Informaatioteknologian tiedekunnan julkaisuja No. 30/2016

Pekka Neittaanmäki, Elmira Galeieva, Anthony Ogbechie

# Social Gaming Platforms and the Gamification of Education and Learning





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No. 30/2016

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Pekka Neittaanmäki, Elmira Galeieva, Anthony Ogbechie

#### **ABOUT THE PROJECT**

This report was conducted under the Platform Value Now project funded by Finland's Strategic Research Council. Platform Value Now will focus on understanding the fast emerging platform ecosystems, their value creation dynamics and requirements of the supportive institutional environment. We will analyze ecosystems with systems tools and develop new methods for platform-centric ecosystems management. Data collection is based on active scanning of global technology and platform ecosystems and fast solution oriented case experiments with Finnish corporations and policy planners. The aim of the project is to operationalize the collected understanding into a Platform Profile framework that will enable more efficient method and tool development for ecosystem management.

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# SOCIAL GAMING TRENDS AND FORECASTS

What is Pokémon Go? And why it is breaking the internet



http://trendblog.net/what-is-pokemon-go/

'Pokémon Go': Pikachu is a secret starter Pokémon, here's how to catch it



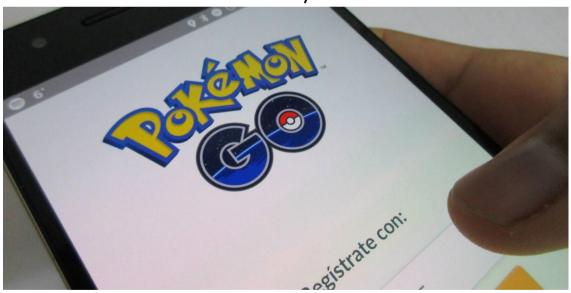
Read Article: <a href="http://www.digitaltrends.com/gaming/how-to-catch-pikachu-at-the-very-start-of-pokemon-go/">http://www.digitaltrends.com/gaming/how-to-catch-pikachu-at-the-very-start-of-pokemon-go/</a>

Everyone is already obsessed with 'Pokémon Go'



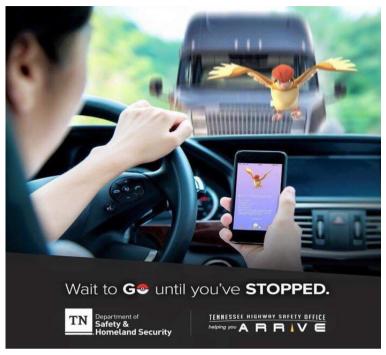
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'Pokémon Go' is so addictive that people are getting way more exercise than they're used to



Read Article: <a href="http://www.dailydot.com/debug/pokemon-go-workout-exercise-perk/">http://www.dailydot.com/debug/pokemon-go-workout-exercise-perk/</a>

# How brands are jumping on the Pokémon Go bandwagon: the good and the bad



Read Article: <a href="https://www.clickz.com/how-brands-are-jumping-on-the-pokemon-go-bandwagon-the-good-and-the-bad/102975/">https://www.clickz.com/how-brands-are-jumping-on-the-pokemon-go-bandwagon-the-good-and-the-bad/102975/</a>

# POKÉMON GO TREND REACHES WHOLE NEW LEVEL AS PIKACHU ECSTASY PILLS ARE SELLING LIKE HOTCAKES



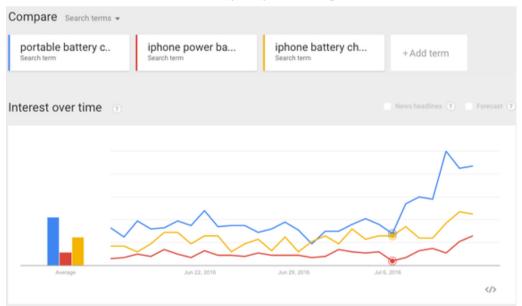
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#### Pokémon GO hype: First lockscreen tries to catch the trend



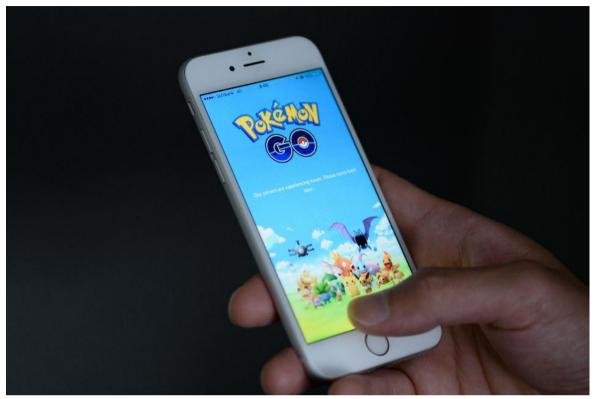
Read Article:  $\underline{\text{http://www.welivesecurity.com/2016/07/15/pokemon-go-hype-first-lockscreen-tries-catch-trend/}$ 

#### How can I become a millionaire by capitalizing on the Pokémon GO trend?



Read Article: <a href="https://www.quora.com/How-can-I-become-a-millionaire-by-capitalizing-on-the-pok/c3%A9mon-GO-trend">https://www.quora.com/How-can-I-become-a-millionaire-by-capitalizing-on-the-pok/c3%A9mon-GO-trend</a>

### 'Pokémon GO': How Nintendo Beat Sony And Microsoft By Using Trends



 $Read\ Article: \underline{http://www.forbes.com/sites/adamhartung/2016/07/15/pokemon-go-how-nintendo-beat-sony-and-microsoft-by-using-trends/\#538620cb669f$ 

### Pokémon: Dangerous trend or harmless fun?



Read Article: http://www.snn-rdr.ca/old/nov99/nov99/pokemon.html

### Twitter Is Hyped About Pokémon Go, Wants To Catch 'Em All



http://www.fastcompany.com/3061638/the-recommender/twitter-is-hyped-about-pokemon-go-wants-tocatch-em-all

Pokemon Go is impacting restaurant strategy - Business Insider

People are starting to make their restaurant choices based on Pokemon

Go



http://nordic.businessinsider.com/pokemon-go-is-impacting-restaurant-strategy-2016-7?r=US&IR=T

### Pokemon GO gets people out and about, and that's a good thing



http://www.brisbanetimes.com.au/queensland/pokemon-go-gets-people-out-and-about-and-thats-a-good-thing-20160716-gq770u.html

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# 'Pokemon GO' app erupts into popular, bizarre trend



 $\underline{http://www.butlercountytimesgazette.com/entertainment/20160713/costello-pokemon-go-app-erupts-into-popular-bizarre-trend}$ 

# Pokémon GO Compared to Other Popular Apps



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#### How To Capitalize On The Pokemon GO Trend



https://www.linkedin.com/pulse/how-capitalize-pokemon-go-trend-mark-coulter-

Pokémon Go pips Twitter, Facebook in terms of daily users



http://www.thenewsminute.com/article/pok%C3%A9mon-go-pips-twitter-facebook-terms-daily-users-46494

# An old standard has evolved! — Pokemon Omega Ruby & Alpha Sapphire Review



http://gamingtrend.com/reviews/old-standard-evolved-pokemon-omega-ruby-alpha-sapphire-review/

#### What's the Deal with the Pokémon Craze?



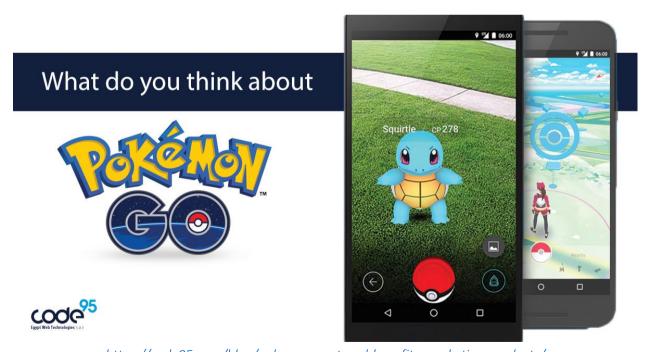
http://www.instyle.com/lifestyle/what-is-pokemon-go

# 5 lessons any business can learn from the Pokemon Go craze



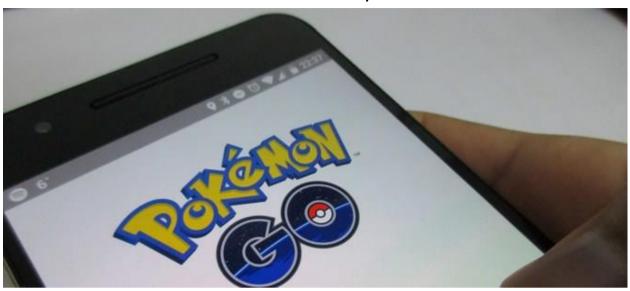
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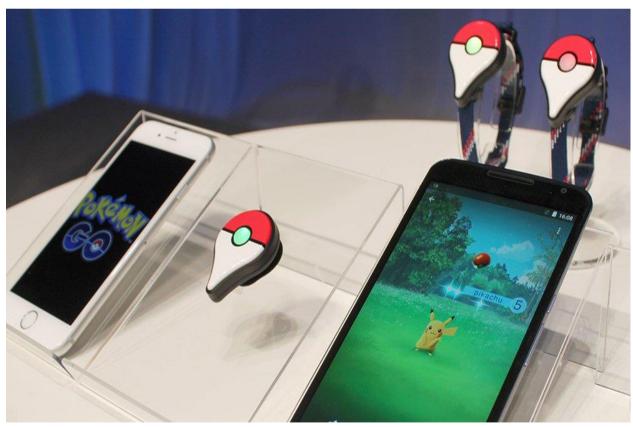
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### Pokemon Go Is A Healthy New Trend



http://www.opposingviews.com/i/health/pokemon-healthy-new-trend

#### Nintendo Stock Soars On Hit Mobile Game 'Pokemon Go'



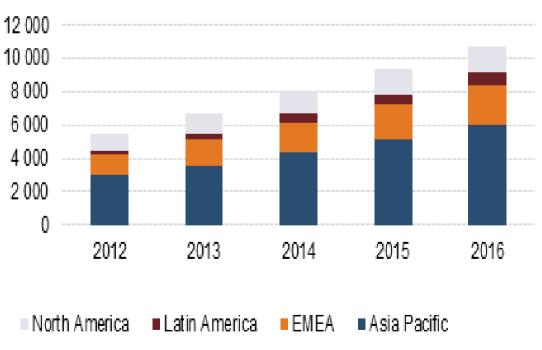
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The Biggest Trends in Social Gaming Right Now



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### What is the next big trend in social gaming?



https://www.quora.com/What-is-the-next-big-trend-in-social-gaming

# Major Trends in Social Gaming



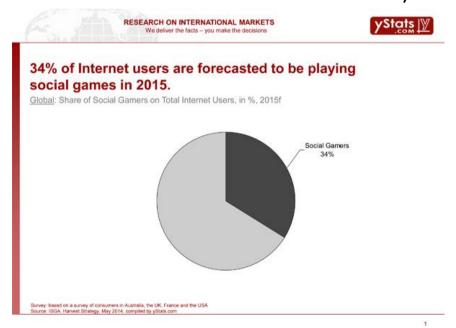
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# A REGIONAL BREAKDOWN OF THE \$99.6 BN GLOBAL GAMES MARKET (FREE REPORT)



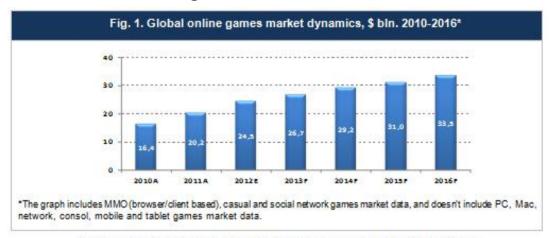
https://newzoo.com/insights/trend-reports/

#### Recent Trends in the Social Games Industry



http://blog.marketresearch.com/recent-trends-in-the-social-games-industry

#### Social Gaming Markets and Trends, 2012-2016



Source: data of foreign research companies and J'son & Partners Consulting

 $\frac{\text{http://search.proquest.com/docview/1545557033/fulltextPDF/1CC80B5AEFA847}}{\text{B7PQ/1?accountid=}11774}$ 

Top 5 trends that power mobile game marketing



 $\frac{http://venturebeat.com/2015/03/12/5-top-trends-that-power-mobile-game-marketing/}{}$ 

# 4 Hot Social Gaming Trends to Watch



http://mashable.com/2011/03/04/social-gaming-trends/#p5w6wCjwVuqC

# Trends in fast-changing social gaming



 $\frac{http://www.eurofast.eu/global/newsm/per-country/greece/671-trends-in-fast-changing-social-gaming}{changing-social-gaming}$ 

#### Mobile Social Games Market Statistics and Trends



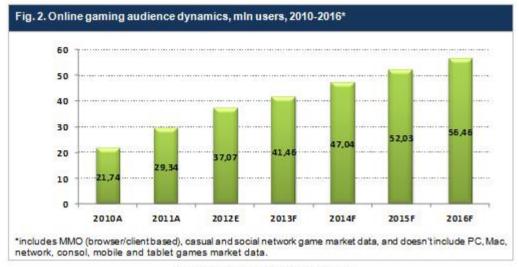
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#### Social Gaming Trends & Projections for 2015



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#### Russia's online games market, 2010-2016



Source: J'son & Partners Consulting

http://www.json.ru/en/poleznye\_materialy/free\_market\_watches/analytics/rossijski j\_rynok\_onlajn-igrb\_2010-2016\_gg/

#### Social Gaming Market Demand, Opportunity and Trends 2015



 $\frac{https://www.linkedin.com/pulse/social-gaming-market-demand-opportunity-trends-2015-raghav-sharma$ 

# Key trends in the games industry that will define 2016



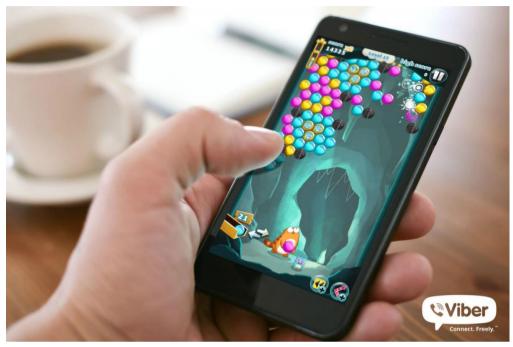
 $\frac{http://united\text{-}kingdom.taylorwessing.com/download/article-future-of-gaming-}{2016.html}$ 

#### 4 Key Social Media Marketing Trends To Lead The Game in 2016



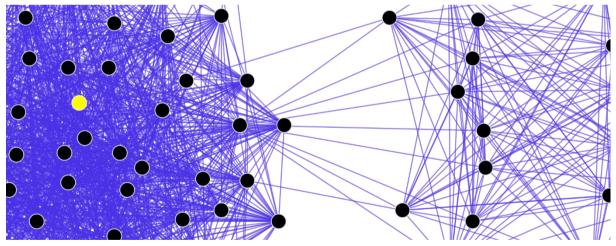
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# Messaging app Viber's new (and cute) social games are out now for iOS and Android



http://www.digitaltrends.com/mobile/viber-social-games-added-to-messaging-platform/

### Social Network Game Development in the US: Market Research Report



http://www.ibisworld.com/industry/social-network-game-development.html

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http://www.go-gulf.com/blog/social-gaming-industry/

2014 Global Gaming Stats: Who's Playing What, and Why?



 $\frac{http://www.bigfishgames.com/blog/2014-global-gaming-stats-whos-playing-what-and-why/}{}$ 

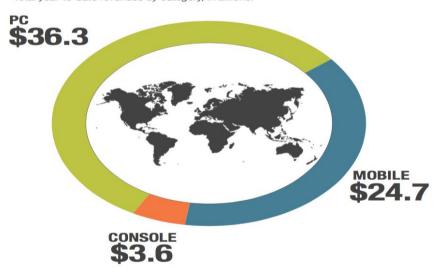
Video game trends for 2016: Virtual reality, further blurred lines between TV and gaming



 $\frac{http://www.latimes.com/entertainment/herocomplex/la-et-hc-1231-the-player-2016-20151231-story.html$ 

The Global Mobile Gaming Market: Trends, Drivers and Projections

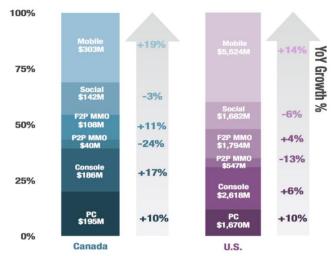
WORLDWIDE DIGITAL GAMES MARKET, 2015E
Total year-to-date revenues by category, in billions.



 $\underline{http://www.strategyr.com/MarketResearch/Wireless\_Gaming\_Market\_Trends.asp}$ 

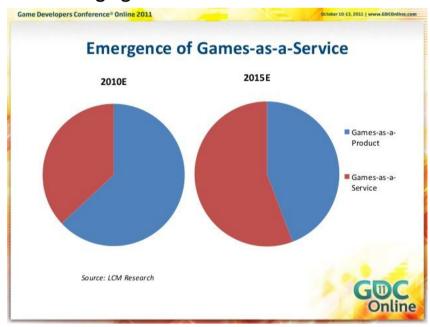
# Game Analytics: Platform Trends, Monetization and Player Value in Social Games





http://www.smartdatacollective.com/kchulis/43870/game-analytics-platform-trends-monetization-and-player-value-social-games

#### Emerging Trends in Games-as-a-Service



http://twvideo01.ubm-

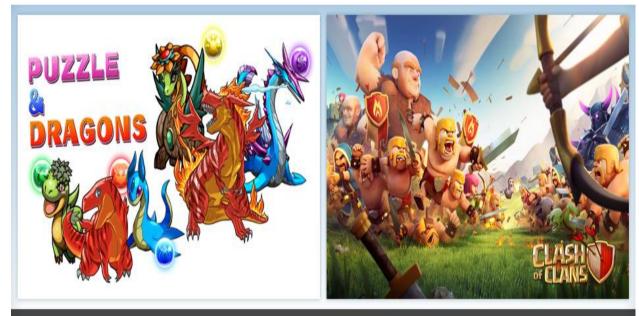
 $\frac{us.net/o1/vault/gdconline11/Atul\_Bagga\_Business\_Emerging\%20Trends\%20In\%2}{0GaaS.pdf}$ 

#### **GLOBAL SOCIAL GAMING MARKET 2015-2019**



 $\underline{http://www.technavio.com/report/global-social-gaming-market-2015-2019}$ 

# Mobile Gaming Strategy



SoftBank took bold action on its mobile gaming strategy in fiscal 2013. Here we introduce the strategy and the two Group companies that hold the key to its success.

http://www.softbank.jp/annual-reports/2014/en/businesses/game/

# "THE TWO MAIN TRENDS AT ICE 2016 WERE E-SPORTS AND SOCIAL GAMING"



http://www.btobet.com/en/news/the-two-main-trends-at-ice-2016-were-e-sports-and-social-gaming-exclusive-interview-for-yogonet

# Using Social Gaming to Drive Engagement: Insights and Best Practices for Brand Managers



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# Future of Gaming: 5 Exciting Emerging Trends



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Top 5 online gaming industry trends for 2015



 $\frac{http://www.internap.com/2014/12/01/top-five-online-gaming-industry-trends-}{2015/}$ 

### Current gaming trends



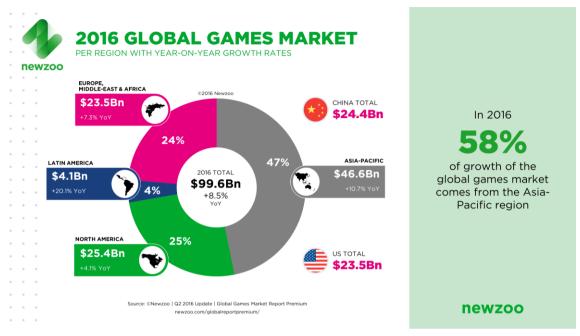
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Big data analytics for video, mobile, and social game monetization



http://www.ibm.com/developerworks/library/ba-big-data-gaming/

# THE GLOBAL GAMES MARKET REACHES \$99.6 BILLION IN 2016, MOBILE GENERATING 37%



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The Analysis of Russian and Global Game Markets in 2014-2016: Current Market Situation, Forecasts, Market Players, Projects and Tendencies



http://json.tv/en/ict\_telecom\_analytics\_view/the-analysis-of-russian-and-global-game-markets-in-2014-2016-current-market-situation-forecasts-market-players-projects-and-tendencies

#### The East Asian Smartphone Game Market Scale is 916.8 Billion Yen

Unit: 100 million yen 18,848 20,000 Hong Kong 15,682 Taiwan 15,000 12,454 South 9,168 10,000 Korea 4,792 China 5,000 Japan

2015

(Prediction)

[Figure 1] East Asian smartphone game market scale (according to country/region)

Source: CyberZ/Seed Planning

2016

(Prediction)

https://cyber-z.co.jp/en/news/the-east-asian-smartphone-game-market-scale-is-916-8-billion-yen-two-times-the-previous-year-and-will-reach-the-one-trillion-yen-mark-in-2014-japan-comprises-roughly-60-of-the-market-while-taiwan-h.html

2014

(Prediction)

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2012

2013

## Welcome to the future: We predict big trends in social games for 2012



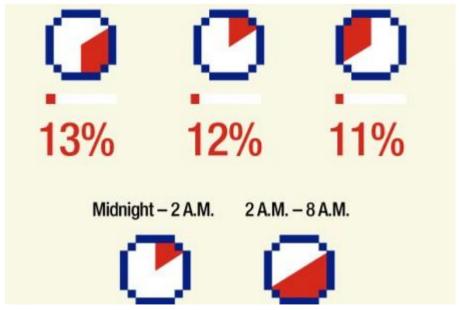
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# Online Gaming Industry in China: Stats and Trends [Infographics]



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# The German Gaming Industry: Europe's Biggest Gaming Market



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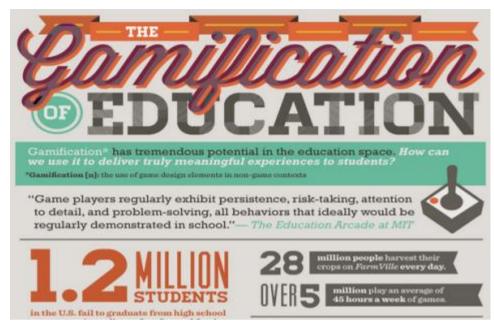
# Fashion to Embrace 'Social Gaming'



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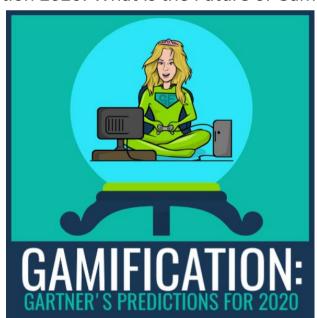
# GAMIFICATION OF EDUCATION AND LEARNING

#### The Gamification of Education



https://www.knewton.com/infographics/gamification-education/

#### Gamification 2020: What Is the Future of Gamification?



 $\underline{http://dotgroup.com.br/wp\text{-}content/uploads/2014/04/Gartner\text{-}2020\text{-}Trends.pdf}$ 

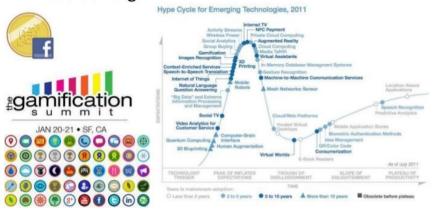
#### **Understanding Gamification Trends**



#### **Trends**

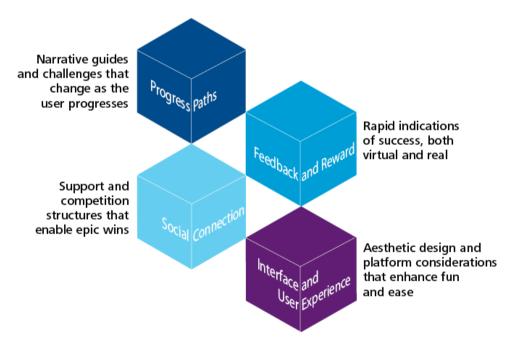


 Gamification, social layer and virtual currency are buzzing.



http://bigdoor.com/blog/2012/11/28/understanding-gamification-trends/

### Gamification: Engagement Strategies for Business and IT



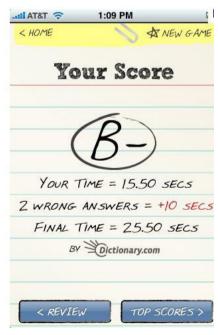
http://www.gartner.com/technology/research/gamification/

#### 3 Gaming Trends Investors Need to Watch in 2016



 $\frac{http://www.fool.com/investing/general/2016/02/07/3-gaming-trends-investors-need-to-watch-in-2016.aspx}{}$ 

#### Gamification of Education



https://badgeville.com/wiki/education

#### Gamification in Education



http://www.edutopia.org/blog/gamification-in-education-vicki-davis
Gamification in Education: Top 10 Gamification Case Studies that will
Change our Future



 $\frac{http://yukaichou.com/gamification-examples/top-10-education-gamification-examples/}{examples/}$ 

## The Intersection of Learning and Fun: Gamification in Education



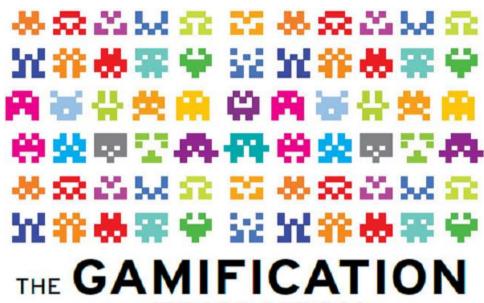
 $\underline{http://www.forbes.com/sites/barbarakurshan/2016/02/11/the-intersection-of-learning-and-fun-gamification-in-education/\#c4d77611d367}$ 

Gamification in Education: What, How, Why Bother?



https://www.academia.edu/570970/Gamification\_in\_Education\_What\_How\_Why\_Bother?auto=download

#### The Gamification of Education



# OF EDUCATION

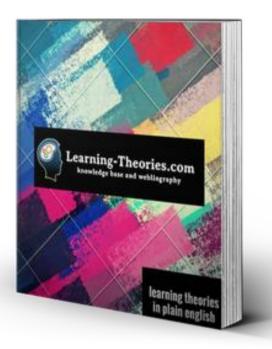
http://edtechreview.in/news/324-examples-gamification-in-education

4 Ways To Bring Gamification of Education To Your Classroom



http://blog.tophat.com/4-ways-to-gamify-learning-in-your-classroom/

#### **GAMIFICATION IN EDUCATION**



http://www.learning-theories.com/gamification-in-education.html

What is Gamification and Why Use It in Teaching?

Understanding Defining Audience and Learning Context Objectives Structuring the Experience Resources Gamfication

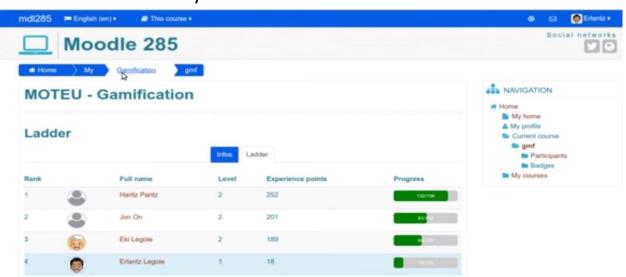
 $\frac{http://ii.library.jhu.edu/2014/05/13/what-is-gamification-and-why-use-it-in-teaching/}{}$ 

Play to Learn: 100 Great Sites on Gamification



http://top5onlinecolleges.org/gamification/

How to Effectively Use Gamification in Education with Moodle



http://edtechreview.in/research/2055-guide-gamification-in-education

#### Gamification in Education: the Good, the Bad and the Ugly



http://www.itworx.education/gamification-in-education/

# Gamification, personalization and continued education are trending in edtech



https://techcrunch.com/2016/04/08/1301192/

## 3 Keys To Gamification For Education

Game	Game-based Learning	Gamification	
Games are just for fun, and may or may not have defined rules & objectives	Games have defined learning objectives	May just be a collection of tasks with points or some form of reward	
Winning and losing is a part of the game	Losing may or may not be possible because the point is to motivate people to take some action and learn as an end result	Losing may or may not be possible because the point is to motivate people to take some action and do something.	
Game play comes first, rewards are secondary	Sometimes just playing the game is intrinsically rewarding	Being intrinsically rewarding is optional.	
Games are usually hard and expensive to build	Are usually hard and expensive to build	Gamification is usually easier and cheaper	
Story and scenes are part of the game	Content is usually morphed to fit the story and scenes of the game	Usually game-like features are added to the LMS or any other system rather than the content	

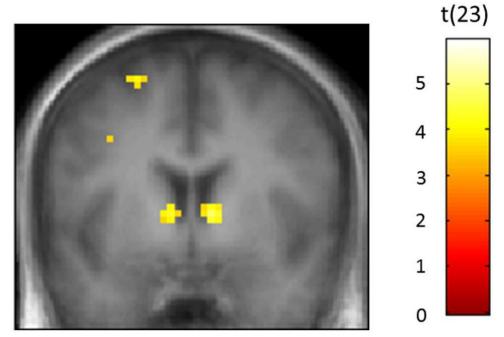
http://www.informationweek.com/mobile/mobile-devices/3-keys-to-gamification-for-education/d/d-id/1109937?

Gamification: The Future of Education



https://www.ucf.edu/pegasus/level-learn/

## Gamification of Learning Deactivates the Default Mode Network



http://journal.frontiersin.org/article/10.3389/fpsyg.2015.01891/full

## Gamification of Education: 260% increase in student activity



 $\frac{https://www.academyofmine.com/how-gamification-led-to-a-260-increase-instudent-activity/}{student-activity/}$ 

# The model for introduction of gamification into e-learning in higher education



 $\frac{\text{http://ac.els-cdn.com/S1877042815041555/1-s2.0-S1877042815041555-}{\text{main.pdf?\_tid=}90470258-4a0a-11e6-8363-}\\00000aab0f01\&acdnat=1468532171\_80728ab675039c3ed23fc543b08a48b0}$ 

Trend 9: Gamification



http://www.core-ed.org/thought-leadership/ten-trends/ten-trends-2014/gamification

### Gaming and education; a match made in heaven?



http://www.stucomm.com/blog/gaming-and-education-a-match-made-in-heaven/

## Gamification and game-based learning



https://www.jisc.ac.uk/guides/curriculum-design-and-support-for-online-learning/gamification

#### By the Numbers: 10 Stats on the Growth of Gamification



 $\frac{http://www.games and learning.org/2015/04/27/by-the-numbers-10-stats-on-the-growth-of-gamification/}{}$ 

#### Gamification and Education: A Literature Review

Gamification and Education:
a Literature Review

Ilaria Caponetto, Jeffrey Earp, Michela Ott

Institute for Educational Technology
Italian Research Council

ECGBL 2014 - Berlin 09-10 Oct. 2014

http://www.itd.cnr.it/download/gamificationECGBL2014.pdf

## How Gamification in Education Can Triple Student Engagement



 $\underline{http://www.bunchball.com/blog/post/1629/how-gamification-education-can-triple-\underline{student-engagement}}$ 

# Interactive content and gamification: Key trends shaping education



 $\frac{https://educators.co.nz/story/interactive-content-and-gamification-key-trends-shaping-education/}{}$ 

# Learning Redesigned: Can Gamification Save Higher Education?



http://technologyadvice.com/blog/information-technology/learning-redesignedcan-gamification-save-higher-education/

# Can Gamification offer education engaging learning opportunities?



https://www.banqer.co/blog/gamification

# Modern Educational Methods - Gamification at Schools of Higher Education in Poland



https://ideas.repec.org/p/sek/iacpro/3506050.html

The state of play – gamification in education is here



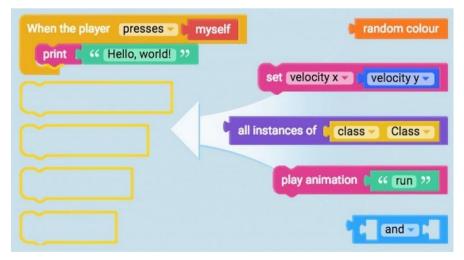
 $\underline{http://www.internationalinnovation.com/institute-of-play/}$ 

# Games Grow Up: Colleges Recognize the Power of Gamification Universities enliven education through the power of play



 $\frac{http://www.edtechmagazine.com/higher/article/2013/03/games-grow-colleges-recognize-power-gamification}{recognize-power-gamification}$ 

#### **Tool For Creating Educational Games**

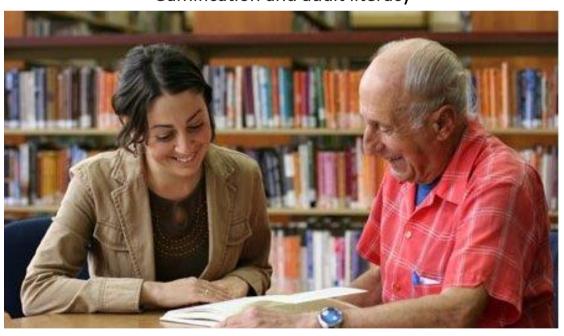


 $\underline{http://www.learndash.com/tool-for-creating-educational-games/}$ 

# The Trouble with Gamification



http://www.onlineuniversities.com/blog/2012/07/the-trouble-gamification/ Gamification and adult literacy



 $\frac{http://www.llsc.on.ca/sites/default/files/Gamification\%20 and \%20 Adult\%20 Literac}{y.pdf}$ 

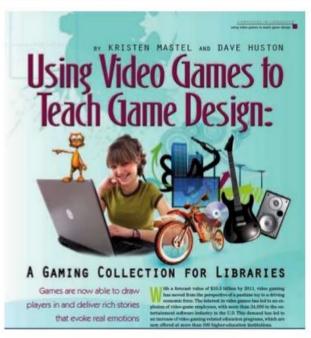
#### 5 Benefits of Adding Gamification to Classrooms



http://www.teachercast.net/2016/03/01/5-benefits-of-adding-gamification-to-classrooms/

Information Literacy & Gamification Using Minecraft

#### Video games are now considered a literary genre.



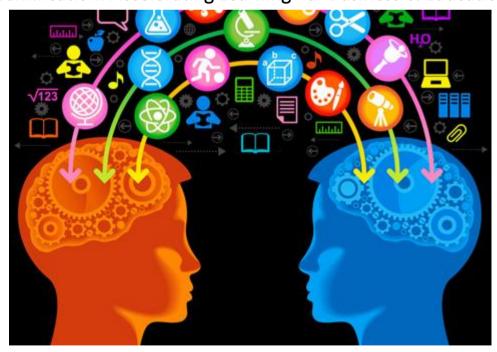
 $\frac{http://www.slideshare.net/valibrarian/hill-al-amw2014information-literacy-gamification-using-minecraft}$ 

# Gamification - The Answer to Improving Motivation and Creating a Better Educational System



https://www.linkedin.com/pulse/gamification-answer-improving-motivation-creating-better-kovin

#### Gamification: Accelerating Learning For Business & Education



http://gettingsmart.com/2012/05/gamification-a-rapidly-trend-that-will-accelerate-learning-for-business-education/

# Gaming the Classroom: The art and Science of Game Based Learning



http://www.online-education-degrees.net/gaming-the-classroom/

# Gamification in the Classroom: The Right or Wrong Way to Motivate Students?



http://neatoday.org/2014/06/23/gamification-in-the-classroom-the-right-or-wrong-way-to-motivate-students/

# 5 Differences Between Education Games and the Gamification of Education

	Education Games	Gamification of Education
1.	Points, achievements, and rewards are one element of the system	Focus on points, achievements, and rewards
2.	Strive to present the right level of challenge to the player	Targeting level of challenge seldom considered
3.	Narrative and characters common	May include player avatar and/ or weak story
4.	Focus on conceptual change	Focus on behavioral change
<b>5</b> .	Simulated environment provides player scaffolding	Applied to real environment without scaffolding

http://researchnetwork.pearson.com/digital-data-analytics-and-adaptive-learning/5-differences-education-games-gamification-education

#### The Future of Gamification



 $\underline{http://www.pewinternet.org/2012/05/18/the-future-of-gamification/}$ 

#### Gamification in Education: It's Time Education Leveled Up [Infographic]



 $\underline{http://takelessons.com/blog/gamification-in-education-guest-post-z15}$ 

Gamification in Education: What Are We Doing Wrong?



http://emantras.us/gamification-in-education-what-are-we-doing-wrong/

# BEYOND THE BUZZWORD: GAMIFICATION IS THE FUTURE OF CULTURE AND BUSINESS



http://betakit.com/beyond-the-buzzword-gamification-is-the-future-of-culture-and-business/

#### **GARTNER'S GAMIFICATION PREDICTIONS FOR 2020**



http://www.growthengineering.co.uk/future-of-gamification-gartner/

## The future of gamification: evolution not revolution



http://www.information-age.com/it-management/skills-training-and-leadership/123459853/future-gamification-evolution-not-revolution

# Serious Games: The Future of Gamification in Learning



 $\underline{http://blog.whooosreading.org/serious-games-the-future-of-gamification-in-learning/}$ 

Informaatioteknologian tiedekunnan julkaisuja No. 30/2016

