

移动VR的现状和展望

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日程

现状

关键指标

展望

VR



AR



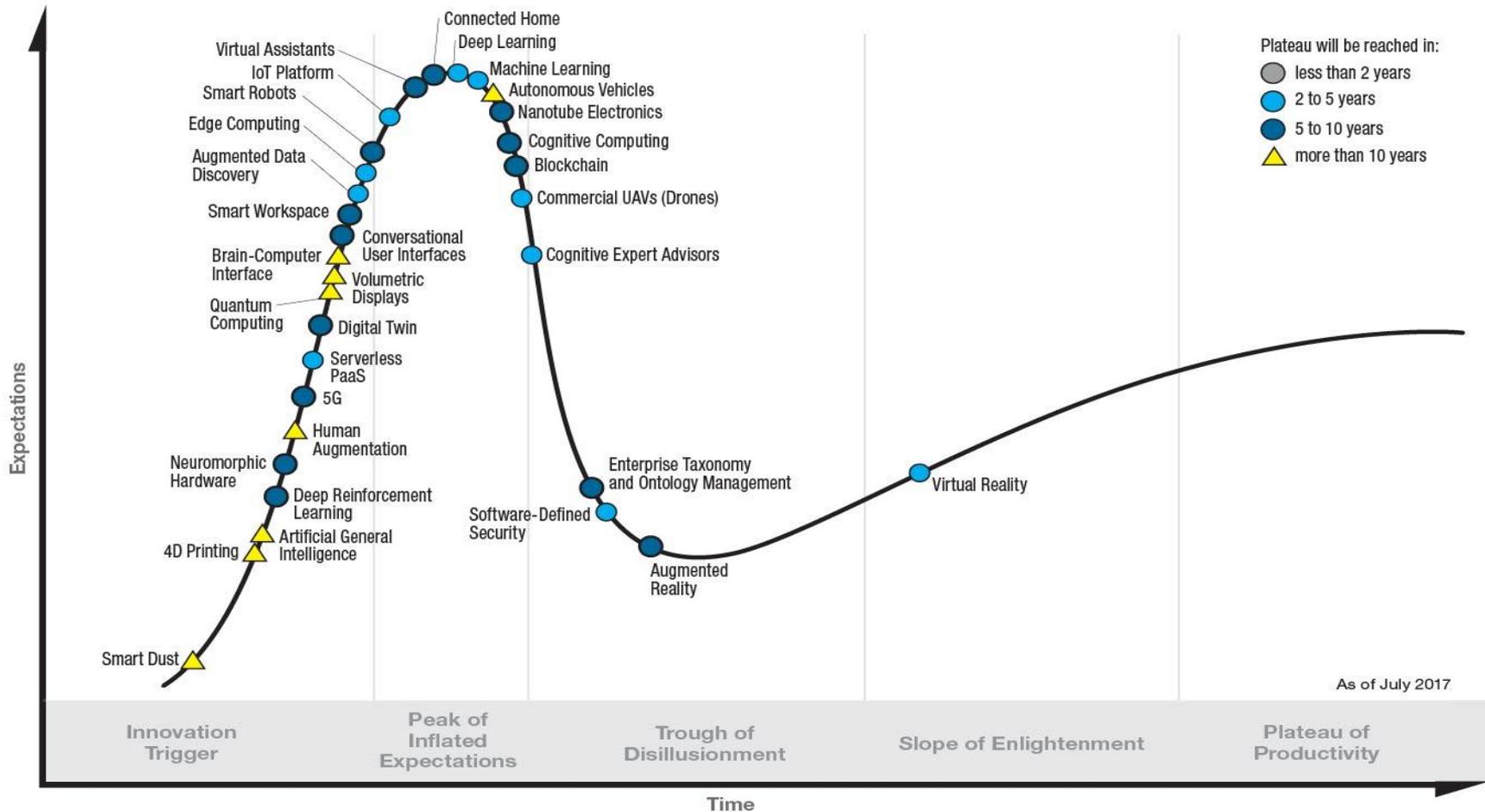
MR



正视现实

虚拟现实产业处在初级阶段，但是在高速发展

Gartner Hype Cycle for Emerging Technologies, 2017

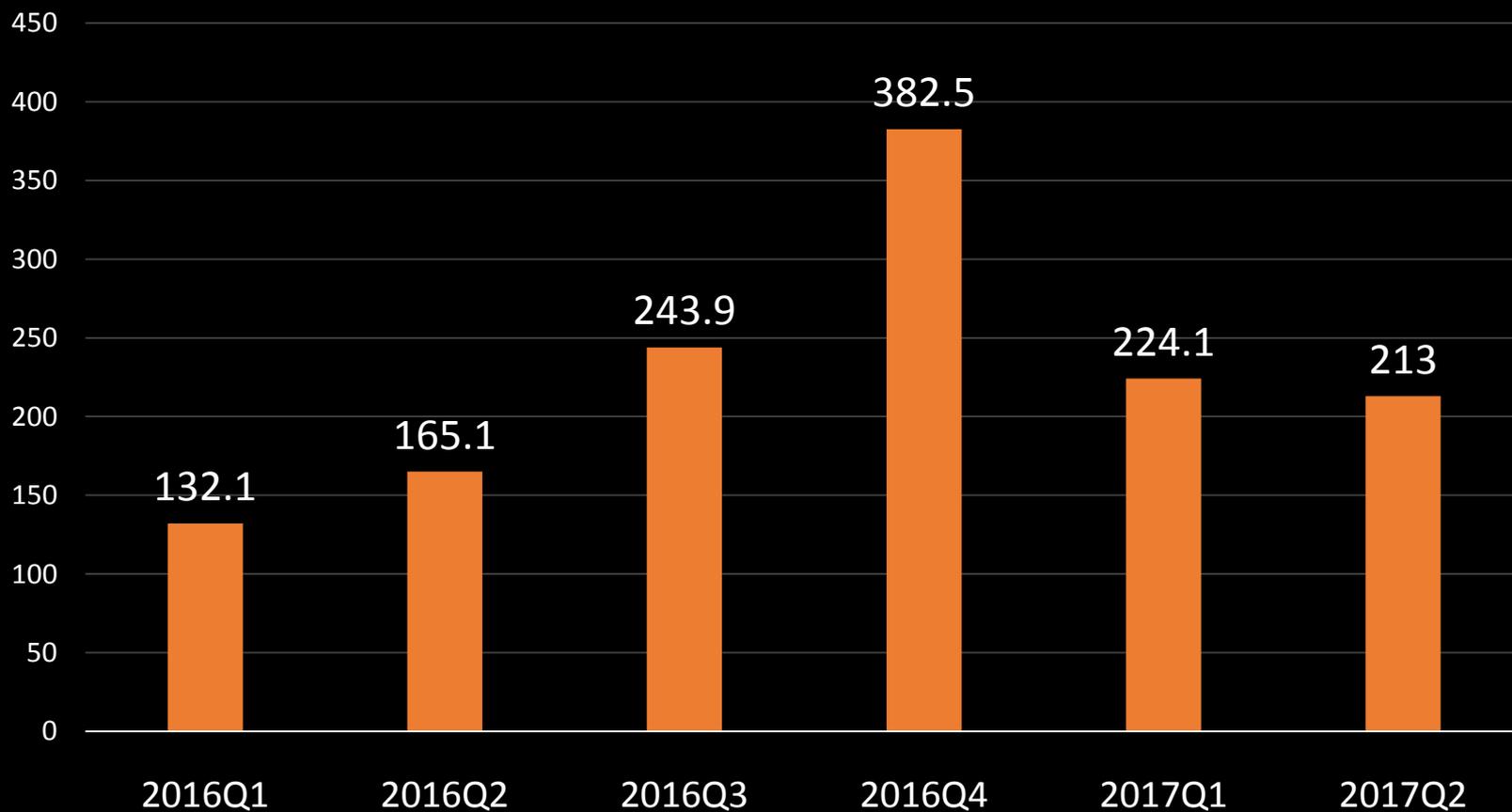


gartner.com/SmarterWithGartner

Source: Gartner (July 2017)
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Gartner

VR出货量 (单位：万)



VR设备分类

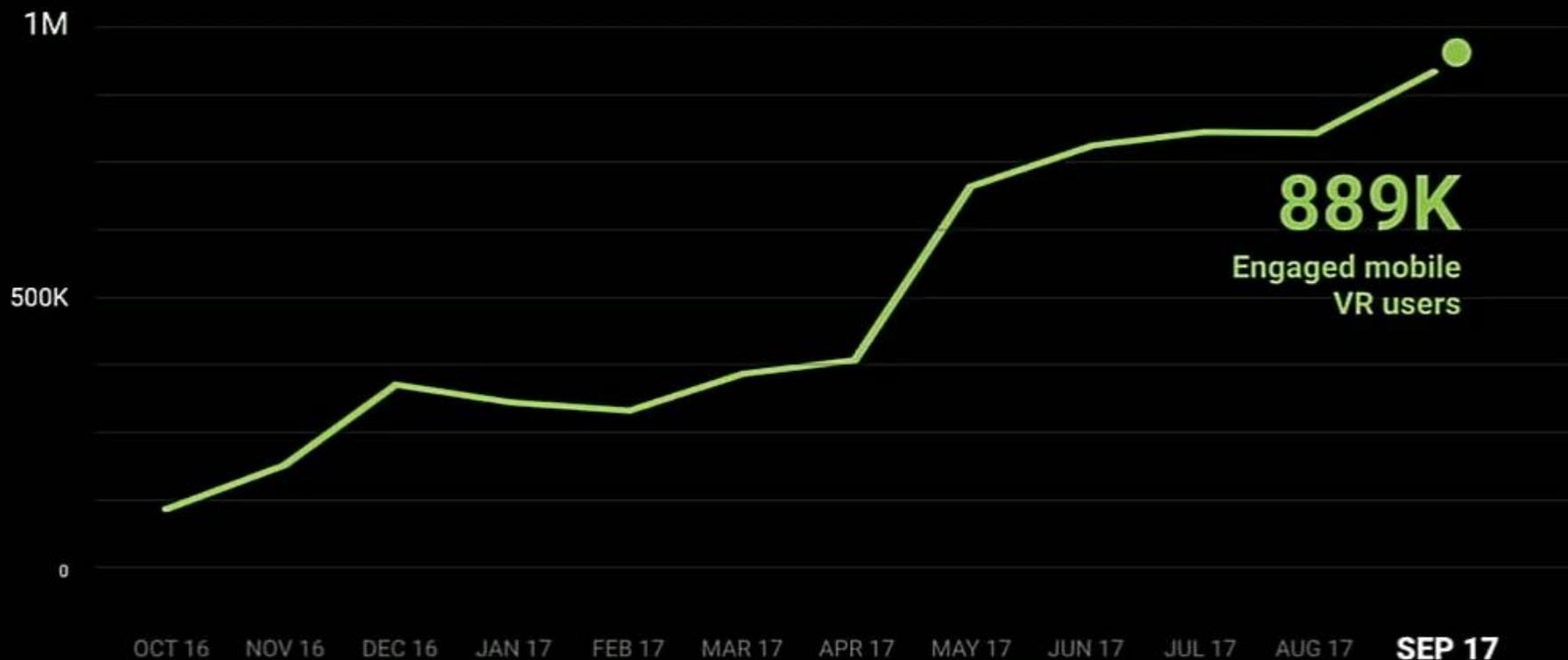
PC/Console VR

33%

Mobile VR

67%

移动VR的趋势



2009-2010 手机产业的增长

42%

智能手机保有量

74%

手机内容

2016-2017 移动VR产业的增长

178%

移动VR设备

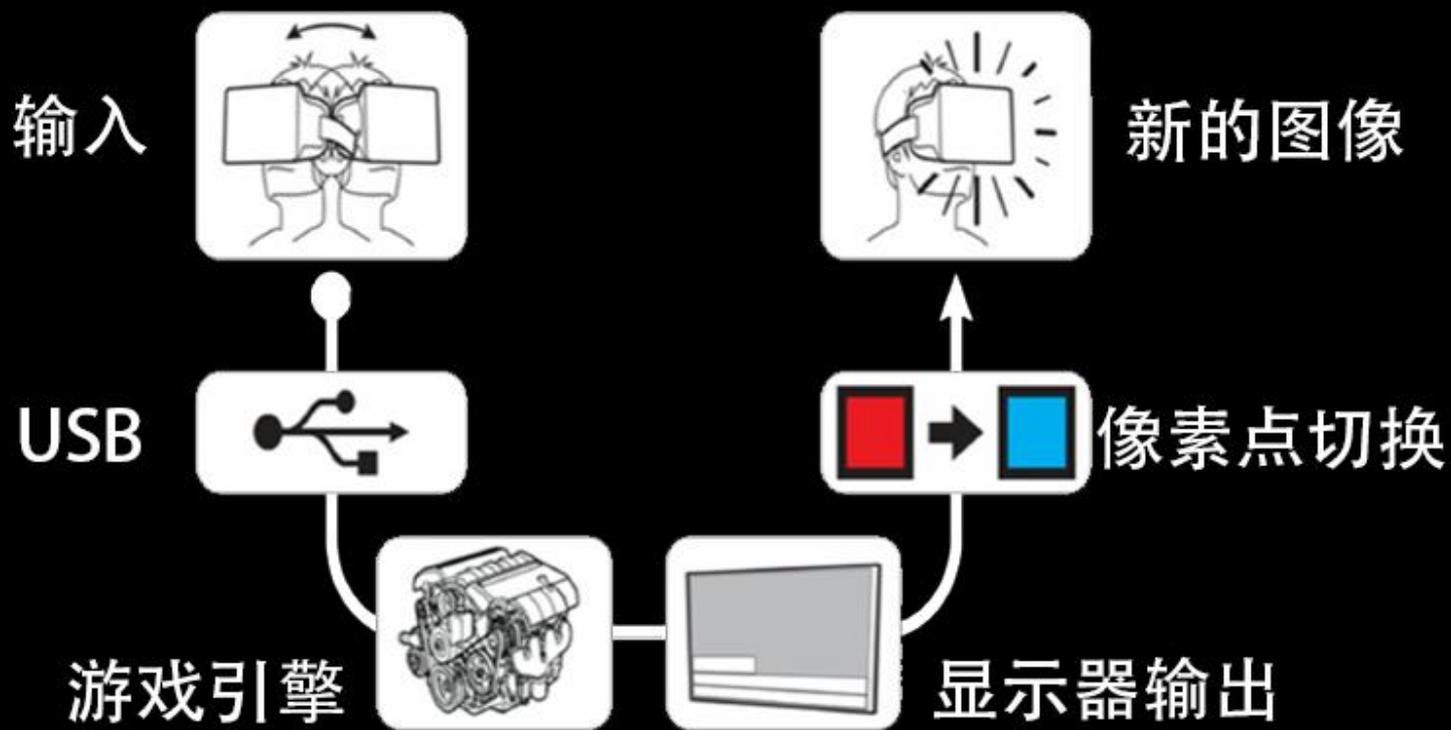
184%

移动VR的apps

VR设备的问题

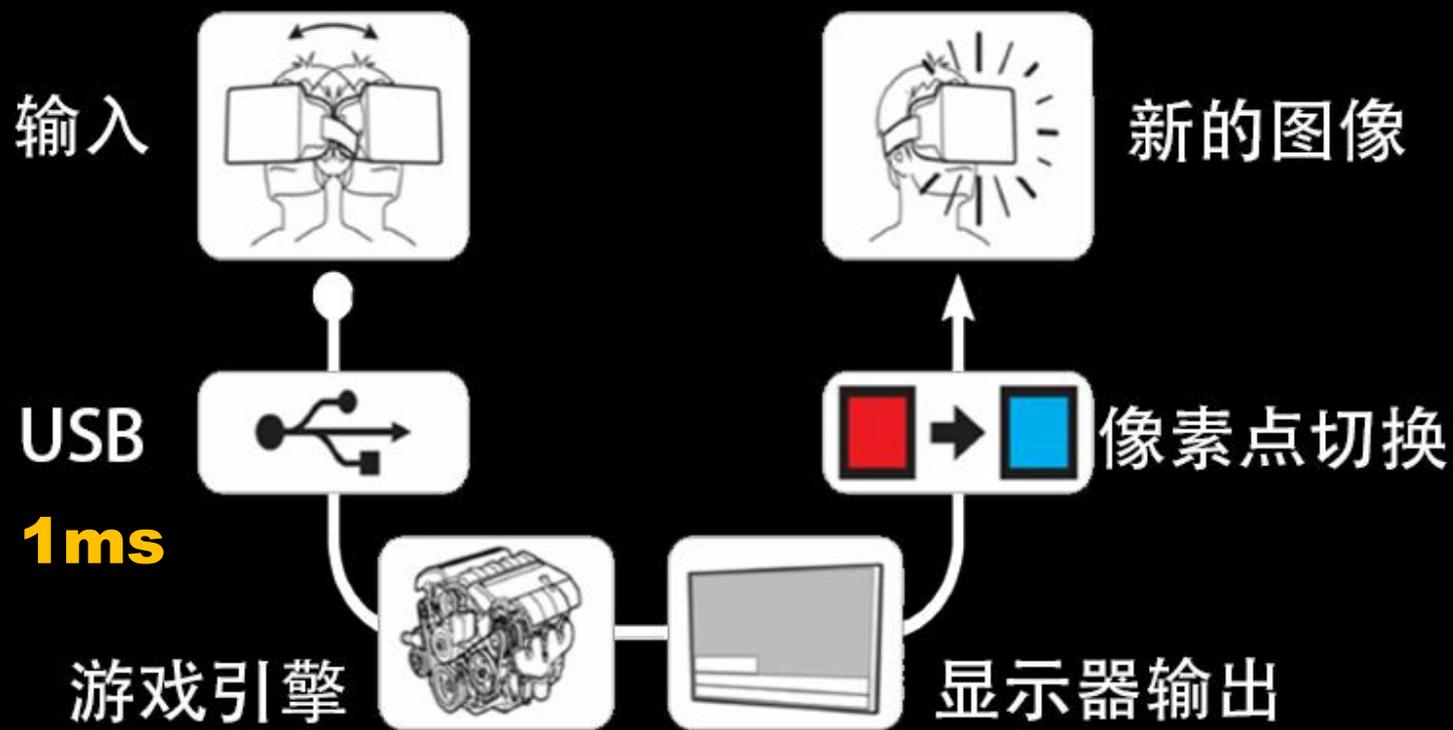
用起来让人眩晕

Motion-To-Photon Latency

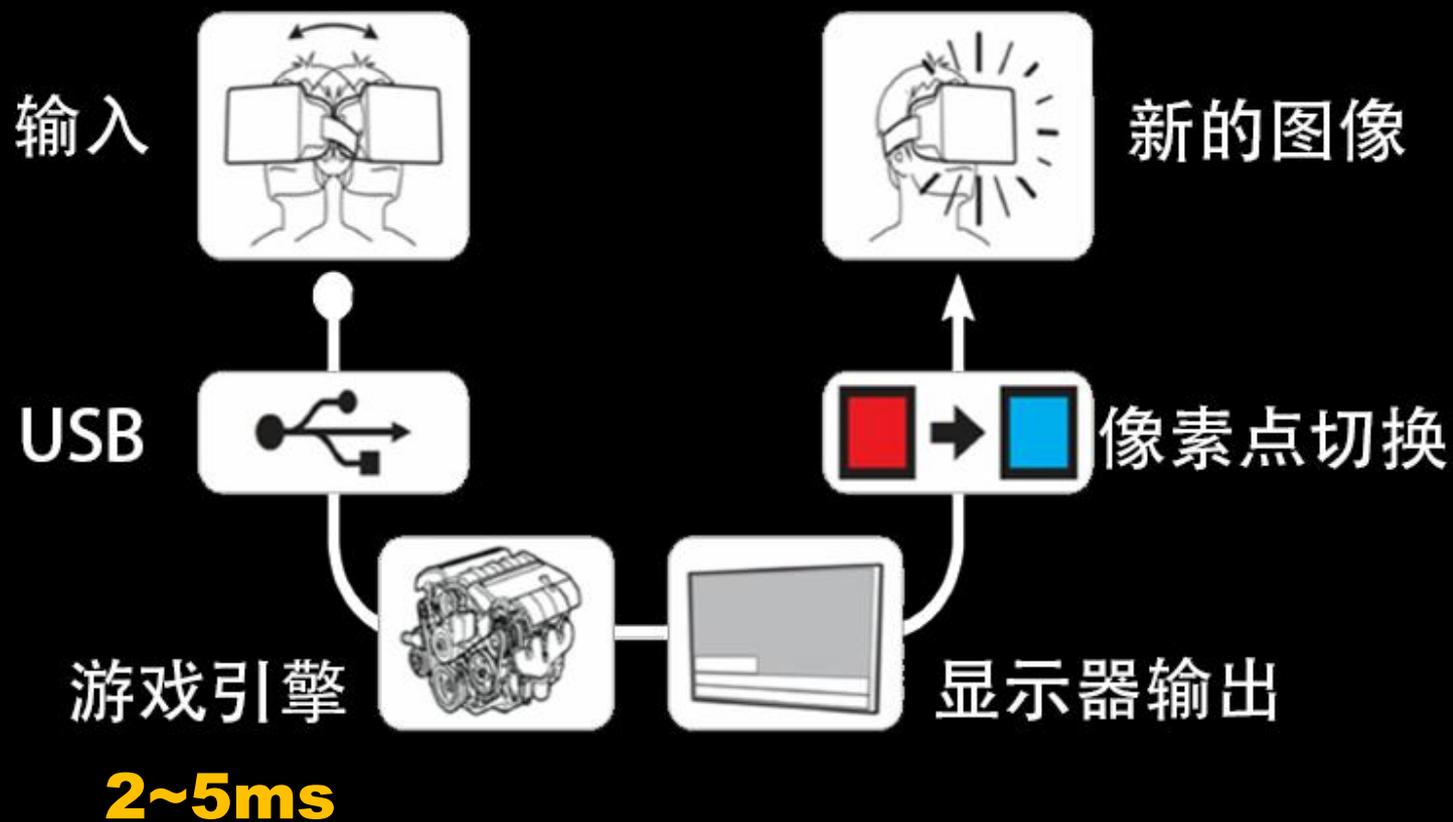


20 毫秒

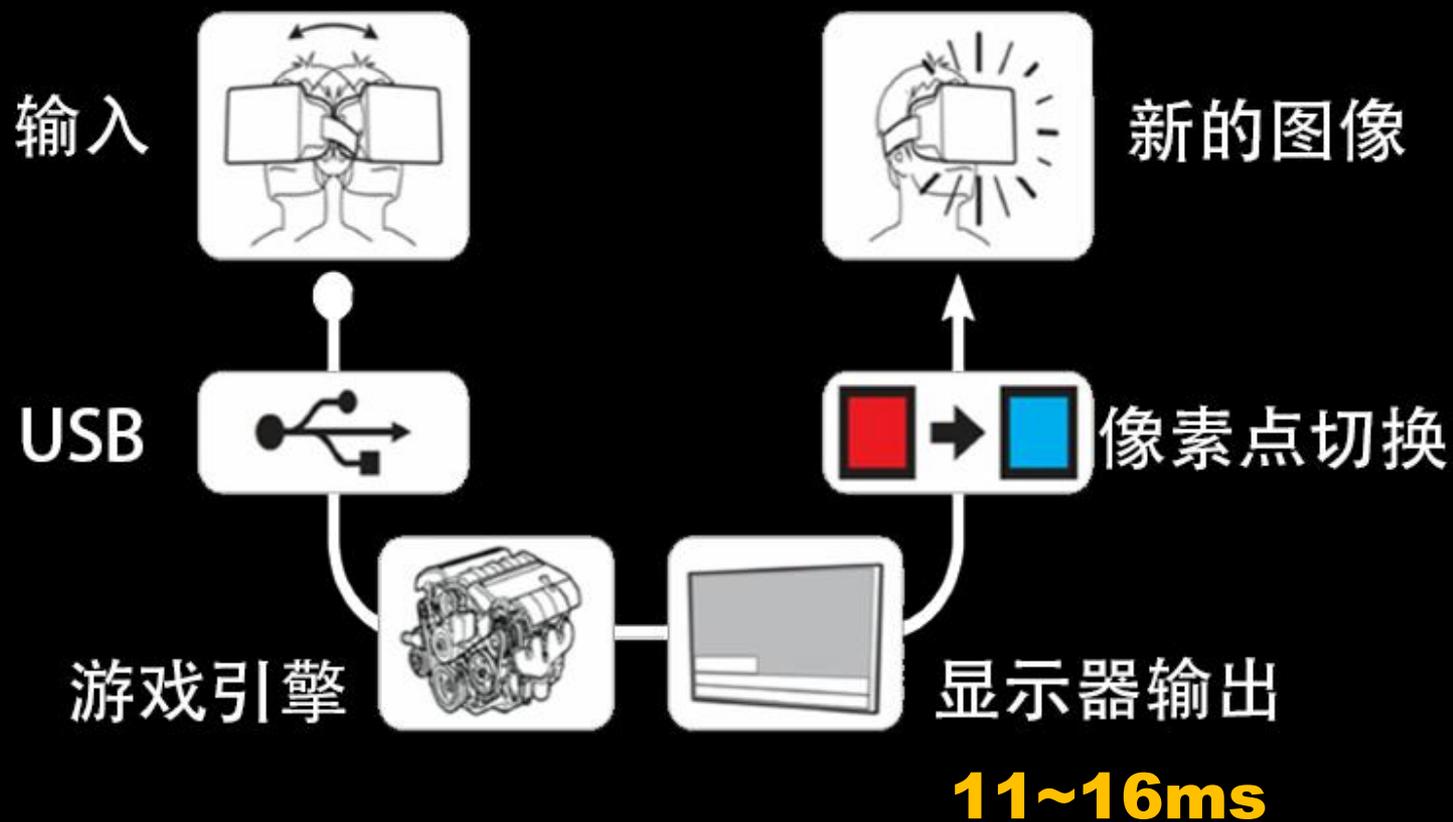
Motion-To-Photon Latency

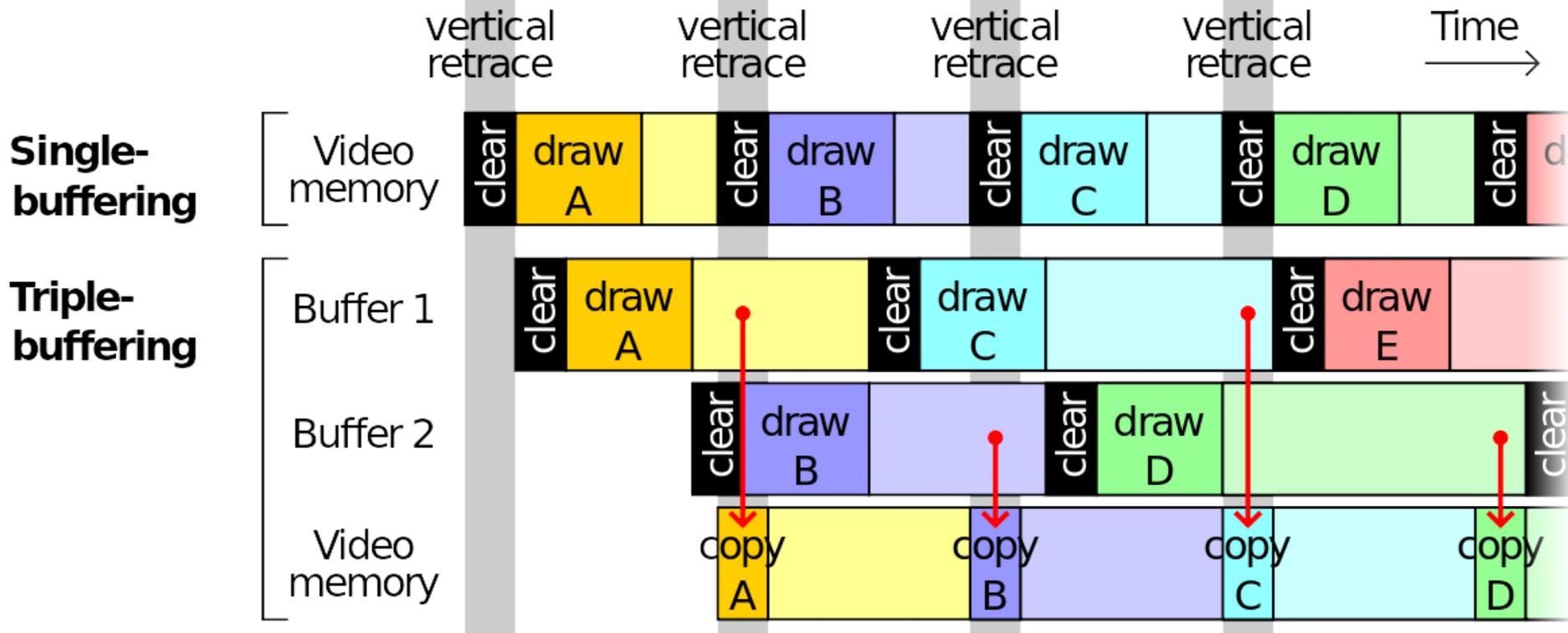


Motion-To-Photon Latency



Motion-To-Photon Latency







Tear Point #1 --->

Tear Point #2 --->

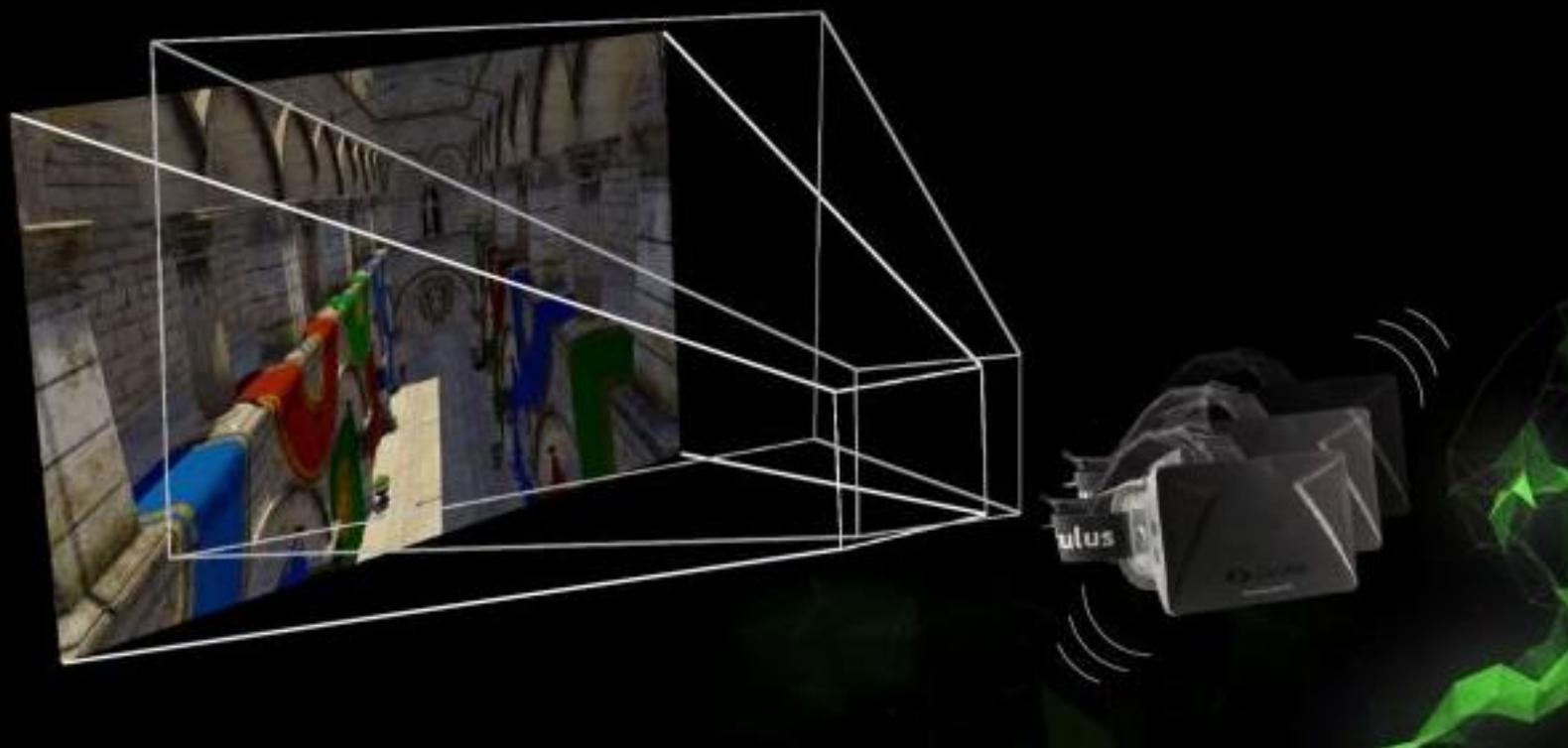
0ms

8.34ms

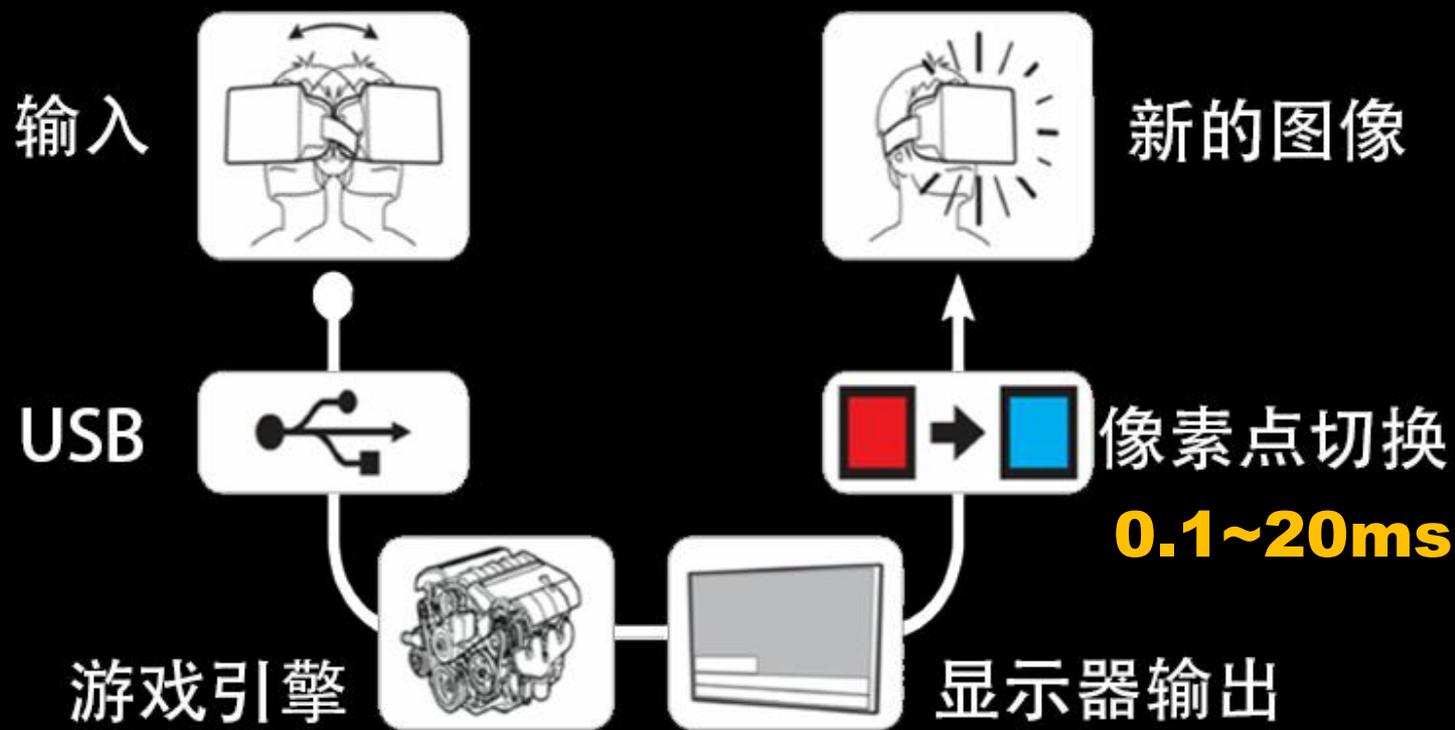
16.67ms



Asynchronous Timewarp



Motion-To-Photon Latency



响应时间

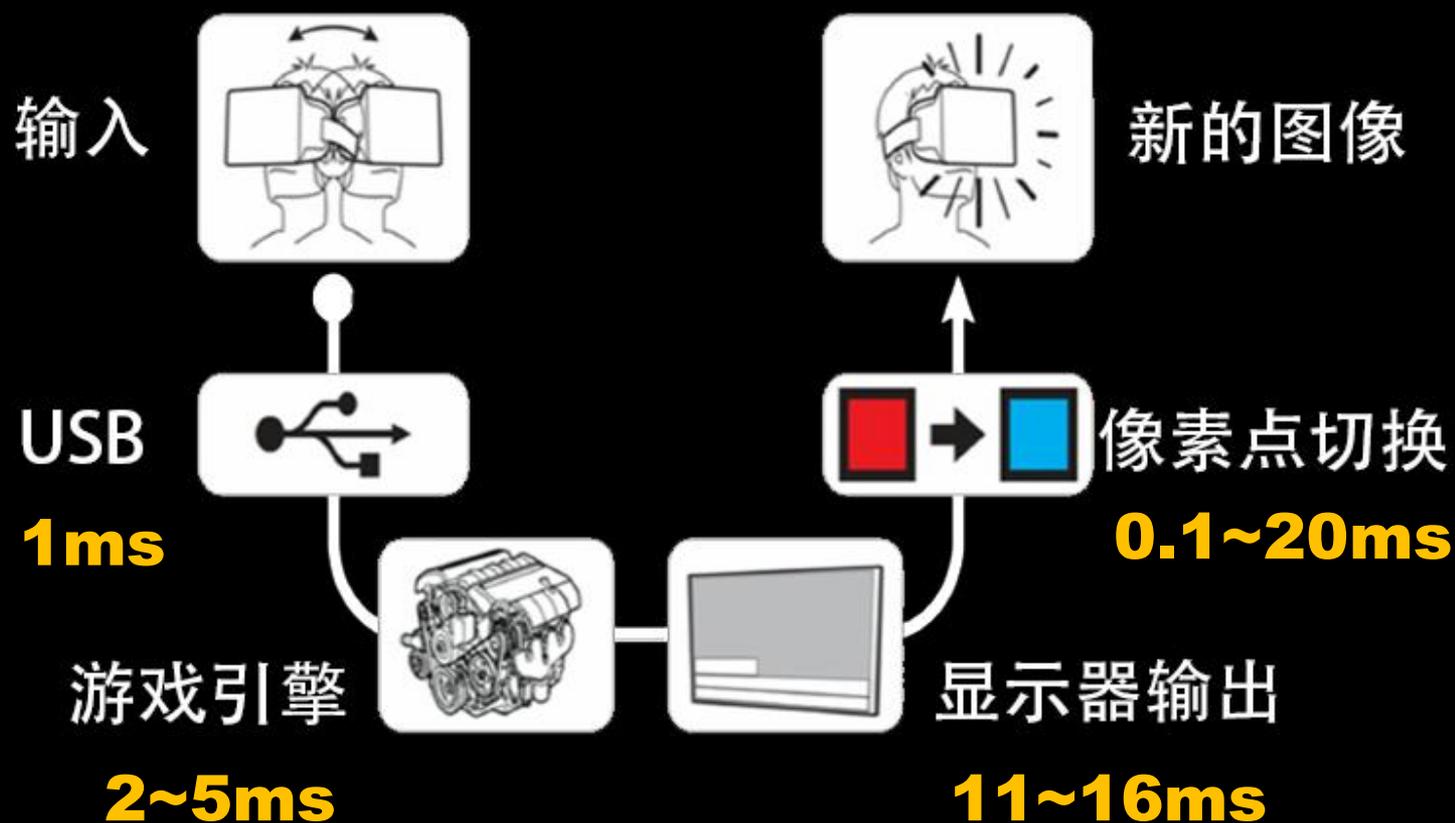
OLED

0.1毫秒

LCD

20毫秒

Motion-To-Photon Latency



未来的挑战

硬件改进

输入输出创新

内容丰富

视网膜效果

570ppi

2960*1440

2292ppi

12500*6800

输入输出创新



内容的丰富

 <p>The Maze Adventure VR Durovis Dive / Homido / Google Cardbo...</p> <p>VIEWS: 240 DOWNLOADS: 19 PRICE: FREE</p>	 <p>Vanishing Point Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★★ VIEWS: 108 DOWNLOADS: 17 PRICE: FREE</p>	 <p>Orbulus Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★☆ VIEWS: 132 DOWNLOADS: 31 PRICE: FREE</p>	 <p>The 7 Gates of Survival Rift DK2</p> <p>★★★★★ VIEWS: 777 DOWNLOADS: 119 PRICE: FREE</p>	 <p>Wrong Level VR Durovis Dive / Homido / Carl Zeiss VR...</p> <p>★★★★★ VIEWS: 80 DOWNLOADS: 12 PRICE: FREE</p>
 <p>SpaceBattle VR Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★☆ VIEWS: 100 DOWNLOADS: 17 PRICE: \$1.30</p>	 <p>FalconVR Rift DK2</p> <p>★★★★★ VIEWS: 322 DOWNLOADS: 81 PRICE: FREE</p>	 <p>WingSuit VR Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★★ VIEWS: 335 DOWNLOADS: 90 PRICE: FREE</p>	 <p>QVR Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★★ VIEWS: 176 DOWNLOADS: 47 PRICE: \$1.20</p>	 <p>Neptune Flux Rift DK2</p> <p>★★★★★ VIEWS: 2081 DOWNLOADS: 489 PRICE: FREE</p>
 <p>Sheriff VR Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★★ VIEWS: 229 DOWNLOADS: 62 PRICE: \$1.99 - \$2.99</p>	 <p>VR Minecart Durovis Dive / Homido / Google Cardbo...</p> <p>★★★★ VIEWS: 124 DOWNLOADS: 40 PRICE: FREE</p>	 <p>climvertime Rift DK2</p> <p>★★★★☆ VIEWS: 314 DOWNLOADS: 63 PRICE: FREE</p>	 <p>Dimensional Rift DK2</p> <p>★★★★★ VIEWS: 971 DOWNLOADS: 180 PRICE: FREE</p>	 <p>Minecraft Rift DK1 / Rift DK2</p> <p>★★★★★ VIEWS: 8219 DOWNLOADS: 3750 PRICE: FREE</p>

扎克伯格的小目标

让10亿人进入虚拟现实的世界

福利

VR眼镜



小爱同学



问题