIKAEL HAKANSSON

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ERICSSON "LINES"
0:43*Director*
ALAIN GOURRIER*Visual Effects Producer*
STEPHANIE GILGAR
Digital Domain

Beginning with a simple animated line drawing, this commercial progresses into a full human animation for Ericsson and its agency, Young & Rubicam. The spot was created principally in Maya, but the lines were rendered in Lightwave. Compositing was created in Flame.

*Visual Effects Supervisor*
ERIC BARBA*Visual Effects Coordinator*
MARK ALLEN KURTZ*Lead Character Animator*
KEITH HUGGINS*Modelers*
ELIOT CAIL-SIROTA
JARROD DAVIS*Character Animators*
PIOTR KARWAS
DANIEL LOEB
KEITH SMITH*Color and lighting*
TOM WILLIAMSON*FX Animator*
BRAD HERMAN*Technical Director*
MATTHEW FAIRCLOUGH*Data Integration*
TIM CONWAY*Matte Painter*
JOHN HART*Roto*
LAURA ORMSBY*Lead Compositor*
JEAN LUC AZZIS*Compositors*
GAVIN MILJKOVICH
KEVIN MOSELEY
CHRIS HOWARD
ROB TRENT*Art Director*
NATASHA RAND*Morph*
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EVE SOLAL
1:15

Director
MARC MIANCE

Producer
ATTITUDE STUDIO

An interview with a young French virtual personality. Eve Solal has worked for French fashion magazines, as a leading model, and as a radio DJ. Animated with motioncapture (vicon). All the 3D work was done on Maya. Proprietary software was used for skinning and facial animation.



Motion Capture Director
RÉMI BRUN

Infographie Director
BRUCE TAJTELBOM
PHILIPPE FOURNIER

Development Director
LAURENT MARTIN

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EVENTIM.DE "MOUSE/CONCERTS"
0:22

Director
PETER SPANS

Producer
MARTINIQUE SPANS
Spans & Partner GmbH

This gentle and dancing mouse, a 3D-generated character in a photorealistic look, presents the most popular styles of music and explains the "around-the-ticket service" of EVENTIM.DE.

Software: Softimage (3D), Phoenix Tools (Geo Fur), Discreet (Flame).

Hardware: SGI, Compaq, Supermicro.



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EVOLUTION OF THE UNIVERSE:
LARGE-SCALE STRUCTURE AND GALAXY FORMATION
1:06

Directors
DONNA COX, STUART LEVY,
ROBERT PATTERSON

Producers
TOM LUCAS (NOVA)
DONNA COX (VISUALIZATION)

A visual excerpt from the PBS HDTV production: "Runaway Universe", courtesy NOVA/WGBH, PBS, and Tom Lucas Productions. The adaptive mesh refinement simulation grid automatically refines into subgrids to develop small-scale features, generating over half a terabyte of data. We see gravitation forming nested hierarchies that vary by many orders of magnitude. Tiny fluctuations in the density of the early universe are amplified into a network of interconnected filaments. Condensing gas clouds give birth to new stars and merge into whirling galaxies that congregate, collide, and interact in a fiery cosmic dance.

Cosmological adaptive mesh refinement simulation
MICHAEL NORMAN, BRIAN O'SHEA, GREG BRYAN
(Grand Challenge Cosmology Consortium)

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EXIT
1:51

Director
MIKE WHITE

Producer
VANCOUVER FILM SCHOOL

A boy is set free by confronting his greatest obstacle: himself.

Student Work: Vancouver Film School



Sound
BRETT ANTHONY

Editor
RINA GALLO

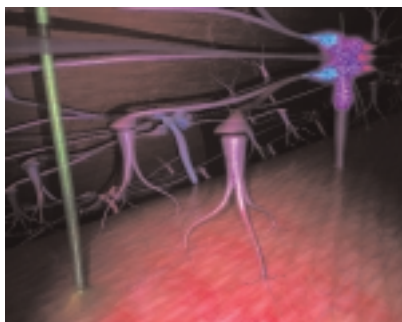
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EXPLORING SEROTONIN IN THE GI TRACT
2:53

Director
ERIC ROSEMANN

Producer
PETER KORIAN
IOMedia

IOMedia, in collaboration with Intermed Media Inc, created this interactive presentation for Novartis. The presentation, geared toward physicians, explores the relationship among serotonin, an enzyme, its receptors in the gut, and irritable bowel syndrome (IBS). The purpose of the presentation is to visually convey this complex yet fundamental mechanism, in hopes of creating new therapies for treatment of IBS. Extensive knowledge of the workings of the gastrointestinal system and its neural network was required in order to accurately depict the abstracted, microscopic spaces. All visual design, animation, compositing, editing, and interactive design were performed at IOMedia.



Contributors
GREGORY AMOS, DAN BURT, EUGENE CARROLL, ILDAR ISTARKI,
STEVEN KORIAN, BENJAMIN KOU, MARC LAFONTANT,
MICHAEL LASKER, BENJAMIN PIRT, ALLAN QUINN,
ALLYSON RIEGER, KRIS RIVEL, JUNYA SEKAI, NEMU SHINZAWA,
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f8

Jury Honors

12:50 *Animation Theater*
3:43 *Electronic Theater*

Director and Producer
JASON WEN
Crystalline Lens

In the distant future, an unstoppable alien power has genetically altered the entire population of a planet to serve as a labor force. The workers are bred to believe that their sole reason for being is the complete infrastructure buildup for an (as of yet) intangible supreme being. Amidst this scenario, one individual manages to break into a face vault to steal a particular identity and attempt a daring escape.

Software: Lightwave 5.6, Project: Messiah, AfterEffects, Premiere, Photoshop, Nuendo.

Hardware: 1 PIII 550, 1 PIII 600, 2 AMD Athlon 800s, KRK V8 speakers plus S12 subwoofer, Sennheiser K6 shotgun microphone, Sennheiser headphones, Tascam portable DAT recorder.



Screenplay
HOWARD WEN

Concept Artist
ANDREW JONES

Music
CASEY HESS, DON RELYEA

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FINAL FANTASY: THE SPIRITS WITHIN
2:58

Director
HIRONOBU SAKAGUCHI

Producer
JUN AIDA
Square USA, Inc.

Square Pictures' "Final Fantasy: The Spirits Within" defines the current state of the art in fully synthetic moviemaking. It breaks new ground by presenting a fully computer-rendered world populated not by insects, robots, or toys, but by realistic human characters who can act and directly involve the audience. Ambitious use of new modeling and procedural-animation methods, high-quality rendering, and new forms of special effects were combined with traditional character animation and innovative motion-capture technology to create a theater experience unlike anything movie audiences have seen before.



Co-Director
MOTONORI SAKAKIBARA

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224

FREWARE
6:56

Director
ALEX ORRELE

Producer
MIKE KACZMAREK
Academy of Art

Visually stunning and action packed, "Freeware" is a 3D, CG-animated thrill ride through a futuristic world. This sci-fi short follows three cyborgs on a daring race to rescue Maia, an assistant at a powerful IT company, from the grips of its evil CEO. All animation was created using Alias|Wavefronts Maya.

Student Work: Academy of Art



Supervising Technical Director
ANDRES MARTINEZ

Music
ANDREW LEUNG

Art Director
JED DIFFENDERFER

Voice of Porter
JOHN ROTHMAN

Shading Supervisor
TADAO MIHASHI
DAVID LIPTON

Voice of Angela and Maia
SABRINA SCHLUMBERGER

Animation Supervisor
KATE COLE

Voices of corp soldiers
MIKE KANTOR

Lighting Supervisors
ERIK SMITT
MARIA YERSHOVA

Animation Supervisor
GABRIEL SCHLUMBERGER

Editor
BRYAN POON

Visual Effects Supervisors
BRIAN MCCLURE
MARK MANFREY

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FRUITS OF LABOR
1:18

Director
RUDY POAT

Producer
CANDICE ALGER
Giant Studios

This quirky tale centers around a small creature, Guy, and his misadventures with an apple. The action takes place in a gorgeous, park-like setting, infused with luminous tones and rich detail. Our unfortunate little star trips on a grape and lands heads-first in an apple that is on a picnic table. His ensuing struggles and the results make for a Charlie Chaplin-like comedic sketch.



Writer
RUDY POAT

Systems administration
JEFF ASKEW, ALEX NICASSIO

CG Supervisor
SEAN POLLACK

Producer
KATHLEEN FITCH

Technical Director
BLAKE HOLLAND

Marketing and PR
RAND CABUS

Compositing and editing
RICH SUCHEVITS

Audio
DAVE HENSHAW

Animation and modeling
ANWAR AL-ASMI, KURT
JUDSON, SANTOSH KALE,
MICHAEL KENNEDY, DAVE
PENG, MARK THERRELL

Special thanks
AVID, SOFTIMAGE XSI,
THERESE BRUNO, LUDOVICK
MICHAUD, BOXX NOTHING'S
REAL SHAKE

Lighting and shading
RUDY POAT

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Texturing
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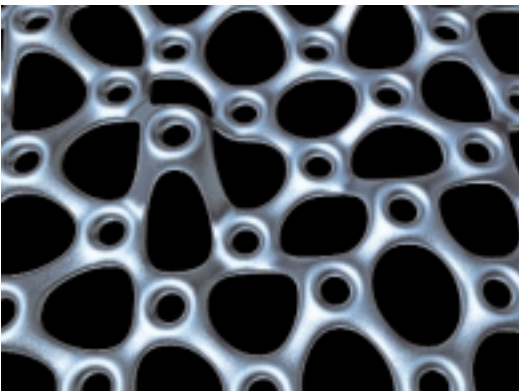
Pre-vis layout
DAVE PENG

GARDEN OF THE METAL
2:00

Directors and Producers
HITOSHI AKAYAMA
KATSUYUKI KAMEI
Japan Electronics College

The inorganic objects in this desolate space appear to move of their own volition. All motions are controlled by MEL (Maya Embedded Language) and Expression. This work was awarded an excellence prize in the non-interactive division of the 2000 4th. Agency for Cultural Affairs Media Arts Festival.

Software: Maya



Music
KOICHI NISHI

Special thanks
JAPAN ELECTRONICS COLLEGE

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GRANDMA
4:12

Director and Producer
SUNGYEON JOH
The School of the
Art Institute of Chicago

This fairy tale is based on my grandmother's experience of surviving World War II, when Japan occupied Korea. She remembers that she had to learn the Japanese language and culture, and she even had to use a Japanese name. It was like having your own body without your own spirit inside.

Software: Softimage, Media100, SGI

Student Work: The School of the Art Institute of Chicago



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HARVEY
9:32

Director
PETER McDONALD

Producers
PRISCILLA COLLINS
RACHEL ROBERTS
Australian Film, Television and
Radio School

"Harvey" combines cutting-edge digital compositing and animation techniques with a poetic metaphorical tale of loneliness and incompleteness. The main character, Harvey, has been cut brutally in half from head to groin, down the centre of his body, yet he remains very much alive. The film follows the macabre results of his obsessive relationship with his mysterious neighbour. Actors were shot with blue chroma make-up and combined with heavy Inferno matte work and 3D geometry to create fantastically surreal and macabrely horrifying images.

Student Work: Australian Film Television and Radio School



Contributors
A TEAM OF ROTOSCOPERS, 3D TRACKERS, AND COMPOSITORS FROM
AUSTRALIA, NEW ZEALAND, AND CANADA.

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HESSI JAMES
3:06

Director
JOHANNES WEILAND

Producer
MARTIN BURKERT
Filmakademie Baden-
Württemberg

In the desert of Arizona, two cowboys meet for a most unusual duel.

Software: Maya
Hardware: Dual 600-MHz Intergraph workstation
Production time: eight months

Student Work: Filmakademie Baden-Württemberg



Story
BADESALZ

Animation
JOHANNES WEILAND

Score
THOMAS MEHLHORN

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HOLLOW MAN
3:22

Director
SCOTT E. ANDERSON

Producers
SUSAN MACLEOD
BRIAN KEENEY
Sony Pictures Imageworks Inc.

“Hollow Man” was an ambitious and unusual project founded on creation of a detailed and functioning digital human. We examined this human from the inside out. Our challenge was simple in description: create a synthetic digital human capable of sharing the screen and replicating the performance of his human counterpart, actor Kevin Bacon. Creating a digital Sebastian would require our synthetic human to do everything Kevin could as well as stand in during actions that were physically impossible for Kevin (like ripping off his skin) but maintaining full interaction and performance within the film.

Contributors
KEN HAHN, WAYNE KENNEDY, MICHAEL HOBBS,
THOMAS HOLLIER, JEREMY CANTOR, BRUCE NAVSKY

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HORSES ON MARS

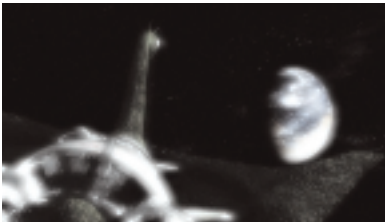
6:56

Director and Producer
ERIC ANDERSON
University of Southern California

3.6 billion years ago, a microbe blasts off its home planet propelled by a meteor impact and embarks on a journey through the inner solar system. After spending time on other worlds, it decides home is best and tries to return, only to head in the wrong direction by mistake. Unable to ever return again, it has a one last vision of home and what lies ahead for it. The imagery mimicks the look of electron microscope imagery.

Created on a Dell workstation donated by Intel. Maya and Maya Composer donated by Alias|Wavefront. RenderMan courtesy of Pixar.

Student Work: University of Southern California



Contributors

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CHRIS LEXINGTON, ISHU PATEL

Contact

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HUBERT'S BRAIN

1:15

Director
PHIL ROBINSON

Producer
NINA RAPPAPORT
Wild Brain, Inc.

Cornered by a bully on a class trip to the natural history museum, Hubert Stinkler gets locked into a laboratory where he literally stumbles onto a talking brain in a jar and gets mixed up in a bizarre tale of vivisection and mayhem. "Hubert's Brain" is a twisted buddy movie about a boy and a brain. Each goes to great lengths to prove the values of friendship. The story gives new meaning to the phrase "everybody needs some...body." "Hubert's Brain" was modeled, animated, and rendered in Maya by Alias|Wavefront and composited using Shake by Nothing Real.



Contact

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ICE AGE
3:10*Director*
CHRIS WEDGE*Producers*
LORI FORTE
JOHN DONKIN
Blue Sky Studios

"Ice Age" is a fully CGI-animated feature film from Blue Sky Studios and 20th Century Fox. Set against the onslaught of the Ice Age, the story revolves around three characters: a woolly mammoth, a sabre-tooth tiger, and a giant sloth. Together, this unlikely group of characters take an unexpected passenger, an abandoned human baby, on a journey home. Blue Sky's proprietary renderer, CGIstudio, is featured. Rendering is done on Compaq Alpha render servers. Alias|Wavefront's Maya was used for modeling and animation. Nothing Real's Shake software was used for compositing.

*Contact*

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IMAGES OF SEASONS
1:48*Director*
JYUNICHI FUJITA*Producer*
KOUICHI KAI
Video Station Q Co., Ltd

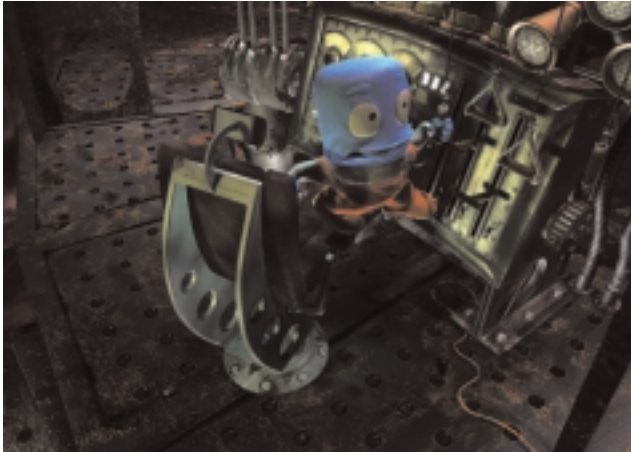
A dog, a frog, fishes, and a crow sing "wonderful world."
This piece was created using Maya and Media Illusion.

*Planner*
SEIKO NAKAMURA*VFX*
KENICHIRO TANAKA
KAZUHISA WATANABE
HIROSHI YANAI*Camera*
TAKAHIRO MATSUNAGA*Lighting*
KAZUYOSHI YAMAGUCHI*Contact*
KENICHIRO TANAKA
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IN THE BODY
1:26

Director and Producer
SAVAGE FROG!

Based on an original concept and a few rough sketches by Seth Kearsley, this short piece depicts a "body factory worker" dealing with a potential crisis. All of the modeling, animation, and rendering was done using NewTek's Lightwave 3D.



Storyboards, set modeling, texturing, lighting, camera work
KEN SULLIVAN

Character modeling and animation
PAUL DAVIES

Audio
ERIC FREEMAN

Original concept and designs
SETH KEARSLEY

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Electronic Theater

INDUSTRIAL LIGHT + MAGIC:
RESEARCH AND DEVELOPMENT 2001
2:58

Produced and edited by
COLUM SLEVIN
BRENT BOWERS
Industrial Light + Magic

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This presentation illustrates the ILM Digital Technology Group's latest groundbreaking developments. The in-house tools were used by ILM's many digital artists in the four major summer releases of 2001: "Pearl Harbor," "The Mummy Returns," "AI," and "Jurassic Park III." The tools include: rigid body dynamics for plane crashes and advanced smoke simulation ("Pearl Harbor"); advancements in motion capture technology ("The Mummy Returns," "Pearl Harbor"); new advances in flesh simulation and creature dynamics ("Jurassic Park III"); and virtual set technology developed for real-time, on-set visualization ("AI").

R&D Department

John Anderson, David Benson, Rod Bogart, David Bullock, Brice Criswell, Joel Davis, Tim Fortenberry, John Horn, Jim Hourihan, Philip Hubbard, Zoran Kacic-Alesic, Florian Kainz, Sebastian Marino, Marcus Nordenstam, Tony Pelle, Philip Peterson, Cary Phillips, Nicolas Popravka, Vishwa Ranjan, Ari Rapkin, Eric Schaffer, Steve Sullivan, Corina Wang, Jeffrey Yost

A very special thank you to all the ILM digital artists and the ILM visual effects production team for their work on: "Pearl Harbor," "The Mummy Returns," "AI," and "Jurassic Park III."

Motion capture department
SETH ROSENTHAL, MICHAEL SANDERS,
DOUG GRIFFIN, ANN MCCOLGAN

Systems R&D department
TOM DILLIGAN, ANDY HENDRICKSON

Music
GEORGE SAKELLARIOU

Also for their great help and support:
CLIFF PLUMER, YVES METRAUX, VICKI DOBBS BECK, KEVIN BARNHILL, ALAN ROSENFELD, JOSH PINES, AND CHRISTI CAROTA

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THE INSTANT-ANIMATOR MACHINE
1:38

Director and Animator
RICK MAY

A SIGGRAPH conference attendee stumbles across the next big use of motion capture technology.



Sound Design
MARC SCHAELEGEN
AMIR SOLTANI

Audio and video recording
ROBERTO ZICHE
Discreet

Contact
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IOMEGA "POOL"
0:44

Director
TRAKTOR

Visual Effects Producer
RICHARD BJORLIN
Digital Domain

This humorous spot, directed by the world-renowned Traktor (Mats Lindberg and Ulf Johansson) for Publicis and Hal Riney, features a CG animation of a pesky squid and live action of a typical American backyard in summer. Compositing was done in Flame. The spot was modeled and animated in Maya, and rendered and lit in Lightwave.



Visual Effects Supervisor
ANDRÉ BUSTANOBY

Roto
GEORGE OLIVER

Visual Effects Coordinator
JAY WORTH

Data integration
NANCY ADAMS

Lead Character Animator
PIOTR KARWAS

Lead Composer
KATIE NOOK

Modeler
MELANIE OKAMURA

Composer
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Character Animator
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Character Designer
DAVID HODGINS

Texture Artist
MARK WILSON

Fx animation, color
and lighting
DAVID LO

KAMI
6:37

Directors
LIONEL CATRY, JULIEN
CHARLES, NICOLAS LAUNAY,
OLIVIER PAUTOT

Producer
SUPINFOCOM

A piece of paper is looking for friends...

Student Work: SUPINFOCOM

Music
PATRICK GHIENNE

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KENT - TOUT EST LA
2:57

Director
FRANCOIS VOGEL

Producer
ENTROPIE

After directing the winning "Faux Plafond - Cosmic Promenade," Francois Vogel created his first music video. For Kent's "Tout Est La," he gives us a fantastic journey in the north of France. The production team used AfterEffects and Photoshop to create the set and the characters, cars, and other animations.

Post production
MIKROS IMAGE

Digital artists
FRANCOIS VOGEL, FRANCOIS COLOU

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KNITWEAR RENDERING
2:47

Director
BAINING GUO

Producer
HEUNG-YEUNG SHUM
Microsoft Research China

Rendering knitwear presents a significant challenge because of the many detailed characteristics of the material, such as the microstructure of yarn fibers, variations in stitch patterns, and shape irregularities. In our SIGGRAPH 2001 paper, we address this rendering problem by introducing a modeling primitive called the lumislice, which represents a yarn cross-section. By propagating a lumislice over a knitwear skeleton and adding soft shadow effects, we are able to synthesize realistic images of knitwear over various levels of detail while capitalizing on transparency-blending hardware. The results of our technique are exhibited in this video and compared with real footage.



Contributors
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L'AUTRE TEMPS
6:30

Directors
THOMAS DELCLOY, VANESSA
LAMBLET, CÉLINE LARDET

Producer
SUPINFOCOM

It is always difficult to write a love letter.

Student Work: SUPINFOCOM

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LE PROCESSUS
7:51

Directors
XAVIER DE L'HERMUZIERE,
PHILIPPE GRAMMATICOPOULOS

Producer
SUPINFOCOM

In this strange city, don't lose your hat...

Student Work: SUPINFOCOM

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L'ENFANT DE LA HAUTE MER
7:00

Directors
LAETITIA GABRIELLI, PIERRE
MARTEEL, MATHIEU RENOUX,
MAX TOURRET

Producer
SUPINFOCOM

As she does every morning, a little girl living in the open sea opens the windows of the town.

Student Work: SUPINFOCOM

Music
RENÉ AUBRY

Voice-over
ANNE FRÉDÉRIQUE FER

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LITTLE MISS SPIDER
2:07

Directors
DIANA WALCZAK
JEFF KLEISER

Producers
MOLLY WINDOVER
JEREMY ROSS
Kleiser-Walczak

"Little Miss Spider" is a computer-animated short based on the best-selling book by artist and author David Kirk. For Little Miss Spider's debut as an animated character, artists at Kleiser-Walczak transformed Kirk's vibrant 2D oil paintings into a stylized 3D world. The result is a storybook brought to life by warm and inviting 3D computer-generated imagery of Kirk's magical characters. Maya was used for character and scene modeling, animation, and rendering. Composer and AfterEffects were used for compositing. This project was produced for Callaway & Kirk.



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Written and created by
DAVID KIRK

Executive Producer
NICHOLAS CALLAWAY

Narrator
SUSAN SARANDON

Little Miss Spider
MARICHAL MACDONALD

Betty Beetle
JUDITH McSPADDEN

Spiderus
FRED NEWMAN

Goldfinch
JUDITH McSPADDEN

Sound Design
ROBERT KESSLER

Music
ROBERT KESSLER
AND ETHAN NEUBURG

Animation
KLEISER-WALCZAK

Executive Producer
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MICHAEL CLAUSEN

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SOUND SELLER PRODUCTIONS
BONG + DERN

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LTD.

Sound Mixer
SCOTT CRESSWELL

Callaway & Kirk Company

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President
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TOSHIYA MASUDA

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Director of Contracts
LAURIE FEIGENBAUM

*Personal Assistant
to Mr. Kirk*
DEBBIE GERI

Art Assistant
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MICHAEL PEYSER OF MIKE'S
MOVIES; JEAN FEIWEL,
BARBARA MARCUS, AND
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LUNCH
1:25*Director*
MARION GOTHIER*Producer*
MARTIN McNAMARA
De Anza College

The way to a man's heart leads through his stomach, but it can be paved with formidable roadblocks, as "Lunch"'s hero discovers to his dismay.

Software: SoftImage 3D
Hardware: Dell Dimension PC 866Mhz
Editing Station: Macintosh G4 with Final Cut Pro
Awards: Ed>Net Media Arts Award (First Prize, Computer Animation)

Student Work: De Anza College



Direction, animation, script, design, editing, sound
MARION GOTHIER

Music
ERIC McFADDEN

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LUNCH
3:14*Director*
KEITH LANGO*Producer*
KEITH LANGO
Keith Lango Animation

This energetic, comical, modern-day animated parable chronicles the lunchtime adventures of a man, who is on a tragic quest for ever-tastier treats, and his dog. It features a stylized look that mixes color and greyscale tones with a strong emphasis on simplicity. Animated in Alias|Wavefront Maya, "Lunch" is the fifth animated short film created by Keith Lango Animation.

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MANHANG (EPHEMERAL EPIPHANY)
4:56

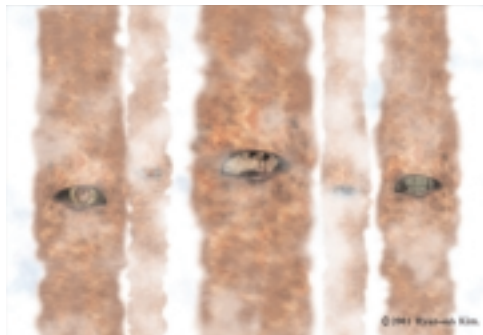
Director
HYUNSUK KIM

Producer
HYUNJEE KIM
School of Visual Arts

I tried to depict my own realization of the circle of life in this animation: the suffering after birth, the paralyzed salvation after death, and the void of meaning. The only way to escape from the circle of life is to see it and to realize it, although the realization evaporates in a moment. I wanted to see it to show it. In Chinese, the title means the way to reach true knowledge.

Software: Adobe AfterEffects, Phototshop, Boris FX,
Avid Xpress, Protocols.
Hardware: IBM

Student Work: School of Visual Arts



Contributors
RICK BARRY, BETH WARSHAFSKY, KIM LEE, DON RITTER,
CLAUDIA HERBST, DOUG VITARELLI, ERICKA BECKMAN,
LINDA LAURO-LAZIN, AND MY PARENTS

Special thanks to all professors at Pratt Institute.

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MASTER Q
3:30

Directors
EDDY WONG
HERMAN YAU

Producer
TSUI HARK
Menfond Electronic Art and
Computer Design Co. Ltd

Master Q is a legend in Chinese folk culture. Most Chinese have known this comic character since the 1960s. Now, Master Q is the subject of a 75-minute movie, the first 3D character animation in Chinese film history. The producer, Tsui Hark, said: "Master Q bought me a lot of happy and sweet memories, especially since there have been so many pressures and miseries in our society, and family problems. I would like to take this opportunity to introduce a peaceful and joyful world to the audience."



Contributors
CHINA STAR ENTERTAINMENT GROUP, ONE HUNDRED YEARS OF
FILM, FILM WORKSHOP Co. LTD, MENFOND ELECTRONIC ART
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METAL GEAR SOLID 2 SONS OF LIBERTY
10:07

Director and Producer
HIDEO KOJIMA
Konami Computer
Entertainment Japan

This work was created by editing in-game demo scenes of Konami's new PlayStation 2 game. Almost all of the scenes consist of materials rendered in real time on a home game console instead of an expensive, high-spec computer. It is our attempt to create "CG footage that you can touch" instead of "CG footage you watch."



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METROPOPULAR
4:30

Director
JONAH HALL

Producers
JASON HEAPY, LAURA
LOCKWOOD
PDI/DreamWorks

"Metropopular" is an animated short film about what the cities of America would say to one another if they could talk. Frantic about a popularity contest, they jockey for top position while arguing among themselves about why they should be "America's favorite city."



Executive Producer
JULIE HADDON

Marketing and publicity
KELLY BROWN, AMY KRIDER

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GREG SNYDER, JOHN DORST

Sound design
COLIN O'NEILL

Job TD
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MICROSOFT XBOX "TWO TO TANGO"
1:36

Director
TIM MILLER

Producers
AL SHIER
SHERRY WALLACE
Blur Studio

Microsoft came to Blur Studio seeking a cutting-edge teaser that would add impact and energy to the unveiling of its Xbox gaming console. With the visceral and energetic "Two to Tango," we were able to convey the emotion, intensity, and visual splendor that video games on Xbox will possess in the very near future.



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JEREMY COOK, TOM DILLON,
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Music
DAVID NORLAND

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MODELING & ANIMATION REEL
1:58

Director
SCOTT DOSSETT

Producer
VANCOUVER FILM SCHOOL

Another version of how the pyramids were created.

Student Work: Vancouver Film School



Sound
BRETT ANTHONY

Editor
RINA GALLO

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THE MOVING PYRAMID
9:38

Director
WOLF-RUDIGER BLOSS

Producer
CAMILLE EDEN

“The Moving Pyramid” is a charming animated short that tells the story of corruption, power, and revolution. This short combines traditional, papercut, and computer animation and was completed in two years using Softimage software. The making of “The Moving Pyramid” would not have been possible without the assistance of Industrial Light + Magic and all the animators and technical directors who volunteered their valuable time.



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NEW BAIYUN INTERNATIONAL AIRPORT,
GUANGZHOU CITY, CHINA

4:56

Animation Director
JEFF COLEMAN
URS Corporation

In 1998, URS Corporation and Parsons Aviation created a joint venture to bid for the largest new airport in China: White Cloud Airport in Guangzhou (Canton). Located in the Pearl River delta and part of a special economic zone, Guangzhou grew to 20 million people in the past 10 years. As a result, the new airport will serve passenger volumes greater than Los Angeles International Airport. Eventually, it will serve 80 million passengers per year.

The design competition began with competitors from America, England, France, and China. The winning Parsons/URS design was judged uniquely functional and beautiful, with a roadway system unlike any other airport in the world. The building flows organically and dramatically into the rolling hills and lush vegetation of Canton. Chinese see the building as a gateway into China that is at once both classical and modern. The phase-one budget is 2.5 billion dollars.

We used computer modeling and imaging during the competition and after winning the bid. Illustrating the project helped the Chinese accept and understand the design. Computer modeling enabled description of the building geometry, which curves in 3D. URS's Columbus, Ohio office executed modeling and design completely in form•Z with technical support from Parsons and URS groups in Seattle and Tampa.

In 2000, the Chinese needed a public relations tool to promote this completely new airport to airline customers worldwide. Derong Liu, chief architect for Parsons, and Mark Molen, design director for URS, decided that an animation would be the best promotional tool. Mark created an initial animation of the building exterior, which the client loved. Derong quickly wrote scripts in Chinese and English for the project.

The animation staff then created 3DStudio interior models and used the Columbus exterior model. The resulting seven-minute video illustrates departing passengers at curbside and arriving passengers going through baggage claim. Models were created and rendered using five-dual 933 PCs. The animation and rendering of 10,800 frames took six weeks.



Storyboard
DERONG LIU

Architect
MARK MOLEN

Architect
APRIL YANG

Animation staff
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CURT COLEMAN
CHI TRAN
JIM WINBORG
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NEW WORLD COMPUTING CINEMATIC TEAM
6:33

Director
JOHN SLOWSKY

Producer
MARK CALDWELL
New World Computing

The New World Computing Cinematic Team is dedicated to the idea that, as a species, we are either inherent storytellers or we hunger to experience the rich tapestry woven by visual artisans. So prevalent is this drive that there is room for both the industrial entertainment machines and the village storytellers. We are only seven, but each of us brings to the table one exquisite spice to mix with our diligence and passion into a feast that we humbly lay before our families, friends, and neighbors.



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NORFOLK SOUTHERN "CHASM"
0:38

Director
DAVID DRYER

Producer
JIM SHIPPEE
Rhythm & Hues Studios

"Chasm" depicts two CG cities on either side of a rift: one represents the brick-and-mortar business world, and the other represents e-commerce, with Norfolk Southern trains effortlessly spanning the gap between. The detail and design of the worlds created a compelling hyper-realistic visual density unusual in commercial CGI, with some shots exceeding 2.5 million polygons. To aid in integrating live talent, the spot was choreographed prior to shooting and played back on set with overlaid blue-screened actors and extras.



Executive Producer
CARLTON ASHLEY

City designs
GARY MONTALBANO

CG Production
RHYTHM & HUES STUDIOS

Modeling
TEX KADANOVA

CG Director
JOHN-MARK AUSTIN

Matte painting
LOPSIE CHAN SCHWARTZ

Executive Producer
MICHAEL CRAPSER

Flame Artist
COLLEEN BRATTESANI

Head of CG Production
IAN DAWSON

Matte and roto
TONY BARAZZA

Producer
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NOSTALGIA
1:12

Directors and Producers
MOMOKO DAIGO
TAKASHI YAMAGUCHI
Namco Limited

One summer's day, she was visiting her old hometown, where she spent so much time as a child. The town was quiet. It was almost as if nothing had changed. Overcome by nostalgia, she began to recall fragments of her past.

The main character's facial expressions were animated and achieved with the aid of optical motion-capture technology. The background scenery, a street lined with shops and houses in a quiet country town, was created entirely using computer graphics.



Music

MINAMO TAKAHASHI
JUNICHI NAKATSURU

Motion capture and character setup support
NAMCO C-TEAM, TETSUYA TAT WAKAO

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O BROTHER, WHERE ART THOU?
1:56

Based on Homer's *Odyssey* and conceived as a humorous homage to film director Preston Sturges' "Sullivan's Travels," this cock-eyed American ode by the Coen brothers is a picaresque "convicts-on-the-run," character-driven comedy through the mid-1930s Mississippi Delta. This excerpt, entirely driven by visual effects, features a blend of live-action plates with CG water, as well as computer-generated animals, flooded landscapes, floating barns and trees, musical instruments, and multiple cans of Dapper Dan pomade.



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OBLIVIOUS
0:47

Director
ALEX WHITNEY

Producer
RINGLING SCHOOL
OF ART AND DESIGN

We are unaware of other worlds that exist and how our actions affect the inhabitants of those worlds. This piece was created using Maya, Deep Paint 3D, and Shake. Hardware: HP Visualize Workstation, SGI 320 Visual Workstation

Student Work: Ringling School of Art and Design



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ODDWorld: MUNCH'S ODDYSEE
6:53

Director
LORNE LANNING

Producer, Executive Producer
SHERRY McKENNA
Oddworld Inhabitants

How would you feel if you broke your leg in a bear trap, were abducted by soul less scientists, had an alien device implanted in your skull, and found out your race had been hunted to extinction? Meet Munch, the hero of Oddworld's oddest opus yet! Captured by sadistic Vykker neurosurgeons, Munch and his fellow lab animals must escape Vykker's Labs Pharmaceutical Corporation before they are processed into a thousand tiny pain relievers. 3D models, animation, and rendering were created using Maya and composited using Shake. Water was created using Arete Nature F/X, and Paraform was used for scanned data.



Assistant Director
CHRIS ULM

Sound Designer/Composer
MICHAEL BROSS

Producers
SHANE KELLER, JOSH HEEREN

Tech Ops
ELI RODRIGUEZ, RANDY
HICKS, DAVID ROTHMAN,
ERIK TWEEDIE

Senior Production Designer
FARZAD VARAHRAMYAN

Production design
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OJO POR OJO
2:24

Director
ALEJANDRO MELUDIS

Producer
LENIN LEON
Arte y Parte

This tribute to the eye was made for the opening show of a national art festival in México. We used several kinds of eyes for which there are words in Spanish, such as the eye of a hurricane, or the eye of a needle, but not a human eye. Software: Adobe photoshop, Adobe Illustrator, Media 100. Hardware: Macintosh G4.



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OUR LADY PEACE "IN REPAIR"
4:17

Director
OLI GOLDSMITH

Producer
NATHON GUNN
Bitcasters Inc

By innovating new production techniques to specially treat the video's live-action scenes, Oli Goldsmith has combined film footage with animated characters from his paintings in a surrealist 2.5-dimensional world. Based on Our Lady Peace's concepts for their album "Spiritual Machines," the video explores organic and mechanical narratives inspired by Ray Kurzweil's writings.



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PASTA FOR WAR
3:27

Director and Producer
ZACH SCHLAPPI

Dictator
ROBERT PROSKY

“Pasta for War” satirizes a 1930s propaganda newsreel. It begins with fresh pasta marching towards the podium. There, the Great Dictator orates. A young recruit envisions formations of dive-bombing bow-ties flying above columns of ravioli tanks, while he wades through marinara sauce to battle against utensils at the bottom of the sink. The realization that he may die ends his fantasy, but his comrades march ever forward to their impending doom: a towering pot of boiling water.



Toni
AARON McMASTERS

Rigatoni 1
BRIAN GARRIGAN

Rigatoni 2
FLEUR LEVITZ

Rigatoni 3
ZACH SCHLAPPI

Sound
STEFAN PROSKY

*Music performed by the Massed Bands of the British Army
Released on Beulah*

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PEARL HARBOR
2:10*Visual Effects Supervisor*
ERIC BREVIG*Visual Effects Executive
Producer*
NED GORMAN
Industrial Light + Magic

For "Pearl Harbor," ILM created vistas of period battleships under attack and CG planes in combat. Simulation software was written for the huge billowing smoke from destroyed battleships, and new rigid-body software was developed for the destruction of planes and ships. Other developments included: new environmental lighting techniques to enhance the realism of rendered planes and ships; new crowd and sailor placement software using motion capture, including data from a daylight motion-capture solution; and new match-animation tools to deal with complex plates and set extension needs.

*Visual Effects
Co-Supervisor*
ED HIRSH*Visual Effects
Associate Supervisor*
BEN SNOW*Visual Effects
Producer*
JANET LEWIN*Computer Graphics
Supervisor*
MICHAEL BAUER*Compositing
Supervisor*
MARSHALL KRASSER*Visual Effects Art
Director*
ALEX JAEGER*CG Sequence
Supervisors*
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HAYDEN LANDIS
DAVID HORSLEY*Animation Leads*
SCOTT BENZA, SCOTT
WIRTZ*Physical Model
Supervisor*
MICHAEL LYNCH*Digital Artists*
MIMI ABERS, SHADI
ALMASSIZADEH,
AL BAILEY,JEFFREY BENEDICT,
ARON BONAR,
PAT BRENNAN,CATHY BURROW,
BRIAN CONNOR,
RYAN COOK,KATHY DAVIDSON,
VINCE DE QUATTRO,
EMMET DOYLE,RUSSELL EARL,
RAUL ESSIG,
KELLY FISCHER,JIM GREEN,
CRAIG HAMMACK,
JOHN HELMS, DORNEHUEBLER, PEG
HUNTER, SAMSON
KAO, HILMAR KOCH,MOHEN LEO,
MIKE LUDLAM,
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E. SMITH, MARK
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Viewpainter*
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Matchmover*
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BLACKMAN,
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DON BIES, PHILBROTHERTON, JEFF
BREWER, FON
DAVIS, THOMASEHLIN, DAVID
FOGLER, MIKE
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JOBE, SCOTT
MCNAMARA,WENDY NORTON,
DAVID MURPHY,
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PETERSON, TONY
PRECIADO,CHRISTOPHER
REED, KIM SMITH,
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ROBERT CLOT*Pyro effects*
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GAMBITTA,
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PERESTROIKA

2:22

Director and Producer
ALEXANDROVICH FRIDERICI
Evileye Animation

“Perestroika” (pur es troiku) was created as a representation of sudden change. Though its Russian political references are evident, in this piece, “perestroika,” meaning restructuring, is represented in the more literal sense of the word. It is an individual’s ability to change what he once believed to be something else. Aided by his aboriginal self, his actions threaten to alter the balance of current reality.

Software: Newtek Lightwave 6.5, Adobe Photoshop 6, Adobe AfterEffects 4.1, Sasquatch

Student Work; Evileye Animation

*Contact*

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250

PIPE DREAM

3:30

Director and Producer
WAYNE LYTLE
Animusic

In this single from a video album, all instruments are played by steel balls shot out of PVC tubing. Two years in the making, the full video album is comprised of seven pieces, each generated by a completely different instrument configuration. Proprietary animation software analyzes the music and automatically drives the movement of the instruments for highly accurate and efficient animation. Essentially no traditional keyframing is used. The DVD version of this video album is scheduled for release in late summer 2001. The album was created by the producer of the original musical fountain in “More Bells and Whistles,” SIGGRAPH 90.

Contributors
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THE PIT 2
1:21

Director
TIM MILLER

Producer
AL SHIER
Blur Studio

This second installment in the Pit series features an out-of-touch executive telling a clearly frustrated artist about how upper management would like to improve their product marketing.



Animation Team
TOM DILLON, JON JORDAN,
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251

PLATONIC CHAIN
4:00

Director
JUN ASAKAWA

Producers
HIROSHI KITAHARA
NANAE FUJISAWA
HIROYO OSAWA
ACiD inc.

This series of futuristic stories, written by Kozy Watanabe, narrates the life of teenage Japanese girls with broadband mobile phones. We were able to produce Japanese-style animation by using a full 3D computer-graphics approach. We used various animation software, including 3D Studio Max, Ink'n Paint (courtesy of Blur Studio), Discreet combustion, and Adobe AfterEffects, running on dual Pentium3 PCs. Optical-based motion capture systems were used to animate the CG characters.



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PUPPET
2:25

Director
RAF ANZOVIN

Producer
STEVE ANZOVIN
Anzovin Studio

A puppet-master struggles with a marionette who won't be jerked around. This short was originally conceived as a technical test for new character skeleton setup, nonlinear animation, a spinning light rig, and multipass rendering techniques in Hash's Animation: Master 2000 (v8.5) software.



Animators
RAF ANZOVIN
DAVE BOUTILIER
DEB OSGOOD
BILL YOUNG

Lighting
BILL YOUNG

Music
"FUNERAL MARCH OF A MARIONETTE," BY CHARLES GOUNOD,
PERFORMED BY THE ORCHESTRA OF THE ROYAL OPERA HOUSE,
COVENT GARDEN, CONDUCTED BY ALEXANDER GIBSON. COURTESY
UCG/UMG.

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RED PLANET: AMEE
1:21

Director
ANTHONY HOFFMAN

Producer
CINESITE

AMEE is the attitude-rich, computer-generated villain and star of this film. Cinesite's artists modeled, animated, textured, lit, and composited AMEE into a menacing, taunting feline successor to HAL.



Visual effects and AMEE
character animation
CINESITE

Visual Effects Supervisor
THOMAS J. SMITH

Visual Effects Producer
SCOTT DOUGHERTY

Animation Director
STEVE MARKOWSKI

CG Supervisor
SERGE SRETSCHINKY

Composite Supervisors
MARK LEWIS, JERRY SELLS

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JEFF BAKSINSKI

Paint Supervisor
CORINNE POOLER

Rotoscope Supervisor
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CASPARY, JOHN WALLACE

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OSCAR CASTILLO

CG terrain
RAM SAMPATH

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MOORE

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CTO
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DEVRIENDT, BILL MURPHY,
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CURTIS LINDERSMITH

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RENDERING TRANSLUCENT MATERIALS
2:36

Director
HENRIK WANN JENSEN

Producer
STEVE MARSCHNER
Stanford University

Translucent materials, such as marble, milk, and skin have a soft and smooth appearance that cannot be simulated with standard lighting models. This animation demonstrates a new practical model for correctly rendering translucency and shows how it can eliminate the traditional hard computer graphics look. Our model is described in detail in the SIGGRAPH 2001 paper "A Practical Model for Subsurface Light Transport."



Contributors
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RICKY MARTIN: "PRIVATE EMOTION"
4:00

Director
FRANCIS LAWRENCE

Producer
HEATHER HELLER
Pixel Envy, Inc.

In this music video, the entire set is CG, but it looks so real that it is impossible to tell.



Artistic design
COLIN STRAUSE

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ROBBIE WILLIAMS: "LET LOVE BE YOUR ENERGY"
6:32

In Robbie's first animated promo, we see him running through various landscapes from seashores to cities and, in what some might call art imitating life, "brief encounters" with glamorous women. Created with Lightwave 6.5 and Messiah 1.57, the promo was composited in AfterEffects. The Lightwave Cell Shader was applied to the 3D models to achieve a two-dimensional effect. Editing was done with Matrox Digisuite using In-Sync's Speed razor and AfterEffects.



Director
OLLY REID

Producers
ED BIGNELL
CARA SPELLER
Passion Pictures

Artiste
ROBBIE WILLIAMS

Lighting and compositing
STUART HALL, TIM KIRKBY,
ROBIN KONIECZNY, MATT
WESTRUP

Record company
EMI

Music management
TIM CLARK, DAVID
ENTHOVEN, CARRIE SUTTON
IE Music

Editors
KEVAN O'BRIEN, NIGEL
KARIKARI

Executive Producer
ANDREW RUHEMANN

Inferno
IAN RICHARDSON
Glassworks

Technical Director
MARK WILSON

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RULE-BASED DYNAMIC SIMULATION
FOR "WAVE OF DEATH"
1:14

Production of this fully computer-generated dam-breaching sequence was achieved with a rule-based dynamic system, which differs significantly from conventional keyframe animation or pure dynamic simulation. Instead of separately animating each chunk, fragment, or element of dust, water, or mist, software was developed to combine all dynamic behavior, interactions, and dependencies in one big rule system. With rule-based dynamic simulation, control of the whole visual effect sequence was extremely simplified, which dramatically reduced the amount of work.



Director
FREDERIK STEINER

Producer
JENS FOLGER
CA Scanline Production GmbH

Contributors
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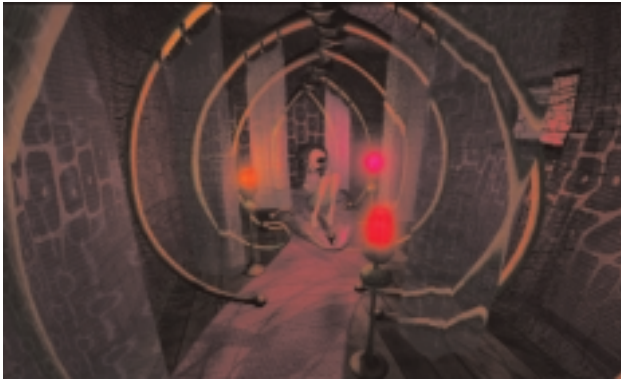
SAE (A BIRD)
13:10

Director
BYUNG-SUE KIM

Producer
KOREA NATIONAL
UNIVERSITY OF ARTS

A 3D animation about two miserable pure souls who live in an old woman's belly. Software: Softimage, Photoshop, and Flame.

Student Work: Korea National University of Arts



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SAY CHEESE
1:35

Director
DEREK FLOOD

Producer
DAS WERK AG

In this story of greed, gluttony, and vanity, a mouse gets in trouble when he eats so much cheese that he can't move. When the cat appears, his troubles really begin. Software: Maya, Shake.



Animation and story
DEREK FLOOD

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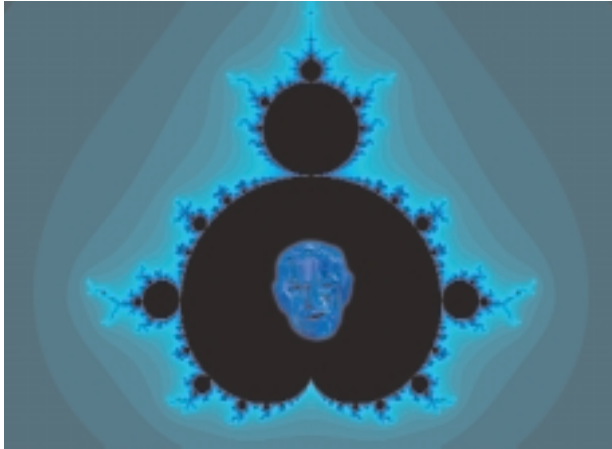
THE SEARCH FOR INFINITY
2:39

Director
RON FRICKE

Producer
CAMILLE CELLUCCI
Cinesite

Executive Producer
JEFFREY W. KIRSCH

Arthur C. Clarke narrates this extraordinary journey through a Mandelbrot set as he describes our quest for infinity. Originally produced as the opening for an Imax feature by the same name, this psychedelic voyage shows us that mathematics and art are synonymous and beautiful.



Art Director
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In-House Producer
CAROLE COWLEY

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MICHAEL STEARNS

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SEQUENCE FROM "MONSTERS, INC."
3:29

Director
PETE DOCTER

Producer
DARLA ANDERSON
Pixar Animation Studios

This sequence from Disney and Pixar's "Monsters, Inc." is a continuous progression starting with storyboards, through final lighting, showing our newest cloth and long fur technology. "Monsters, Inc." is the largest scare factory in the monster world. Sulley is one of its top Scarers and Mike is his Scare Assistant. Their job is to gather the kids' screams that power the monster world. When Sulley accidentally lets a little girl, Boo, into Monstropolis, life turns upside down. While trying to get Boo home, they make a discovery that changes the monster world forever.

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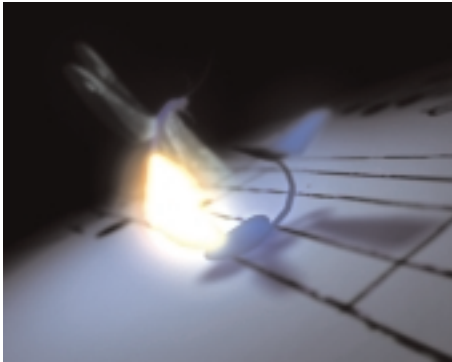
SERENADE
2:49

Directors
JASON JUDY, PAUL DOWNS,
MIKE BERGER

Producer
RINGLING SCHOOL
OF ART AND DESIGN

Fireflies lead us into an enchanting forest, where a magnificent tree is hosting this evening's serenade. At the foot of the tree, a composer adds the final notes to his midnight symphony. Among the branches, a worker diligently carves an instrument from the wood around him. Under the moonlight, the piece intensifies as we join the conductor and his orchestra above the canopy of leaves.

Student Work: Ringling School of Art and Design



Music
ARAM KHACHATURIAN

Cello
LAUREN BAIR

Faculty Advisor
JIM McCAMPBELL

Technical genius
KARISSA MILLER

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SHREK
3:30

Directors
ANDREW ADAMSON
VICKY JENSON

Producers
ARON WARNER
JOHN H. WILLIAMS
JEFFREY KATZENBERG
PDI/DreamWorks

One of the most visually rich and technically challenging computer-animated films to date, "Shrek" was created by more than 300 artists, computer animators, software developers, and engineers at PDI/DreamWorks who spent almost three years completing the film. "Shrek" features technical breakthroughs in the areas of realistic humans (facial animation, clothing, hair, and fur), natural environments (forests, trees, and foliage), and special effects (CG liquids such as water, mud, beer, and milk along with CG fire and lava).



Editor
SIM EVAN-JONES

Production Designer
JAMES HEGEDUS

Visual Effects Supervisor
KEN BIELENBERG

Supervising Animator
RAMAN HUI

Associate Producer
JANE HARTWELL

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SILHOUETTE
3:03

Directors
AMBER RUDOLPH
TONYA NOERR

Producer
RINGLING SCHOOL
OF ART AND DESIGN

“Silhouette” is about a toy ballerina who comes to life when her music box opens. As she continues to dance, her imagination runs wild. Is the shadow real, or just a figment of her imagination? This is the question that the ballerina has to ask herself.

Software: Alias/Wavefront Maya 3.0, Nothing Real Shake

Student Work: Ringling School of Art and Design



Music
BEETHOVEN’S 6TH SYMPHONY IN F MAJOR, 4TH MOVEMENT.
COURTESY OF PROMUSIC.

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STEAM PUNK “GO ROUND”
1:00

Director
HIROYUKI NAKAO

Producer
HIRONORI TERAI
P.I.C.S.

A steam chef visits a sushi restaurant and tries to select a plate of his favorite tuna from a revolving table.



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STOP-MOTION VERSUS CG
0:44

Director
KYLE BELL

Producer
ERIK VIGNAU
Will Vinton Studios

Contrary to its title, "Stop-Motion Versus CG" employs harmony rather than conflict. It is a collaboration of disciplines and formats: stop-motion, CG, high-definition video, and live-action film brought together for laughs.

Software: Maya, AfterEffects, Jenoptic MF
Hardware: 35mm Mitchell stop-motion camera,
Eyelike digital camera



Director and Animator
KYLE BELL

TD
ALEX INMAN

FX Supervisor and Composer
NOAH KLABUNDE

Electronic Imaging Engineer
GARY McROBERT

DP
MARK IFORT

Digital image guy
DEAN KOENIG

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TOBY ETHRIDGE

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DERICK CARLIN

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CHARLIE REWALT

Contact
KYLE BELL

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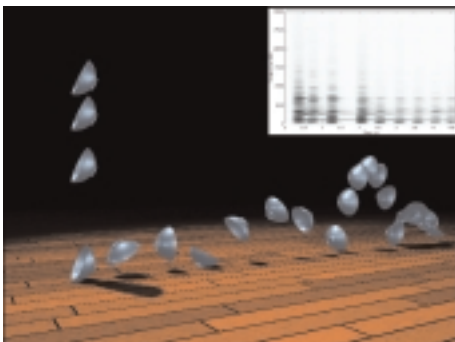
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Camera Assistant
AUDREY MOORE

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SYNTHESIZING SOUNDS
FROM PHYSICALLY BASED MOTION
1:15

This video demonstrates our technique for approximating the sounds that are generated by the motions of solid objects. As the motions of the objects are computed, their surfaces are analyzed to determine how the motion will induce acoustic pressure waves in the surrounding medium. Our technique computes the propagation of those waves to the listener and then uses the results to generate sounds corresponding to the behavior of the simulated objects. Further details are provided in our paper in the *SIGGRAPH 2001 Proceedings*.



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TABASCO COMMERCIALS
1:10

Director
BODO KELLER

Producer
UPSTART! Filmproduktion
GmbH

Four commercials for Tabasco green pepper sauce produced in film resolution for cinema release in Europe. Character modeling and animation: 3D Studio Max with Character Studio. Compositing of various rendered layers: AfterEffects and Shake.



Contributors
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TIME OUT
1:10

Director
JOHN WONG

Producer
VANCOUVER FILM SCHOOL

A little boy has been given a “time out” in the corner, when he gets an idea to become a “SuperHero.” He creates havoc around the house, unaware that he will encounter his greatest weakness.

Student Work: Vancouver Film School



Sound
BRETT ANTHONY

Editor
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TRICK OR TREATS
5:18

Directors
CANDICE CLEMENCET
JEAN DOMINIQUE FIEVET

Producer
SUPINFOCOM

It is Halloween night, and kids are looking for candies.

Student Work: SUPINFOCOM

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THE TURING TEST
5:27

Director and Producer
MARK SAGAR
LifeFX Networks, Inc.

Artificial intelligence computer algorithms compete with each other in a game show setting where they attempt to pass the Turing test and gain acceptance as human. This work demonstrates new animation techniques. The 3D digital actors have been designed to perform and render in real time over the Internet and were recorded to video directly from the display of a standard PC. The characters' dialogue was created from text using text-to-speech engine or synchronized to real-voice audio clips. The digital actors were "directed" using a mark-up language to describe behaviors and expressions, with real-time interactive playback.

Software: LifeFX

Hardware: PC, graphics card



Contributors
MARK SAGAR, PAUL CHARETTE, GREG DeCAMP,
BRAD KALINOSKI, JOHN WALLACE, ALEXANDER POUCHKAREV,
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UNEXPECTED PERSPECTIVES
1:14

Director
SCOTT DICKEY

Producer
RINGLING SCHOOL
OF ART AND DESIGN

In a beautiful world of blue flowers, an organic character who is separated from the environment operates his harvesting machine. After an unexpected event, he must realize new insights about the outside world.

Student Work: Ringling School of Art and Design



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UNTIL WOLFY MET HELGA
1:25

Director
MOOKIE WEISBROD

Producer
RINGLING SCHOOL
OF ART AND DESIGN

Wolfgang and Helga are two figurines living in a brand new cuckoo clock. As the clock strikes the hour, it's time for them to meet. Both are very excited, until Wolffy meets Helga.

Student Work: Ringling School of Art and Design



Music and sound design
MERT IHSAN BALTA

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VALUES
Best Animated Short
 4:32

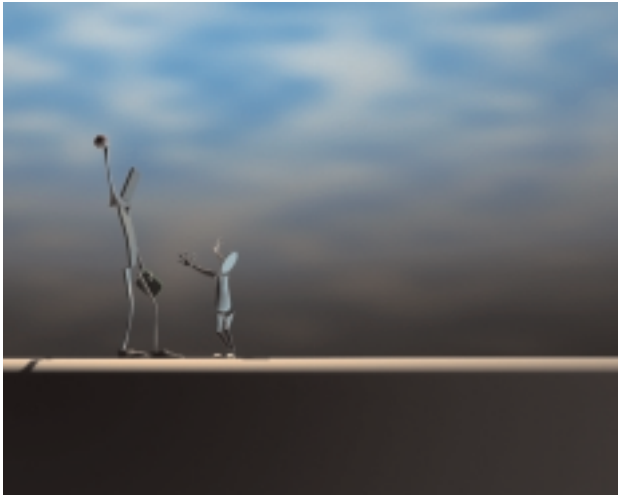
*Director, Producer,
 and Animator*
 VAN PHAN
 Cinema-Television School
 University of Southern California

This animated film was inspired by the filmmaker's relationship with his late father. In a minimalist manner, using primitive shapes such as spheres, planes and cylinders, the filmmaker tells a story about parent-child relationships. By simplifying the character design and locking the camera to primarily a master shot, the filmmaker tells his story mainly through the acting and lighting. Because the elements are kept to the minimum, viewers can project more of their own experiences into the story. Less can sometimes be more.

Produced at the USC Cinema-Television School Division of Animation and Digital Arts, this thesis film was inspired by the filmmaker's relationship with his late father. In a minimalist manner, using primitive shapes made out of spheres, planes, and cylinders, "Values" tells a story about family relationships. Story elements are kept to a minimum. Characters are reduced to faceless icons. The camera is locked to primarily a master shot. And audio is limited to music only. It was hoped that this simple approach would draw the audience closer into the story. Less can sometimes be more.

The film was animated and modeled using Maya. Each frame was rendered using the Maya renderer at D1 resolution and resized to 2k for film exposure. Everything was textured procedurally within Maya. Alias|Wavefront Composer was used for compositing and editing. A Dell Intel Pentium III computer was used for rendering.

Student Work: University of Southern California



Composer
 MICHAEL SEAN COLIN

Production Manager
 MAR ELEFANO

Special Thanks
 MY FAMILY AND FRIENDS,
 KHANH PHAN, ALIAS|WAVEFRONT,
 NOEL GOIN, MAI DOAN, EASTMAN KODAK,
 KATHY SMITH, MITCH COCKERHAM,
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 BRETT RUTLAND, LAN PHAN,
 VIBEKE SORENSEN, SGI,
 ERIC ARMSTRONG, KAREN KNIGHT,
 RICHARD WEINBERG, HENRY ANDERSON,
 SERGIO RAMIREZ, ERIC FURIE,
 PAULINE TS'O

Dedicated to Nguyen Phan

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VEL SATIS EN CAPITALE
5:42

Director
PIERRE QUATREFAGES

Producer
OLIVIER BOULANGER
Renault

Integrating 3D virtual cars in a real environment is a powerful and essential tool for the everyday design process at Renault. Using similar techniques, this piece integrates the new Renault car, Vel Satis, into Paris. The city is lighted with a touch of magic. This animated short was produced using Lightware 5.6 and Adobe Photoshop. It was edited with Avid's MCXpress at TVI Community College in Albuquerque, New Mexico.



Contributors
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265

WALK
5:35

Director and Producer
JEFF DREW
Jeff Drew Pictures

Join Edgar, the man, and Gigi, the dog, on a walk through a wacky cut-and-paste world filled with drunk clowns, smoking grandmas, and sidewalk preachers. Who knows what may be down the next block, or what lies in store for Gigi at the end of the walk? This animated short was produced using Lightware 5.6 and Adobe Photoshop. It was edited with Avid's MCXpress at TVI Community College in Albuquerque, New Mexico.

Student Work: Jeff Drew Pictures



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THE WARDROBE
2:02

Director and Producer
MARIA LEE
Academy of Art College

“The Wardrobe” is a story about the meaning of love and sentiments in our post-modern world. Inspired by René Magritte’s surrealistic approach to visual images, Mikhail Bakhtin’s writings on Dialogism, and Jean Baudrillard’s ideas on simulations, “The Wardrobe” evokes mysteries through poetic combination of ordinary objects. Its intent is to activate discussion of ideas and values of love by exploring these meanings on various levels. What is real love? “The Wardrobe” indicates that the meaning of love and sentiment is elusive and fabricated.

Student Work: Academy of Art College



Original music
BRUCE CHRISTIAN BENNETT

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WHERE IS FRANK?
4:05

Director
ANGELA JEDEK

Producer
FILMAKADEMIE BADEN-
WÜRTTEMBERG

Once upon a time from different perspectives, or a story of cool cowboys, a fly, and the ride of things. Hand-drawn textures (Indian ink): Maya 3.0, NT, Adobe Photoshop 4.0.

Student Work: Filmakademie Baden-Württemberg



DoP
FRANK WURSTER

Animators
JENS HANSEN, MARTIN BREIDT

Plug-in programming
HARALD GRÜNBELE

Music
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WILD JUNGLE - MOTION RIDE
3:45

Director
SHINJI TORIGOE

Producer
SHINGO YASUMARU
SEGA Corporation

A jungle tour filled with downhill bumps, cliff hangers, bridge-collapsing moments, the discovery of an ancient burial site, and an unpredictable ending turns this into one wacky adventure. "Wild Jungle" is a twelve-person motion ride with a 180-degree wrap-around screen seamlessly projected by three CRT projectors at 60 frames per second.



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WING 2001
1:37

Director
KEI YOSHIMIZU

Producer
YUSAKU TOYOSHIMA
Digital Frontier Corporation

A TV commercial for a new brassiere. The character's name is "Tsubasa."



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WOODROW WILSON BRIDGE PROJECT
1:52

Animation and Video Director
JEFF COLEMAN
URS Corporation

The Federal Highway Administration, the Virginia Department of Transportation, the Maryland State Highway Administration, and the District of Columbia Department of Public Works are pursuing a \$2.2 billion improvement of a 7.5-mile section of the east coast's busy I-95 corridor at the mid-point across the Potomac River, which includes the Woodrow Wilson Bridge. Potomac Crossing Consultants, a joint-venture of Parsons Brinkerhoff, URS, and RKK, LLP, is the general engineering consultant that is providing project management of design and construction for the project. The setting includes a highly populated, environmentally and culturally sensitive landscape, and the project affects many businesses, local residences, and travelers, so it requires extensive public involvement.

URS, Creative Imaging Group, Tampa, created a series of 3D computer simulations showing the new bridge and roadway design. The use of the rendering products began during a bridge-design competition in which CADD files and technical information were translated into still and animated visuals. These images were used by a citizen's advisory panel and a distinguished jury to determine the competition winner. Print and television news media received the materials, which they have continued to use to track stories of the largest public works project in the mid-Atlantic region.

Subsequently, renderings were used in still and animated forms for public hearings, town hall meetings, stakeholder panel meetings, b-roll for the media, and a variety of other formats. In November 2000, a Virginia Department of Transportation public hearing debuted a 12-minute video of a split-screen fly-through from a helicopter point of view, at an altitude of approximately 300 feet, of full construction of the Virginia portion of the project. A fly-through animation of the entire project was prepared to show traffic movements. This fly-through was available on a one-hour loop for five days at the annual Transportation Research Board (TRB) meeting in Washington D.C., where 7,000 attendees had the opportunity to view the video. That video has been reformatted into other formats for various purposes and will be available for broader distribution. These are very effective ways to show building removals and how new ramps will serve travelers, and they have been very well received by those who are unable to visualize engineering drawings.



Clients

FEDERAL HIGHWAY ADMINISTRATION,
VIRGINIA DEPARTMENT OF TRANSPORTATION,
MARYLAND STATE HIGHWAY ADMINISTRATION, AND THE D.C.
DEPARTMENT OF PUBLIC WORKS

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WORK IN PROGRESS

3:09

Director
TOM BERTINOProducer
CHRISTIAN KUBSCH
Industrial Light + Magic

In a fantastic workshop hidden deep in a world of natural wonders, two peculiar inventors squabble over their latest creation. What's more important: concept or implementation? A mysterious third party intervenes and provides the elusive, missing ingredient.

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STACCHI

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JILL BROOKS

Layout Supervisor
SCOTT FARRAR

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"VESTI LA GIUBBA:
ARIA"
Performed by
TODD GEER

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X-MEN "MORPHOLOGY"

2:07

Visual Effects Producer
AMY HOLLYWOOD WIXSON
Digital Domain

For director Bryan Singer's "X-Men," Digital Domain created a photoreal CG Senator Kelly as he convulsed into a liquid death. CG supervisor David Prescott and his team, led by technical developer Sean Cunningham, used passes of a reflection sphere to create a global illumination environment for the CG elements. Ninety percent of the final shot was CG, originating with a brief plate shot of actor Bruce Davison. This provided more freedom to manipulate and exaggerate his breathing and final gasps as he turned to water, essentially adding to and enhancing the actor's performance.



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X-MEN: MYSTIQUE TRANSFORMATIONS
1:24

For “X-Men,” Kleiser-Walczak artists developed a 3D-morphing technique for transforming various live-action characters into the evil metamorph: Mystique. CG keyframe animation and procedural animation formed the basis of visual effects that were integrated with Rebecca Romijn-Stamos’ performance and Gordon Smith’s practical make-up.

To produce Mystique’s transformations, Kleiser-Walczak used polygonal 3D body scans by InSpeck and Cyber FX, 3D modeling software by Paraform, Alias|Wavefront’s Maya for procedural animation, and 3D tracking solutions by Yannix Technology. Chalice was used for compositing, and WAM!NET provided rendering resources.



Director
BRYAN SINGER

Producers
LAUREN SHULER DONNER
RALPH WINTER
Kleiser-Walczak

*Kleiser-Walczak
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Mystique “Making Of” by:
BEAU JANZEN

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Film Manager
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ZOIDS
4:00

Director
TAKAO KATO

Producer
TOSHIHIRO NAKAZAWA
Shogakukan Music & Digital
Entertainment Co., Ltd.

The TV cartoon series “Zoids” was made with the toon shader 14of SoftImage 3D. 2D cel animations were blended without any oddness. First, each 3D CG model’s basic actions (walking, running, jumping) were established. Then, using the “animation sequencer” function of SoftImage 3D, an autofilling “motion blend” was performed on the changing parts to produce many cuts. Finally, RETAS! PRO and AfterEffects were used for the cel drawings that combined 2D characters, hanging smoke, rock, and natural objects. These made it possible to fine-tune the arrangement, and any oddness between the two was eliminated.



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