

Competitive Research and Data Insights for Slots Designers

DLIQUID&GRIT

Slots Design Report

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SEPTEMBER

2019



SUPPLEMENTAL

Cash Frenzy's Golden Island Treasure, one of our New Innovations last month, was heavily influenced by *Slotomania*'s "Infinite Freedom" (IF) machines.

Details on IF Machines

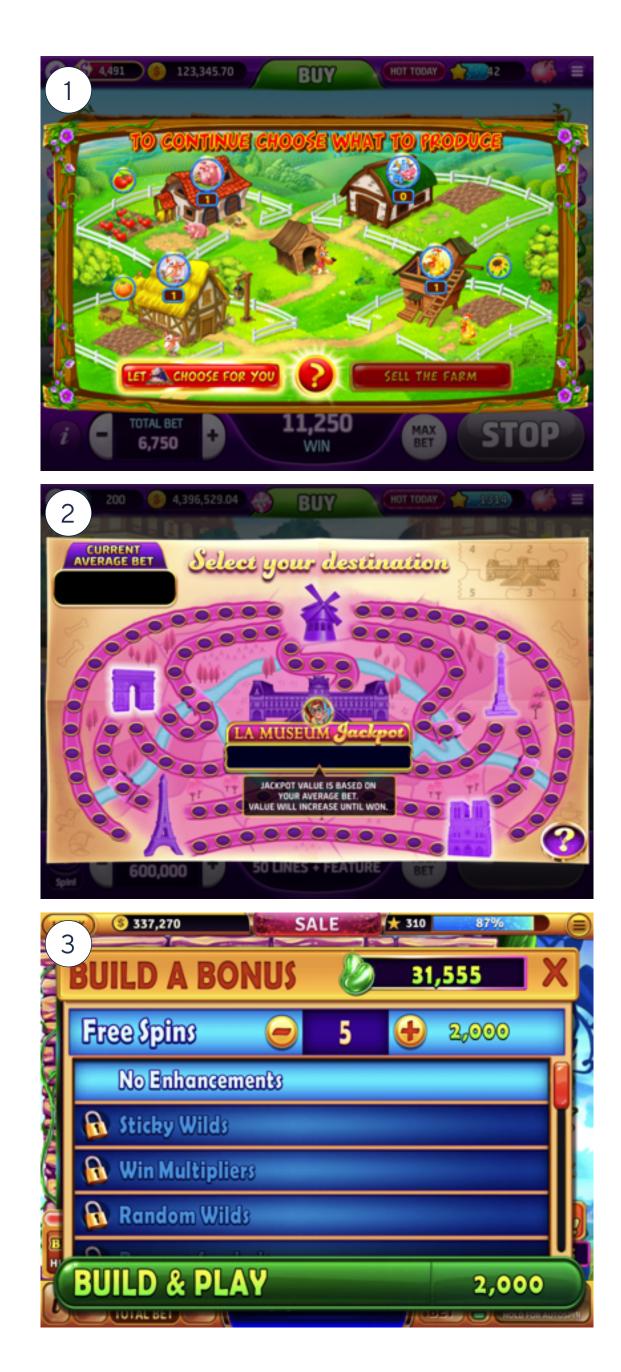
- IF machines are designed to let players pick a path, increasing machine replayability.
- The IF progression system is a different technology from SlotoQuest even though the map layout appears similar (SlotoQuest was referenced in the August 2019 Slots Design Report).
- Although Cash Frenzy did add variations to Golden Island Treasure (as noted below), the progression system is very similar to the progression in *Slotomania*'s IF machines.
- Review Cash Frenzy's Golden Island Treasure machine in the In-Machine Quests Wiki page for more information.

IF Machines

- Farm Fortune Markets in Slotomania 9/17/18 (1)
- My Dear Puppy in Slotomania -1/25/19 (2)
- Return to Giant's Treasure in House of Fun 3/25/19 (3)
- <u>Civilitreasures Merchants</u> in Slotomania 6/7/19

Differences Between Golden Island Treasure (GIT) and My Dear Puppy (MDP)

- <u>Themes</u>: Pirates in GIT, puppies in MDP.
- Paylines: 20 lines in GIT, 50 lines in MDP.
- **Respins:** Pirate ship multi-matrix respins in GIT, wild respins in MDP.
- Jackpots: In GIT, the jackpot is triggered by collecting symbols during play and in the final island bonus game. In MDP, players must unlock the sixth area for a jackpot pick'em bonus to win the La Museum jackpot.
- Free Spins: In GIT, a <u>collection mechanic</u> triggers the free spins. In MDP, <u>landing three symbols</u>.





NEW INNOVATIONS

WIKI > CONTENT > SOCIAL

CASCADING MULTIPLIERS ON PRIZE TOWERS Sword of Destiny in Jackpot Party



5

MECHANIC TEARDOWN

In Sword of Destiny, there are two prize towers: one with cascading multipliers during free spins and another that increases in value based on numbers selected during a pick'em bonus.

Cascading Multipliers Prize Tower

- Players land three X Zone symbols to trigger eight free spins (1).
- On the prize tower, multipliers are assigned to each symbol $(\underline{2})$.
- The assigned multiplier is applied to a win with that symbol.
- Winning multipliers are removed from the prize tower, causing new multipliers to cascade down ($\underline{3}$ and <u>video</u>).
- Every extra X Zone symbol awards an additional free spin (4).

Pick'em Bonus Prize Tower

- Three stone symbols trigger a pick'em bonus with a prize tower (5).
- Players get three picks in the pick'em game.
- Each pick moves players 1-6 steps up the prize tower, depending on the selection (video).
- The level reached on the tower determines the jackpot value ($\underline{6}$).



Quickly find more information in the Feature Database

See images and videos in the <u>Sword of Destiny</u> Library.





EXPERT INSIGHTS

Cascading multipliers on prize towers increase player excitement by highlighting the impact of the feature at key moments.

Insight Details

- Use cascading multipliers to draw attention to activity on a prize tower. The cascading multipliers emphasize the start of the free spins, additional multipliers, and wins (see <u>image 1</u> and <u>this video</u>).
- Increase the value of the multipliers as the free spins progress. This eliminates the potential of a poor experience by making each free spin progressively more exciting (see <u>image 2</u> and <u>Expanding Respins & Spawning Bonus Boards</u>).
- Dedicate the most visual real estate to the tower's jackpot values and multipliers. In Sword of Destiny, the sword is the largest object on the screen. Although important to the machine's fiction, the sword's presence should be reduced to place greater visual emphasis on objects that add value. Sword of Destiny was originally an <u>RPG machine</u> (see image 3).
- Make it clear when a multiplier is applied to a win to educate players on this complex mechanic.

Persona Information

• Fantasy themes appeal to players who enjoy action and adventure movies—the two highest-grossing movie genres of 2019, with 66.3% of gross revenue for the year (source). Mythic themes (medieval, mythology, and folklore) target Sensation Serenas and Daydreamer Denises. These player types want fantasy locations, intriguing characters, and strong animation-again, similar to action and adventure movies.



Go deeper online using the Feature Database

• Review the visual strength of Hercules Grand's expanding reels, ghosting symbols, and characters in a portrait-mode machine. Go to the <u>Hercules Grand</u> Library and easily find the full analysis from the report in the <u>Reel Expansion Mechanics</u> Wiki page.









WIKI > CONTENT > SOCIAL

CALENDAR COLLECTIONS & PROGRESSIONS 69 Fun in *Slotomania*



MECHANIC TEARDOWN

In Slotomania's 69 Fun, players spin to collect day-of-the-week icons. Collecting all seven icons triggers a wheel that advances players along a calendar. Players also earn machinespecific currency to buy enhancements.

Wheel Trigger

- Symbols with ladies are randomly tagged with day-of-the-week icons.
- Collecting all seven day-of-the-week icons triggers a wheel spin (1).
- Collecting the same icon adds to that day's count $(\underline{2})$.

Wheel Bonus

- The wheel contains each weekday and its associated hit count $(\underline{3})$.
- Players spin the wheel to determine their advancement on the calendar (4).
- The day's count is converted to a machine-specific currency.

Calendar Progression

• Landing on a Sunday or a date with a lady on it triggers free spins and awards a bonus equal to the average bet multiplied by the day's count (video).

Store Enhancements

- Players can spend machine-specific currency to add enhancements (<u>5</u>).
- To activate, players must spend the core-game currency (<u>6</u> and <u>video</u>).



Quickly find more images and videos

- Download images in the <u>69 Fun</u> Library.
- Watch the *Slotomania* SuperGroup walkthrough <u>here</u>.





EXPERT INSIGHTS

Design progress bars and collection mechanics that resemble real-world systems to make add-on engagement features more welcoming and subtle.

Insight Details

- Real-world systems help obscure the intent of the mechanic and make the machine more fun for players. In 69 Fun, players must collect icons to fill the entire week and progress along a calendar, two subtle and enjoyable real-world systems that increase spins per player (see <u>image 1</u>).
- Implement multiple progression systems to ensure that all player engagement is rewarded. When players spin in 69 Fun and hit an uncollected day-of-the-week icon, they advance towards a wheel spin. If they spin and hit an already collected day-of-the-week icon, they increase that day's count and its potential in-machine currency reward (see image 2).
- Add monetization gates to progression systems that require heavy engagement. In 69 Fun, players who use machinespecific currency to add unlimited bonus enhancements for a certain number of calendar weeks must spend gems, a secondary game-currency (see image 3).

Persona Information

• Challenge, collection, and quest mechanics help Daydreamer Denise escape her everyday pressures from the real-world by managing and completing controlled tasks in a virtual world. Her desire is to escape—not necessarily to relax—by keeping her mind busy with tasks and goals.



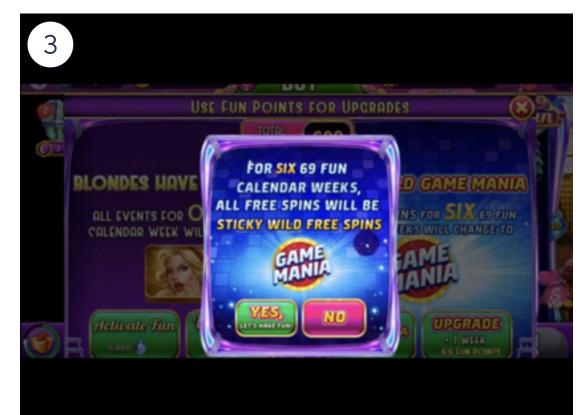
Reference all the reports

For more information on in-machine progressions, review the following Wiki pages:

- In-Machine Quests for a progression system through a map of five different islands.
- Multi-Challenge Progression Systems for a progression with choices to collect or continue and sell a business.









SLOTS TRENDS

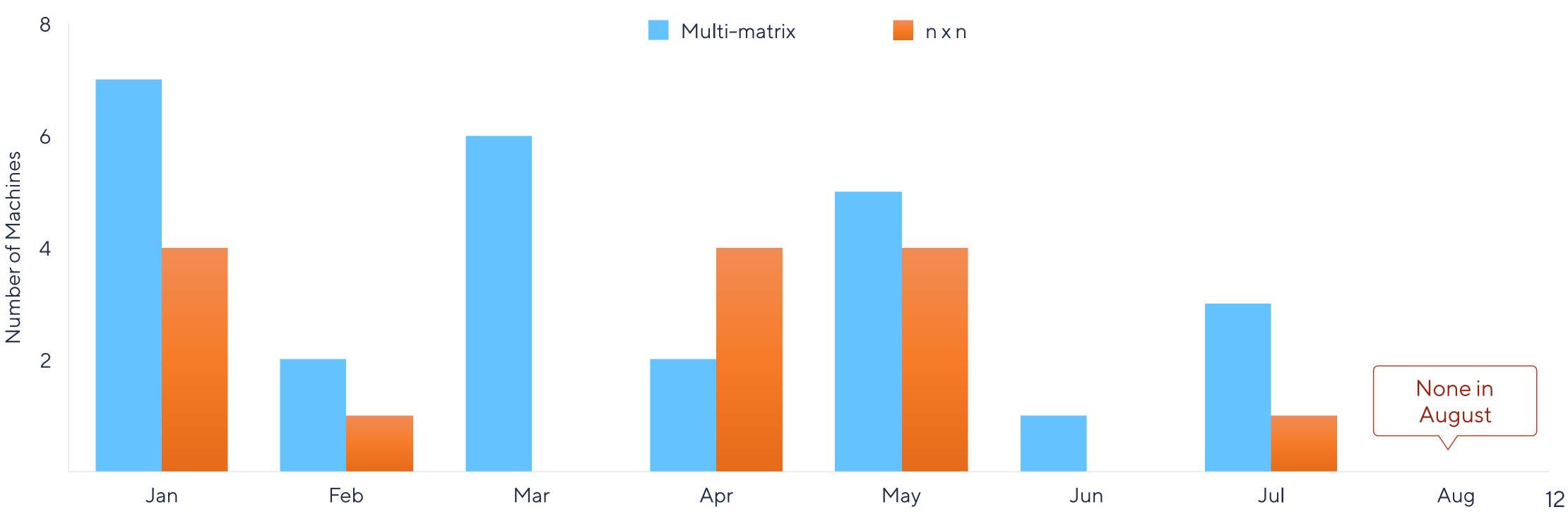
11

REEL SETS

Multi-matrix and *n* x *n* reel set configurations have declined since the start of 2019. Traditional reel set configurations of 3 x 5 and 4 x 5 are dominant. In the past three months, 83.5% of tracked apps have used these two configurations.

Details

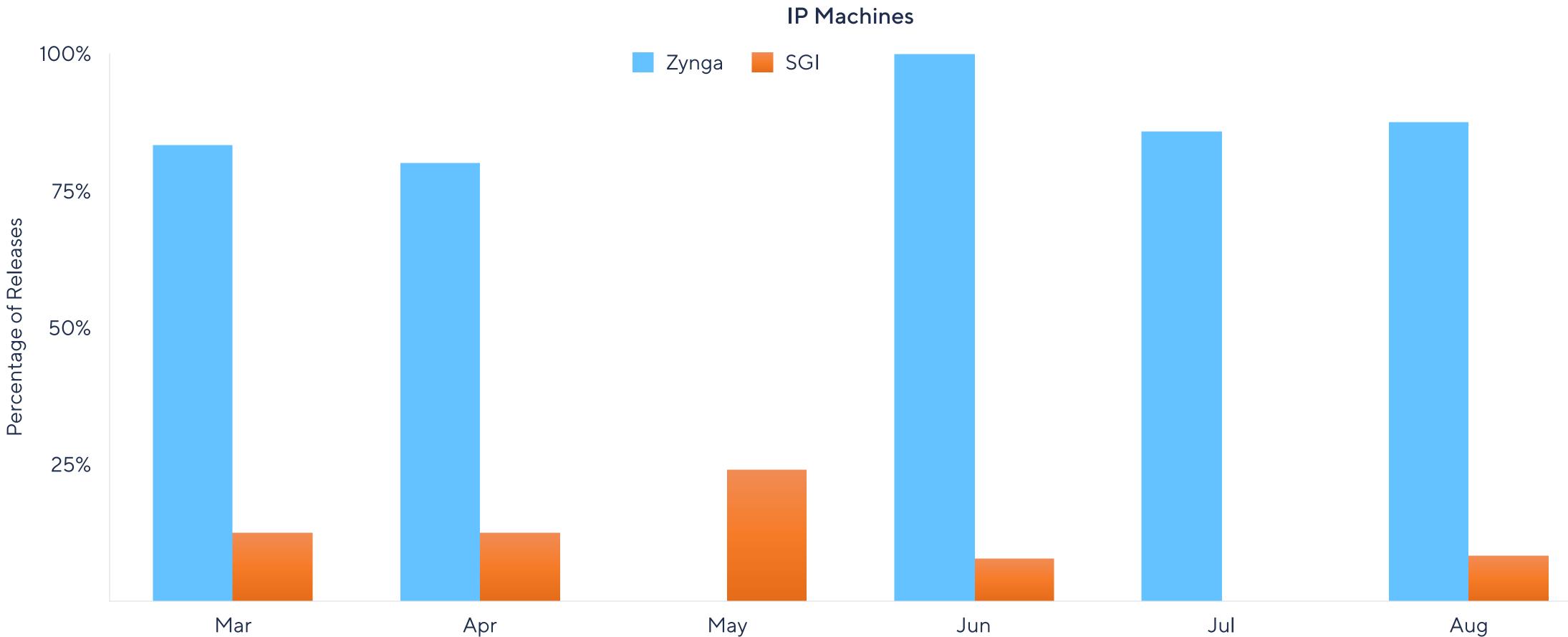
- 3 x 5 and 4 x 5 reel set configurations are up +16% QoQ as a percentage of total tracked machines released.
- Tracked apps are the top-grossing slots apps in Casino.
- In August, no machines with multi-matrix and n x n reel set configurations were released by tracked apps.







Zynga and Scientific Games released the majority of IP-themed machines, which account for 13% of tracked machines in the past six months. As a percentage of total machines released by publisher, 81% of Zynga's machines are IP machines compared to only 14% for Scientific Games.









NOTABLE RELEASES I

Арр	Machine	
Big Fish Casino	<u>Raging Reels</u>	 Players hit six or more coin symbols During the bonus, coin symbols free spins counter (video). Players land arrow symbols to ac Filling all five rows (three origina a jackpot.
Cashman Casino	<u>5 Dragons Gold</u>	 This update to 5 Dragons Gold r with an expanded center reel for
POP! Slots	<u>Aztec Mystery</u>	 During a social bonus, players hi win multiplier and progress thro The final temple ends in an indiv
Caesars Slots	<u>Lobby Loot</u>	 Players hit six or more popcorn s Hitting five popcorns triggers or During the respins, players fill rot

Description

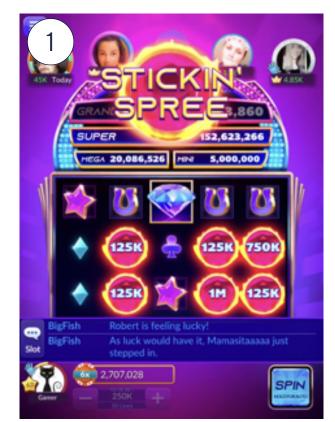
bols to trigger a respin bonus (1). stick in place, and each new coin resets the

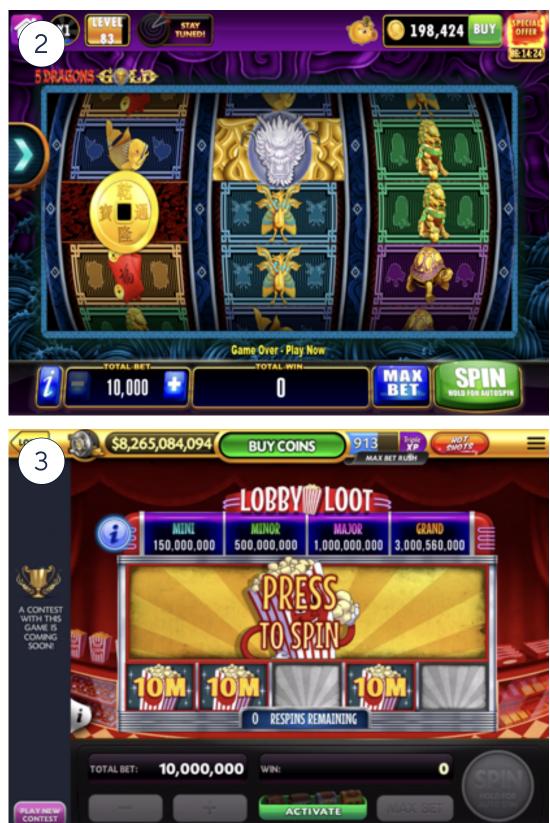
idd up to two additional rows to the reels. al and two additional) with coin symbols awards

machine changes the machine to a stepper or free spins (2).

nit individual multipliers to increase their group ough a series of temples (<u>video</u>). vidual pick'em bonus for up to three jackpots.

symbols to trigger five respins. one respin for a chance to land a sixth $(\underline{3})$. ows with popcorn to win a wheel spin.







NOTABLE RELEASES II

Арр	Machine	
	<u>Sumo in Love</u>	 Players hit two different sumo sy The sumo fight bonus adds up to At the end of the bonus, sumo so (video).
Caesars Slots	<u>Fu Xiang</u>	 Players land different color chest The color of the chest determin Players collect 12 keys to unlock
	<u>Cash Fever</u>	 Players collect machine-specific through chapters (<u>2</u>). Players can trigger a cash wheel addition to awarding prizes.
Cash Frenzy	<u>Mia's Beer Hall</u>	 Players collect beer maiden sym When full, the meter unlocks Players spin to determine a b Players guess the color of the multiplier if correct. Hitting multipliers moves player Players have three spins to h

Description

symbols to trigger a sumo fight bonus. to 15 wilds to the current spin.

symbols transform to the winner of the fight

est symbols for a chance to trigger a pick'em. hes the value of the bonus.

k a super chest bonus (<u>1</u> and <u>video</u>).

fic currency to purchase vaults and progress

el bonus that can start two more bonuses in

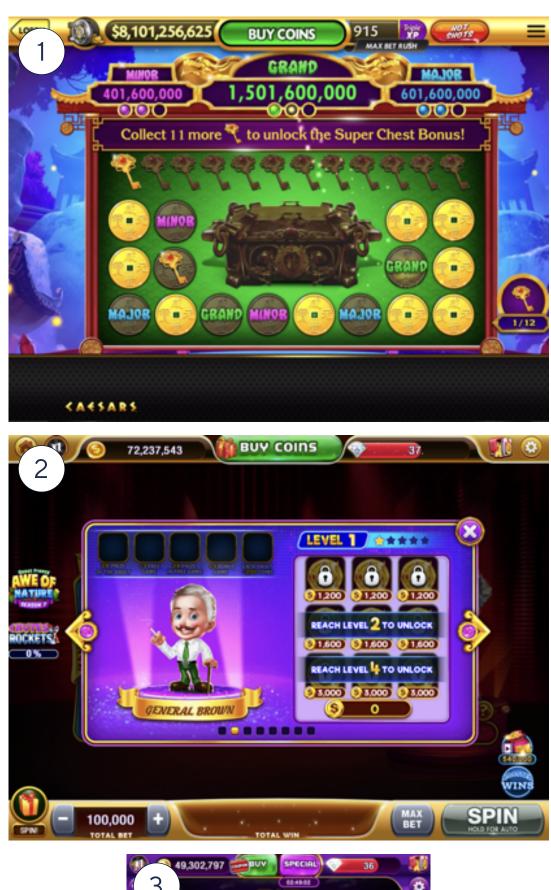
mbols to fill a meter.

ks a beer collection wheel spin.

bonus and add the winning beer to a board $(\underline{3})$.

ne final beer to complete the board, earning a

ers up a multiplier tower (<u>video</u>). hit another multiplier before the tower restarts.







NOTABLE RELEASES III

Арр	Machine	
DoubleU Casino	<u>Vegas Golden Chips</u>	 Players hit six or more chip symb Any additional chip symbols hit Gold chips add additional chip s
Lotsa Slots	<u>Never Lose</u>	 Players complete collection cha trigger a bonus wheel spin (<u>2</u> and Players can also hit three treasur bonus. During the bonus, players naviga collect bonuses. Hitting a multiplier, jackpot, or car
Gold Fish	<u>Double Blessings</u>	 Landing three or more bonus sy During the respin bonus, special reel for that spin (<u>3</u> and <u>video</u>).



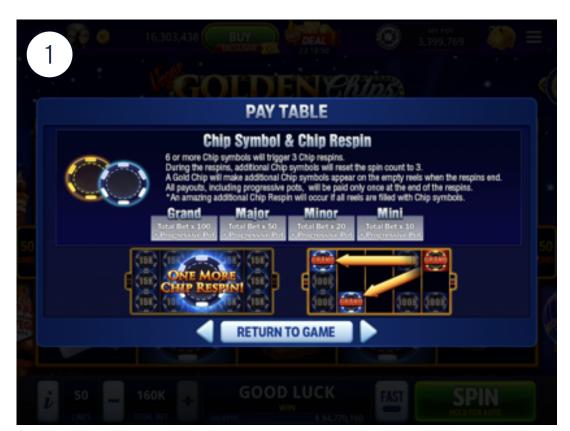
Quickly review all the machines released

• Use the Library Tool and filter by year and month to see all the releases.

Description

- hbols to trigger three respins.
- during respins restart the respin counter.
- symbols to the reels once the respins end (1).
- allenges within a specified number of turns to nd <u>video</u>).
- ure chest symbols to trigger a Treasure Island
- gate four characters around a treasure map to
- crocodile ends the bonus (video).
- ymbols triggers a respin bonus. al symbols add two additional rows to a single











APPENDIX



UTILIZE L&G'S TOOLS

capabilities. Matrix tool is now live!







- 2. Benchmark your app's output against competitors.
- 3. Export data into .csv to do more in-depth analysis.



- 1. Reference all Liquid and Grit's insights.
- 2. Find and download previous reports.
- 3. Uncover revenue-driving features from other genres.





SLACK REPORTS

- 2. Download images to use as design templates and spec references.
- 3. Check out level-locked machines and features.



- 2. Start a team conversation about new designs and innovations.
- 3. Quickly review any report's Executive Summary.



Uncover new puzzle trends and understand competitor investments with Liquid and Grit's tools and

1. Find new trends using the Data Tool's categorization.

1. Watch videos to understand animations and flows.



PREMIUM PARTNERSHIPS

Quadrant Strategies

Market Research

Quadrant Strategies website

Quadrant Strategies is a market research consultancy that uses research to help the world's most prominent technology, gaming, and entertainment companies develop strategies for building their user base, increasing user engagement and spend, and strengthening their marketing and brand plans.

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 longterm 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.



Player Personas

Kinrate Analytics website

Kinrate Analytics offers game developers, consultants, publishers, and cloud gaming operators the best cross-platform game recommendation engine for targeted marketing, as well as a novel profiling-as-a-service solution for intelligent market segmentation and social 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 reports with the most relevant and detailed gaming user personas, data, and statistics available.

Kinrate Analytics

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.





L&G SLOTS PERSONAS

1,299 participants from the U.K. and U.S. were surveyed about their mobile gaming use. The data produced five personas with distinct patterns of game choices, 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
Ioney 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.







"I am seeking. I am striving. I am in it with all my heart."

- Vincent van Gogh

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