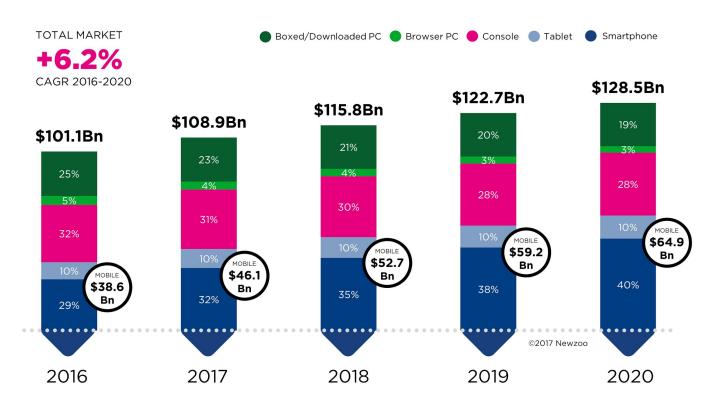
Handy Guide to Games Investment

By Dr.Tomas Rawlings, Co-director of Bristol Games Hub



Global Market Growth

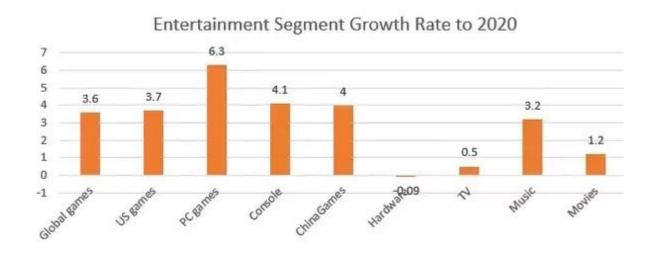


Source: newzoo.com/globalgamingreport

Games vs other Media

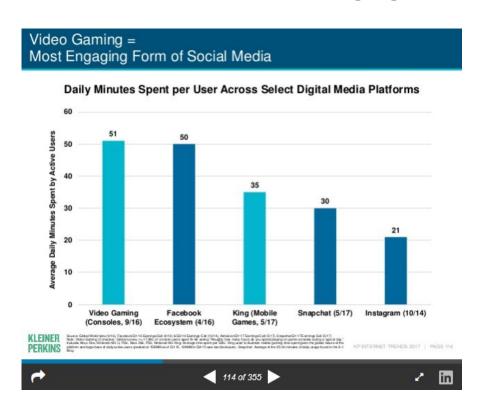
Global Music Industry: \$16 Billion Global Film Box Office: \$38.6 Billion

Console Gaming: \$30 Billion



See: https://www.quora.com/ls-the-Video-Game-industry-bigger-than-the-Film-and-Music-Industries

Mary Meeker's Internet Trends - Engagement



See: http://www.kpcb.com/internet-trends - gaming starts on slide 84.

UK Market



See: https://ukie.org.uk/research

UK Market

HARDWARE: £1.13bn PC GAME CONSOLE HARDWARE **HARDWARE** -26.7% £258m £507.5m +64.3% SOURCE: GFK ENTERTAINMENT PERIPHERALS & **ACCESSORIES HARDWARE** £300.1m -16.6% £61.3m (2015: £359.7m) SOURCE: GFK ENTERTAINMENT | NEW FOR 2016 SOURCE: SUPERDATA

See: https://ukie.org.uk/research

UK Market

OTHERS:

£100.5m



See: https://ukie.org.uk/research

Mary Meeker's Internet Trends - Leadership

...~Ten Years Later = Entrepreneurs Often Fans of Gaming Experience

I like video games. In fact, that's what got me into software engineering when I was a kid. I wanted to make money so I could buy a better computer so I could play better video games.

- Elon Musk, CEO Tesla & SpaceX, 10/16

As a child I played a lot of Avalon Hill board games. And each board game is actually a complex set of rules and circumstances... So it was actually in fact my childhood gaming — for being able to build a model of what a game was — that was essentially the fundamental thing that informs my strategic sense.

- Reid Hoffman, Co-Founder of LinkedIn, 8/15

I do think this dynamic around kids growing up, building games, and playing games, is an important one because I think this is how a lot of kids get into programming. I definitely wouldn't have gotten into programming if I hadn't played games.

- Mark Zuckerberg, CEO Facebook, 5/15



See: http://www.kpcb.com/internet-trends - gaming starts on slide 84.

Games as Outreach: Making it Positive!

- 52% of gamers report playing games where they think about moral and ethical issues
- 44% report playing games where they learn about a problem in society
- 43% report playing games where they help make decisions about how a community, city or nation should be run.
- 76% of young people report helping others while gaming





Less a 'Games Market' More 'Games Markets'

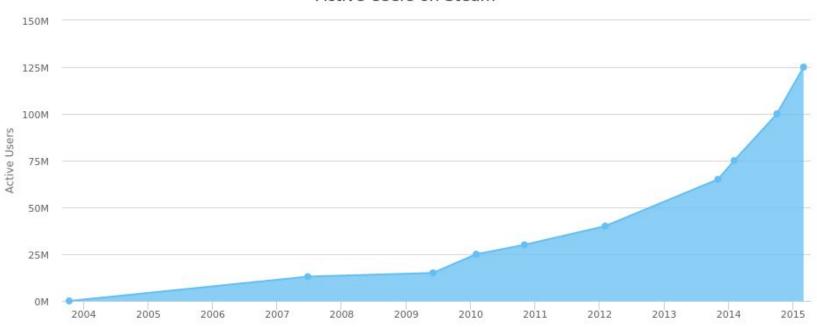
- Steam
- Mobile
- Console
- Physical Games
- AR
- VR
- YouTube/Twitch
- eSports
- Applied Gaming

Steam

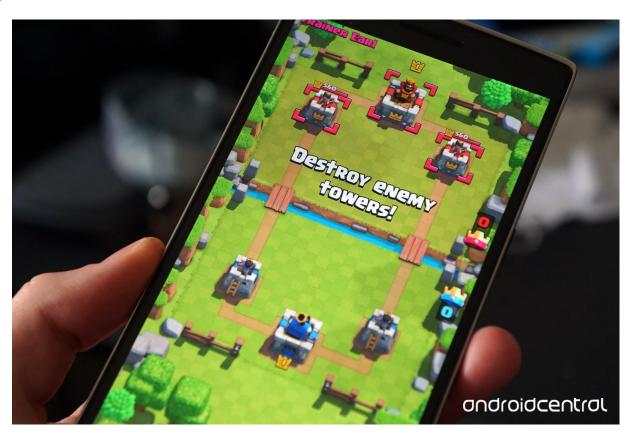


Steam



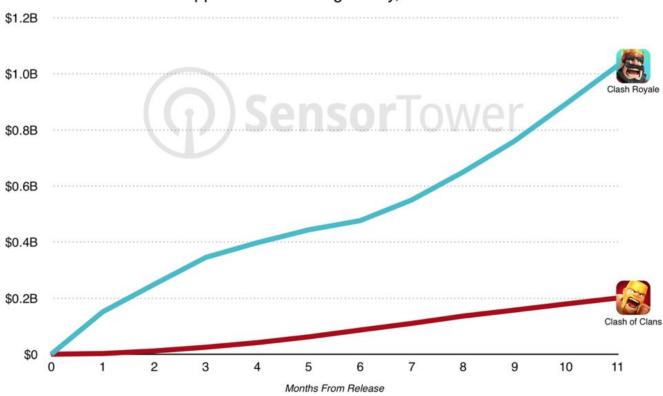


Mobile



Mobile

Clash Royale Cumulative Gross Revenue App Store and Google Play, Worldwide



Note: Clash of Clans was not available on Google Play until six months after its worldwide launch.

Console



Console



Physical Games

Physical games are going through a renaissance in terms of creativity and sales.

- \$1,600,000,000+, size of total "games and puzzles" (i.e. includes non-"hobby game" games) market in US territories in 2015
- 10% to 20%, estimated growth of boardgame sales in past decade. This has continued in 2016, with ICv2 confirming a growth of 10%.



Augmented Reality (AR)



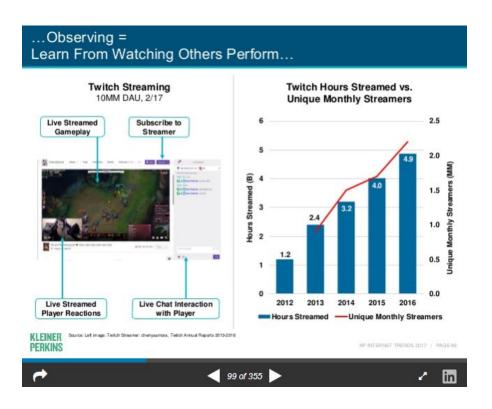
Virtual Reality (VR)



YouTube/Twitch

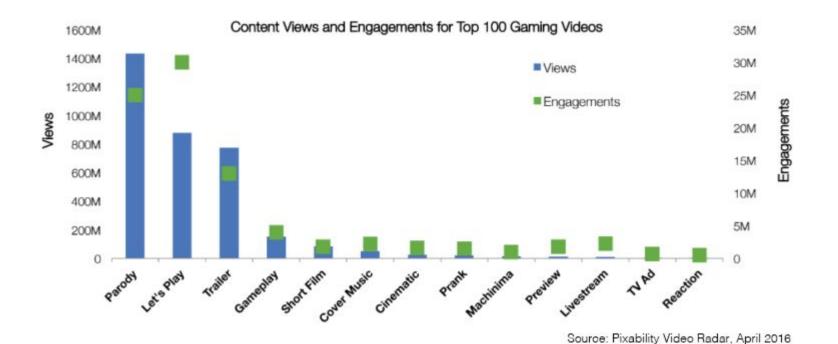


YouTube/Twitch



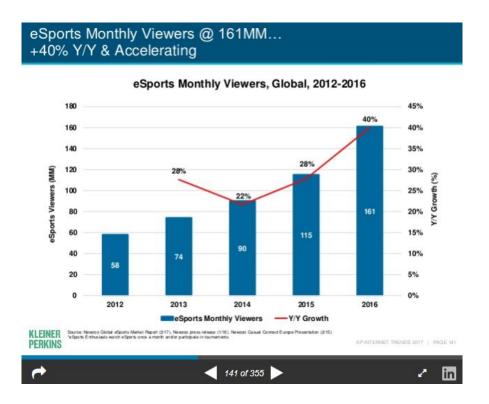
See: http://www.kpcb.com/internet-trends - gaming starts on slide 84.

YouTube/Twitch



See: http://www.kpcb.com/internet-trends - gaming starts on slide 84.

eSports



See: http://www.kpcb.com/internet-trends - gaming starts on slide 84.

Applied Gaming

...Gamification = Influencing Multiple Businesses...

Healthcare Research Foldit



Military Training



Work Productivity Betterworks



Pilot Training Boeing



Healthcare Training Simulated Surgery



Neuroscience PTSD Therapy





Source: Top Left Image: Fold & Top Middle Image: US Army Sig 1º Class Caleb Barrieau, Top Right Image: Balterworks, Bottom Left Image: Bosing, Bottom Center Image: Smillated Surgical Systems, Bottom Right Image: Archpaper.com



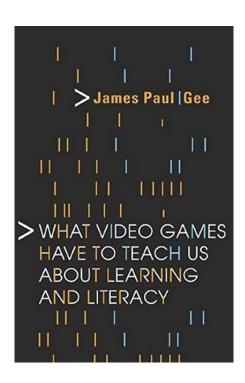


129 of 355





Applied Gaming - Education



Dr. James Paul Gee is one of the major advocates for the use of games in education. His seminal 2004 book, 'What Video Games Have to Teach Us About Learning and Literacy' concludes that video games in learning, intermix instruction and demonstration and that has proven a more effective learning technique than the "memorize-and-regurgitate style" found in most classrooms. This quote from a more recent paper of his reiterates this position:

"While games are good for learning, learning is good for games. Video games are, at heart, problem solving spaces. Learning is integral to their design and success. Good games create good learning in order to create good problem solving and, in the act, create deep engagement and satisfaction."

Thanks and on with the pitches!