CHVOSCENOUD



GPU Rendering Roadshow 2014



How V-Ray RT and NVIDIA GPUs Are Defining a New Filmmaking Paradigm

> CHACCERCUP innovative rendering technologies



- A Brief History of Chaos Group
- Why GPU Rendering
- Lighthouse Project
- CONSTRUCT
- The Future



2002- V-Ray for Max

- 2007- GPU research begins
- 2009- V-Ray RT
- 2010- V-Ray for Maya
- 2011- V-Ray for Rhino
- 2011- V-Ray for SketchUp
- 2012- V-Ray for Softimage
- 2014- Stay tuned



about us

→ Chaos Group Company Overview



testimonials

→ Dan Wheaton Digital Matte Supervisor, ILM

"When we started 'The Lone Ranger,' we changed some of the







HOME V-RAY 3.0 FOR 3DS MAX V-RAY 3.0 FOR MAYA BETA

All New Lighting Shading Rendering Workflo



Chaos Group Today

CH/\OCEROLP innovative rendering technologies









Film



Homepage / Technology / Digital Hollywood / Visual FX / Creating the Helicarrier of Captain America: The Winter Soldier

Creating the Helicarrier of *Captain America: The Winter Soldier*

April 7, 2014 5:30 PM

How Industrial Light & Magic created the largest CG model in its history.

By Bill Desowitz





TEXT SIZE: A . A . A

The star of Captain America: The Winter Soldier is neither Captain America nor the Winter Solider. It's the next-gen Helicarrier, a technological marvel and ultimate superweapon that can stay in orbit to target and kill about a million victims at once. But is it a terrorist's worst nightmare, or American militarization out of control? That's the big dilemma facing Chris Evans's Cap and the vaunted S.H.I.E.L.D.

8+1







Design



CH/\OCCROUP innovative rendering technologies



Best Visualizations of 2013

CHAO2GROUP













































Gizmodo

CHVOSCBOUD









- V-Ray Production
- V-Ray Progressive
- V-Ray RT [CPU]
- V-Ray RT [GPU]



The Roundtable

The Roundtable

The Cast of Characters

Mike Romey

Head of Pipeline ZOIC Studios



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Kevin Margo

VFX/CG Supervisor Blur Studio





Christopher Nichols Creative Director Chaos Group LAbs

Vlado Koylazov

Chaos Group Co-Founder and CTO



Why GPU Rendering



Lighthouse Project



GPU Breakthroughs





////CONSTRUCT////

CG animated short film
Tell a personal story
EXPLORE and DEFINE new filmmaking techniques

CHAOCEROLP innovative rendering technologies

////CONSTRUCT////

- Designed with the GPU in mind
- Small team
- Massive computational power
- Small footprint











1970 chevrolet chevelle malibu ss 396 color palette



bill's family



////CONSTRUCT////





///CONSTRUCT///







////CONSTRUCT////











////CONSTRUCT////

- HD Final Frame Rendering 5-7 minutes
- 1 K6000, 2 K40s
- Rendered on 3 machines



////CONSTRUCT////





Rendering During Production



V-Ray App SDK





No downloads, no licenses, no configuration. Create, upload, tweak, share, convert, and collaborate with Clara.io. Right from your browser.

////CONSTRUCT////

Real world light and surface simulation
Physically accurate materials
Physically accurate lights

The Future of Filmmaking

2



Democratizing the Creative Process



Coming to V-Ray RT

Coming to V-Ray RT

- Displacement
- Subsurface Scattering
- Hair
- Volumetrics

