

NVIDIA GPU,开启VR世界的钥匙

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VR GROWING FAST



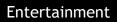
VR/AR Revenue=\$15B By 2020

VR EVERYWHERE















Design



News

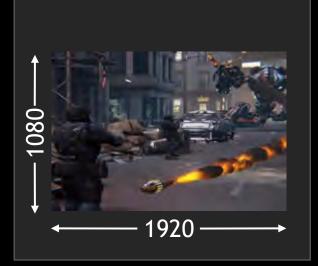


Art

7X MORE DEMANDING

PC GAMING = 60 MP/S

(1920 X 1080 @ MIN 30 FPS)



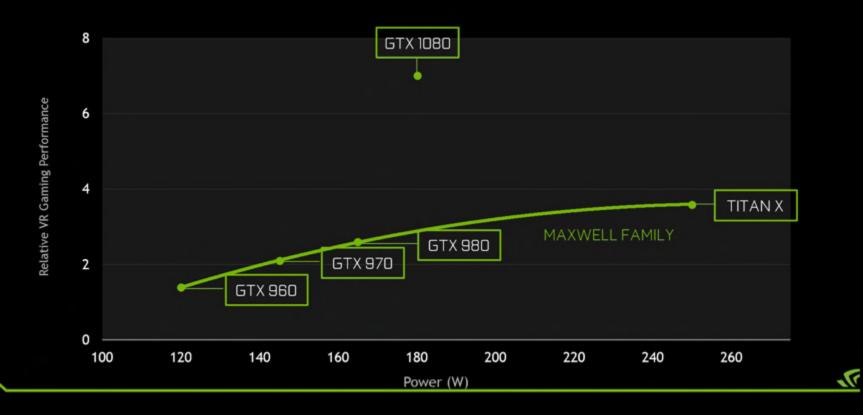
VIRTUAL REALITY = 450 MP/S

(3024 X 1680* @ MIN 90 FPS)



*VR render resolution

GEFORCE GTX 1080-7X VR PERF.



NVIDIA VRWORKS

OCULUS RIFT AND HTC VIVE INTEGRATION | EPIC, MAX PLAY AND UNITY GAME ENGINES

AVAILABLE NOW

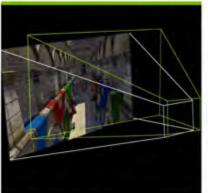
GAMEWORKS VRWORKS DESIGNWORKS DRIVEWORKS JETPACK







VR SLI



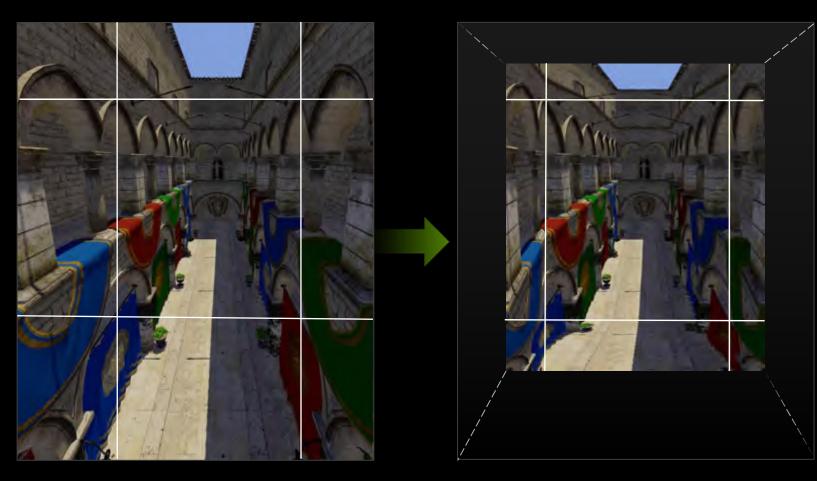
Context Priority



Warp and Blend

and other technologies such as: Direct Mode, GPUDirect for Video

MULTI-RESOLUTION SHADING



MULTI-RESOLUTION SHADING

STANDARD RESOLUTION



MULTI-RESOLUTION SHADING

MULTI-RESOLUTION



MULTI-RES 50% FASTER ON UE4

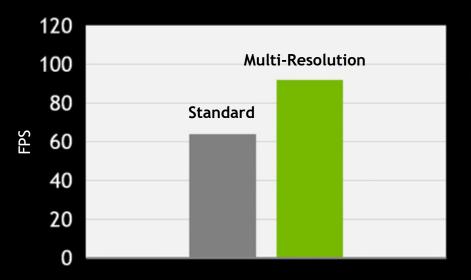




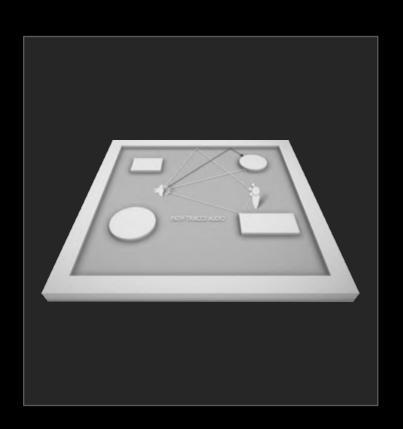
Image: UE4 Reflections Subway, courtesy of Epic Games

COMPUTING CHALLENGES IN SIMULATING REALITY

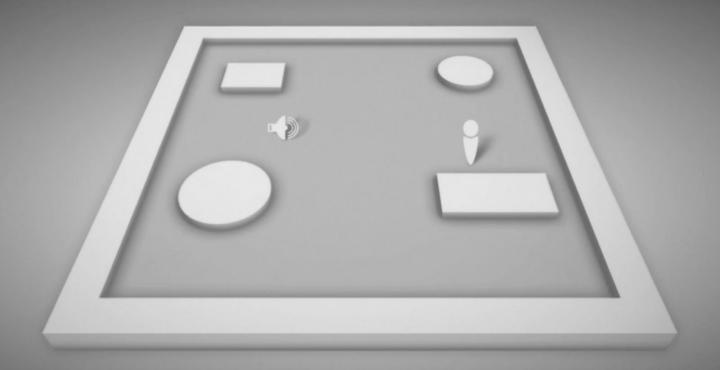
GRAPHICS AUDIO TOUCH PHYSICAL SIMULATION

INTRODUCING NVIDIA VRWORKS AUDIO

Path Traced Audio



NVIDIA VRWORKS AUDIO



PHYSICAL SIMULATION IN VR













HAIRWORKS FLOW

DEMO



AVAILABLE AT



OPEN SOURCE THIS SUMMER



PERFECT 10

GEFORCE GAMING PERFECTED









ANSEL

VRWORKS

GTX 1080 GTX 1070 GTX 1060

SIMULTANEOUS MULTI-PROJECTION