

# **CASINO REPORT**

Competitive Research and Actionable Product Recommendations

# **D** LIQUID&GRIT

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# DECEMBER

# **REVENUE DRIVERS**

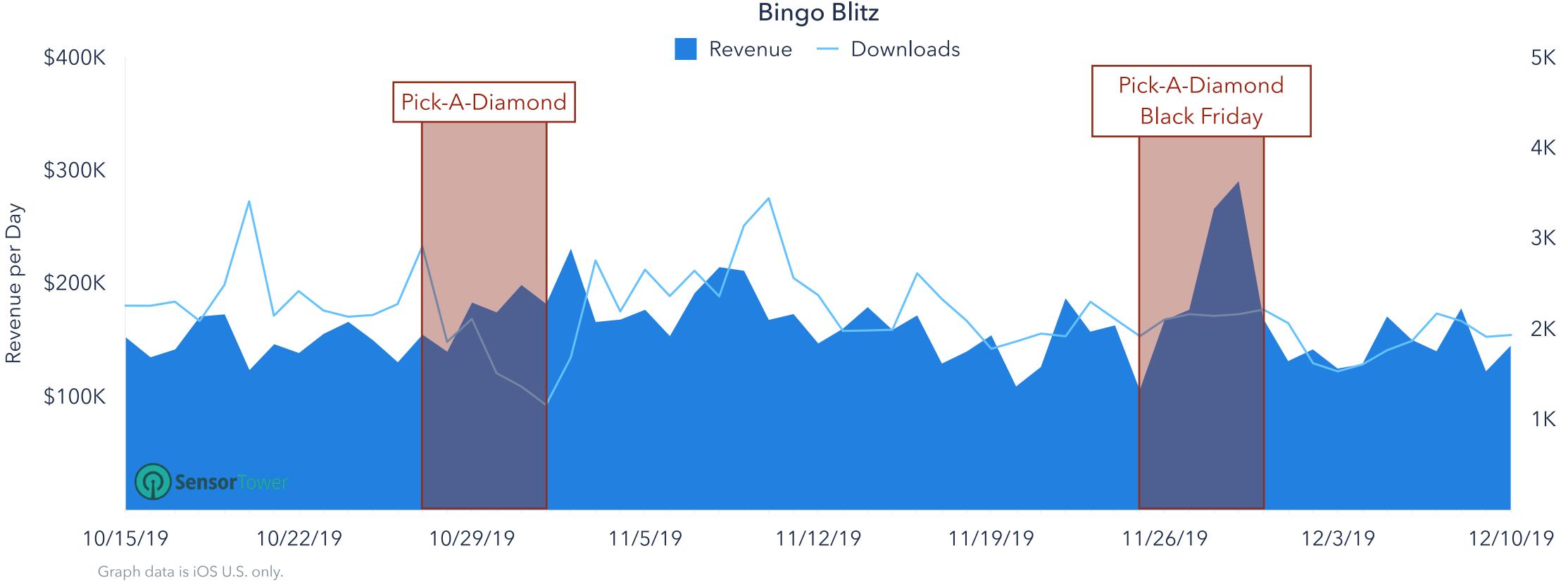


## CASINO > EVENTS > MINI-GAMES

# SCRATCH CARD PROGRESSION EVENTS Pick-A-Diamond in *Bingo Blitz*

# **REVENUE ANALYSIS**

During the two most recent releases of Bingo Blitz's Pick-A-Diamond mini-game event, revenue averaged +25.6% WoW and +14.1% 2Wo2W.



WoW = this week over last week.

#### Releases

8/28-ongoing: <u>Euro Bites</u> collection feature 10/27-11/1: <u>Pick-A-Diamond</u> mini-game event 11/25: <u>Charlie's Wish</u> expansion feature 11/25-11/30: Pick-A-Diamond Black Friday mini-game event 11/28: Version update No IAP changes during this time.



# Download

# **FEATURE TEARDOWN**

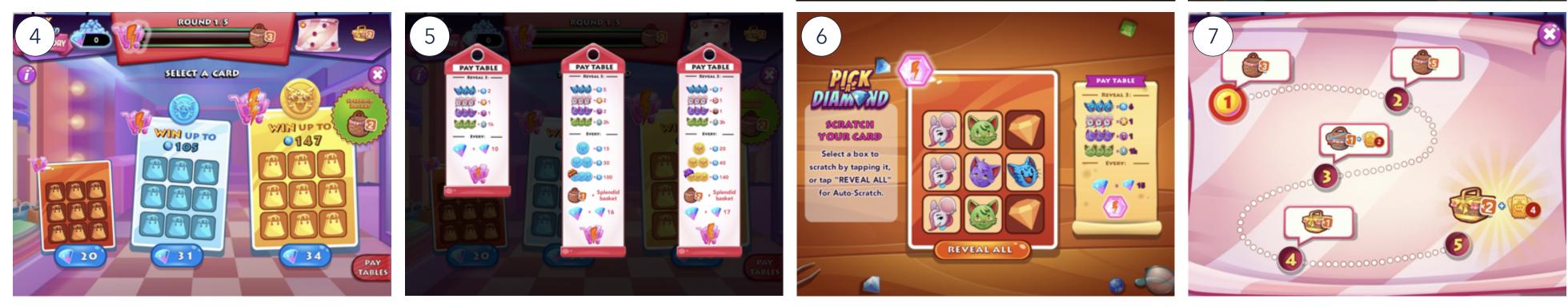
## Players collect diamonds, an event currency, from bingo cells and IAP bundles. Diamonds are used to buy scratch cards that advance players on a prize map.

#### Details

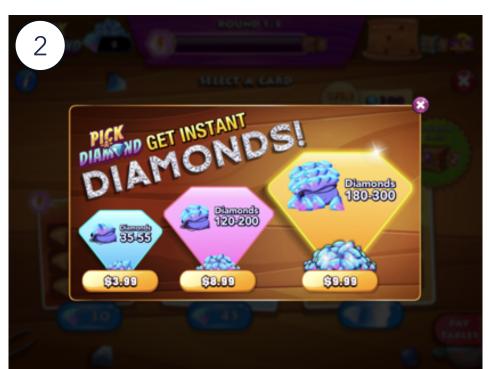
- Players collect diamonds by:
  - Daubing bingo cells (<u>1</u>).
  - Buying event IAP bundles (<u>2</u>).
  - Inviting friends (<u>3</u>).
- Diamonds can be spent on three tiers of scratch cards (<u>4</u> and <u>video</u>).
- Scratch cards award boosts, credits, diamonds, and lightning gems ( $\frac{5}{2}$  and  $\frac{6}{2}$ ).
- Lightning gems fill a meter that advances players on a prize map  $(\underline{7})$ .
- Completing the map awards a grand prize.

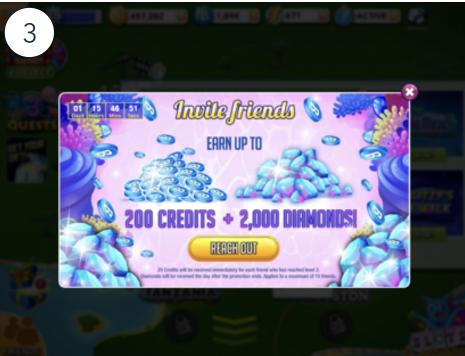
#### **Additional Information**

• See the <u>Pick-A-Diamond</u> and <u>Pick-A-Diamond Black Friday</u> (reskin) Libraries.











# **PRODUCT INSIGHTS**

## Add event-specific currency and bundled IAP sales to linear progression mechanics. Frame these large IAP sales as discounts, use percentages, and offer three strategically priced packages.

#### Revenue

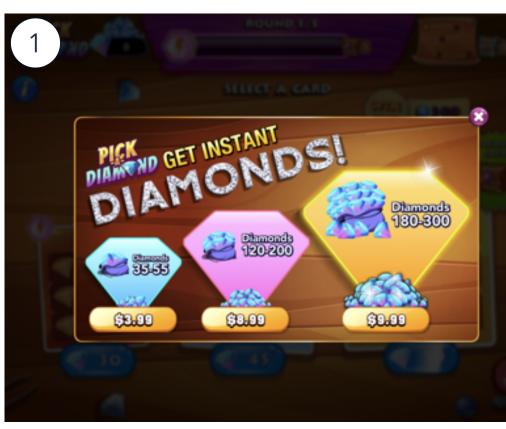
- Include event currency in IAP bundles and lock desirable rewards behind linear progressions. Based on our analysis of <u>custom design events</u> in top-grossing puzzle apps, events that combine IAP sales of event currency with linear progressions of event-exclusive unlockable items produce larger revenue growth.
- Offer three packages with two distinctly higher price points. Customers assess a package's value based on the other prices offered and are most likely to buy at the middle and highest price points regardless of the actual prices (Pricing <u>Psychology</u>). Compare the results of a study on beer purchases across three different pricing structures:
  - Test 1: \$1.80 (20% of purchases) and \$2.50 (80% of purchases) = \$2.36 per customer
  - Test 2: \$1.60 (0%), \$1.80 (80%), and \$2.50 (20%) = \$1.94 per customer
  - Test 3: \$1.80 (5%), \$2.50 (85%), and \$3.40 (10%) = \$2.56 per customer

Test 3 generated 8% more revenue than test 1 and 32% more than test 2. Pick-A-Diamond prices packages at \$3.99, \$8.99, and 9.99 to maximize revenue from the higher-priced options (1).

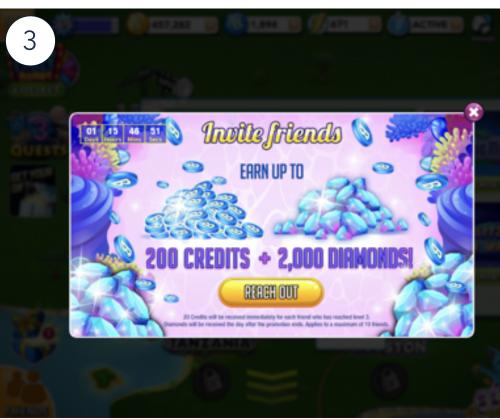
- Use images on the buy page. Customers perceive digital storefronts with images as having greater variety and accuracy than those with only text (The "Visual Preference Heuristic", p. 1008). Pick-A-Diamond's buy page uses images to clearly communicate the contents of different IAP tiers (2)
- Frame large sales as "Save \_\_%!" Customers prefer discounts to bonuses and percentages to dollar amounts for sales with deep benefits (<u>Consumer evaluations of different promotion types and price presentations</u>). Using percentages also reduces discounts' negative impact on future purchase decisions (<u>Cents or Percent?</u>, p. 167).

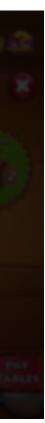
#### DAU

• Grow your player base with word-of-mouth incentives. According to a 2019 report by Comscore, 30% of app users said they based download decisions on recommendations from family and friends. Pick-A-Diamond rewards players with event and primary currency for inviting friends (<u>3</u>). Other apps, including <u>Legendary Game of Heroes</u>, <u>WSOP</u>, <u>Wizard of Oz</u>, and Zvnga Poker, have also released referral features or events.













## **CASINO > FEATURES > EXPANSIONS**

# **PROGRESSION CHOICE MECHANICS** Merry Maze in Bingo Bash

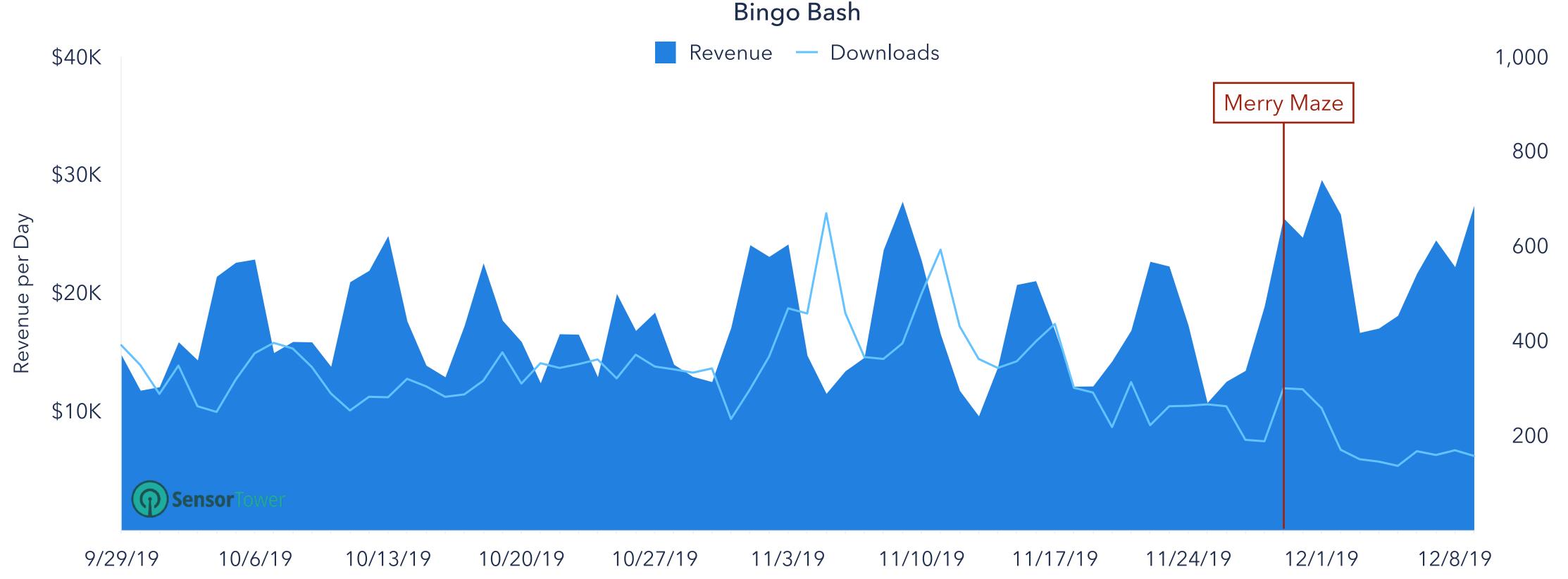






# **REVENUE ANALYSIS**

#### **Bingo Bash's revenue was +29% WoW after the release** of the Merry Maze expansion feature.



Graph data is iOS U.S. only.

Releases 11/25: Version update 11/25: <u>Snowy Sprint</u> expansion feature 11/25-11/27: <u>Treasure Hunt</u> mini-game event 11/27-11/29: Up, Up and Away competition event (FB) 11/28–12/2: Thank You Bashers purchase events (1, 2, 3, and 4)11/29: <u>Merry Maze</u> expansion feature 11/30-12/7: Merry Maze Win Extra Chips challenge event (<u>FB</u>) No IAP changes during this time.







# **FEATURE TEARDOWN**

### Players win bingos and collect puzzle pieces to earn tools. Tools are used to clear obstacles from maze levels.

#### Details

- Players win bingos by clearing all elves' paths to the workshop (<u>1</u>).
- Daubing green cells awards puzzle pieces.
- Winning a bingo or collecting 10 puzzle pieces awards one of the available tools (<u>2</u> and <u>video</u>).
- Each tool clears a specific obstacle in maze levels  $(\underline{3})$ .
- Players choose a path on the maze to collect bells (<u>4</u> and <u>video</u>).
- Collecting all the bells completes the level and fills a prize meter.
- Additional tools unlock as players complete maze levels (<u>5</u>).

#### **Additional Information**

• See the <u>Merry Maze</u> Library for more images and videos.









# **PRODUCT INSIGHTS**

## Reward luck, skill, and effort in events that allow player choice. Add customizable elements to increase intrinsic motivation. For recurring events, use loyalty programs to improve event retention.

#### **Event Engagement**

- Construct systems that reward luck, skill, and effort. Merry Maze rewards players for luck when winning a bingo, for skill when completing a maze, and for effort when filling the prize meter. Gobblin' Candies, another Bingo Bash event with a similar reward system, increased revenue by 41% 2Wo2W (<u>1</u> and <u>video</u>). Many successful games use luck-or the appearance of luck-to soften the demands of pure skill. For example, *League of Legends* has an invisible "pity" timer" that awards players after a period of bad luck (How Designers Engineer Luck Into Video Games).
- Add more intrinsic rewards. Research has found that even limited character customization heightens players' enjoyment and intrinsic motivation, increasing engagement and play time (Fostering Intrinsic Motivation through Avatar Identification, p. 8). Consider adding optional customization rewards to mechanics that allow player choice, such as unlockable elf outfits in maze levels. The average revenue increase from custom design this year in Fishdom and *Homescapes* is 21.5% WoW (<u>December 2019 Puzzle Report</u>, p. 10).

#### **Event Retention**

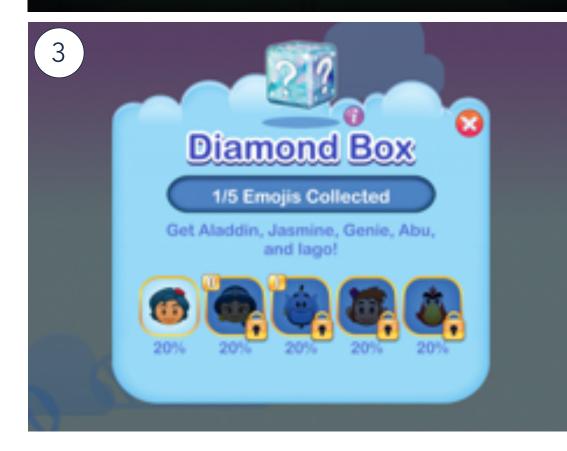
• Retain player progress across recurring events with an event-specific loyalty program. Game-wide loyalty programs drive revenue-so why not append them to recurring events? A study found that loyalty programs increase purchase frequency, transaction size, and loyalty among light and moderate spenders (<u>The Long-Term Impact of Loyalty</u> Programs, p. 26-29). In Bingo Blitz's Euro Bites, which boosted revenue by 23% WoW, players improve their ranks for better rewards and faster progression. These ranks carry over to future events, similar to a loyalty program ( $\frac{2}{2}$ ).

#### **Ecosystem Health**

• Show drop rates for items. Not only is this beneficial for the long-term health of players, but it may also reduce regulatory risk: lawmakers across the E.U., U.S., U.K., and Australia have either already made or are currently campaigning for regulatory changes around loot boxes (Is it time to give loot boxes the boot?). In Disney Emoji Blitz's <u>Diamond Box</u>, players can see the probability of winning each character from a chest (3).







# MARKET WATCH



# NOTABLE RELEASES I

Арр	Library	
Bingo Bash	<u>Unlimited Free Play</u> purchase event	<ul> <li>Players can purchase 30 minutes \$10.99 (<u>1</u>).</li> </ul>
Cash Frenzy	<u>Mission Pass</u> mission feature	<ul> <li>Players complete daily missions to</li> <li>Filling the meter increases players</li> <li>The free pass rewards players eve</li> <li>Two purchasable pass options ad</li> <li>The \$17.99 option awards 20 pas</li> </ul>
Cashman Casino	<u>Robot Factory</u> collection event	<ul> <li>Players earn bolts by betting above</li> <li>Bolts are used to purchase upgrate</li> <li>Each body part has three tiers of</li> <li>Upgrading the robot awards coin</li> </ul>

#### Description

of unlimited play for \$4.99 or 60 minutes for

to fill a meter.

ers' pass level.

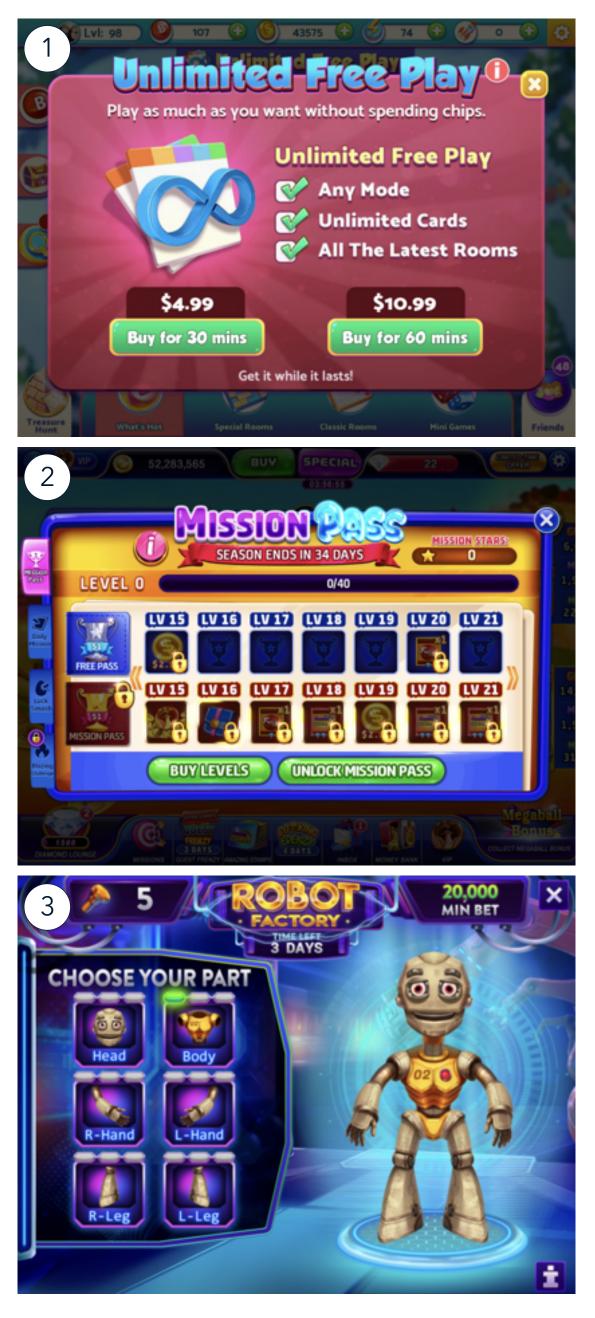
very five levels.

dd rewards to all levels (2).

ass levels and additional items.

ove the minimum. aded body parts for a robot (<u>3</u>). f upgrades.

n prizes.





# NOTABLE RELEASES II

Арр	Library	D
DoubleDown	<u>Journey Beta</u> quest event	<ul> <li>Players complete challenges in eight</li> <li>Each stage has three challenge made</li> <li>Completing a challenge awards a st</li> <li>Collecting the specified number of</li> <li>Players are ranked based on their to</li> </ul>
Governor of Poker 3	<u>End of Year</u> <u>Calendar</u> mission feature	<ul> <li>Players complete daily missions on</li> <li>At the end of the event, players eard</li> <li>Players can pay to claim missed day</li> </ul>
House of Fun	<u>HoF Album</u> collection feature	<ul> <li>Players spin or purchase coin packa</li> <li>Higher bets award rarer card packs.</li> <li>Each pack contains up to four cards</li> <li>Completing card sets rewards playe</li> <li>A new Lucky Card allows players to</li> </ul>

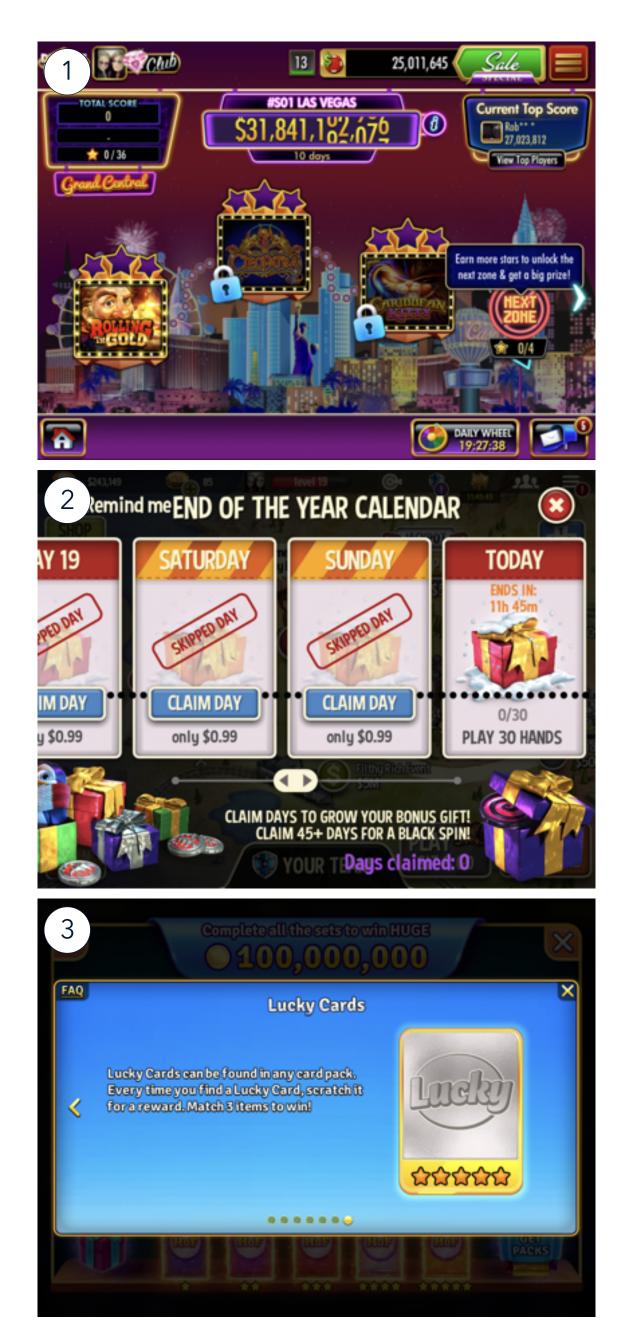
#### escription

- ht stages to compete on a leaderboard. achines.
- star.
- stars unlocks the next stage (1).
- total scores.

n a calendar to collect rewards. rn a bonus for the number of days claimed. ays (<u>2</u>).

ages to collect card packs.

- s.
- /ers.
- scratch for a reward ( $\underline{3}$ ).





# NOTABLE RELEASES III

Арр	Library	De
POP! Slots	<u>Win Zone</u> <u>Exclusive Content</u> competition event	<ul> <li>These one-day tournaments began a scheduled in featured and progress</li> </ul>
Slotomania	<u>Lucy's Big</u> <u>Makeover</u> other feature	<ul> <li>Purchasing and breaking a piggy ba</li> </ul>
	<u>Personal Profile</u> profile feature	<ul> <li>A new "Stash" section in players' pro</li> <li>A limited-time IAP bundle accompany</li> </ul>

Quickly review all features and machines

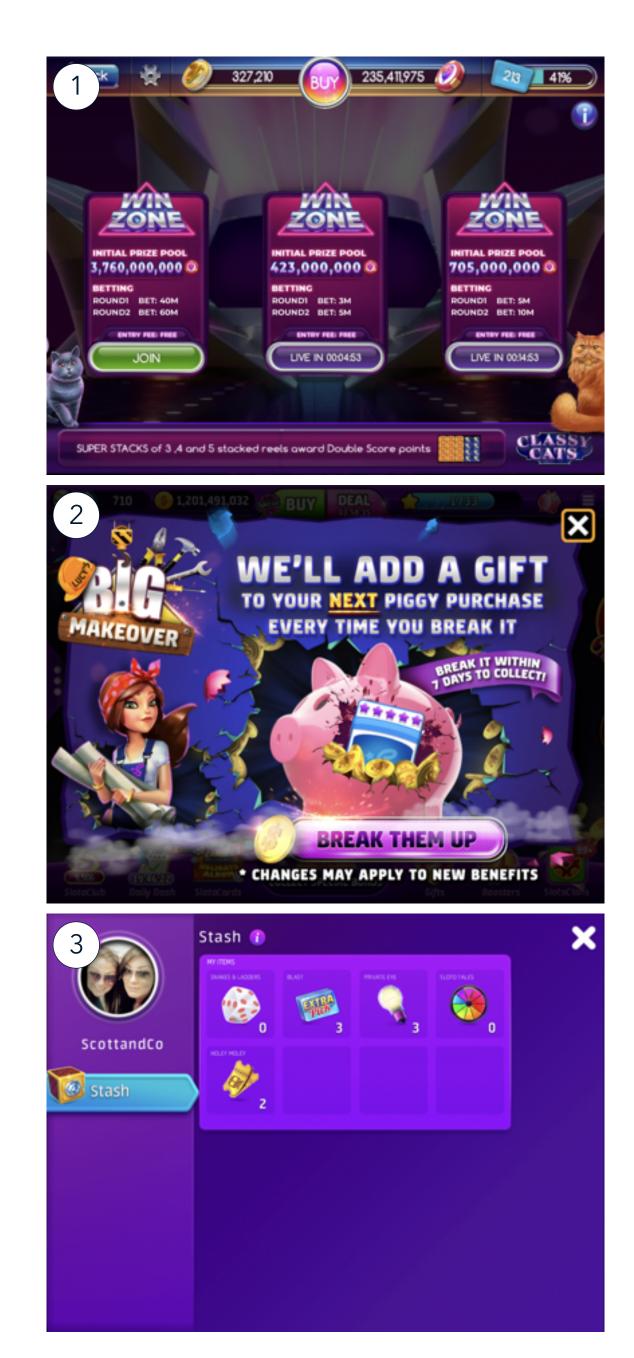
• Filter the Library Tool by month and year to see all new releases.

#### escription

n as limited-time events and are now regularly sion machines (<u>1</u>).

bank adds a gift to the next piggy bank ( $\frac{2}{2}$ ).

ofiles shows all earned items (<u>3</u>). anied the feature release.









# LIQUID AND GRIT SLOTS PERSONAS

#### Participants from the U.K. and U.S. (N=1,299) were surveyed about their mobile gaming use. The data produced five personas with distinct patterns of slots preferences and playing habits.

	Demographics				
	Fame Frank	Money Mike	Daydreamer Denise	Gambler Gail	Sensation Serena
Size	21%	22%	27%	19%	11%
Women	50%	51%	66%	60%	55%
Age	32 mean / 30 median	34 mean / 32 median	35 mean / 34 median	35 mean / 33 median	35 mean / 32 median
Education	3.5	3.3	3.5	3.2	3.3
Noney Spent	4.2	4.9	3.5	5.4	5.8
Play Time	5.0	4.5	5.0	4.9	6.5



\* The education, money spent, and play time numbers represent the relative value of each category compared to other player personas.













# **PREMIUM PARTNERSHIPS**

reports with the most relevant and detailed gaming personas, data, and statistics available.

#### **Sensor Tower**

#### **Mobile App Store Intelligence**

Sensor Tower website

Sensor Tower is relied upon by financial analysts, VCs, and publishers who need to leverage data to identify the fastest-growing apps, emerging markets, and more.

Clients harness Sensor Tower's suite of app intelligence tools to:

- Evaluate app economies and app vitality.
- Drive organic growth with the leading App Store Optimization platform.
- Get the best global download and revenue estimates for the App Store and Google Play.
- Discover top creatives and better shape user acquisition strategy.

#### **Player Personas**

Kinrate Analytics website

Kinrate Analytics offers game developers, Quadrant Strategies is a market research consultants, publishers, and cloud gaming consultancy that uses research to help the world's operators the best cross-platform game most prominent technology, gaming, and recommendation engine for targeted marketing, as entertainment companies develop strategies for well as a novel profiling-as-a-service solution for building their user base, increasing user engagement and spend, and strengthening their intelligent market segmentation and social marketing and brand plans. networking.

Other services include advanced market prediction analyses for identifying emergent gaming trends and access to unique AI-enhanced data of 140 thousand game titles and 48 million game players.

The products of Kinrate Analytics have been developed in university-led research projects in collaboration of economists, psychologists, game scholars, and data scientists.



# Liquid and Grit partners with these premier market research and analytics companies to infuse our

#### **Kinrate Analytics**

#### **Quadrant Strategies**

#### **Market Research**

**Quadrant Strategies website** 

We do that using a range of quantitative and qualitative methodologies, including gamer segmentation and persona development, feature testing, message creation, and loyalty and engagement modeling. The work of our senior leadership goes back many years, and includes long-term engagements for console and gaming-PC hardware-makers, individual games in a range of genres, and across consoles, PCs, and mobile, and for some of the top game franchises.



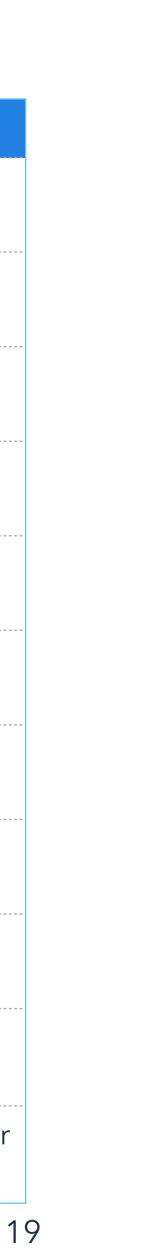




# **CASINO MECHANICS TAXONOMY**

Family	Definitions
<u>Accelerators</u>	Increases the power, impact, or efficiency of play
<u>Banks</u>	Saves a % of spend that can be unlocked later
<u>Bonuses</u>	Free bonuses given to players, often with time intervals
<u>Challenges</u>	Goal-oriented tasks for players to complete
<u>Clubs</u>	A group of players accomplishing goals or competing with other groups
<u>Collections</u>	A set of items players collect, often for a completion prize
<u>Competitions</u>	Players competing against other players
<u>Cosmetics</u>	Improvements or updates to the game or a feature
<u>Currencies</u>	Changes to currencies, economies, stores, and items
<u>Expansions</u>	Additional rooms, worlds, play modes, VIP lounges, etc.
<u>Flows</u>	Specific flows, like the new user flow, ratings, and surveys

Family	Definitions
Interactions	Any social feature with direct or indirect interaction
<u>Leaderboards</u>	Stand-alone leaderboards
 <u>Levels</u>	Anything to do with leveling
 <u>Mini-Games</u>	Smaller, shorter games within the app (e.g., scratch cards)
<u>Missions</u>	A linear set of tasks that players must accomplish
<u>Notices</u>	Feature or product announcements
 <u>Other</u>	Miscellaneous features and outliers
 <u>Profiles</u>	A player's setup, profile, settings, and controls
 <u>Purchases</u>	Anything to do with spending money on items in the app
 <u>Quests</u>	Completing tasks to progress along a map or map-like mechanic
<u>Rewards</u>	Any reward players receive for engagement or spend (other than in the bonuses family)



– Albert Einstein

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# "Logic will get you from A to B. Imagination will take you everywhere."

<u>LiquidandGrit.com</u>



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Brett.Nowak@LiquidandGrit.com