

# **C** LIQUID&GRIT

## **CASUAL REPORT**

Competitive Research and Actionable Product Recommendations

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## JULY

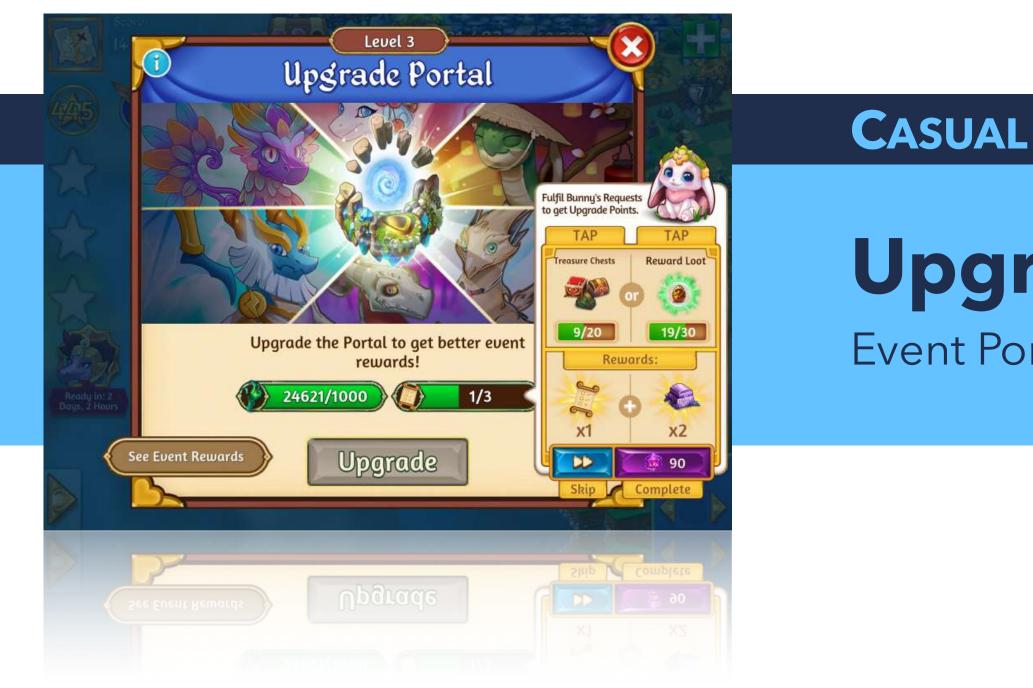
## 2022

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# IMPACT DRIVER

Features and events that boost revenue, retention, or downloads





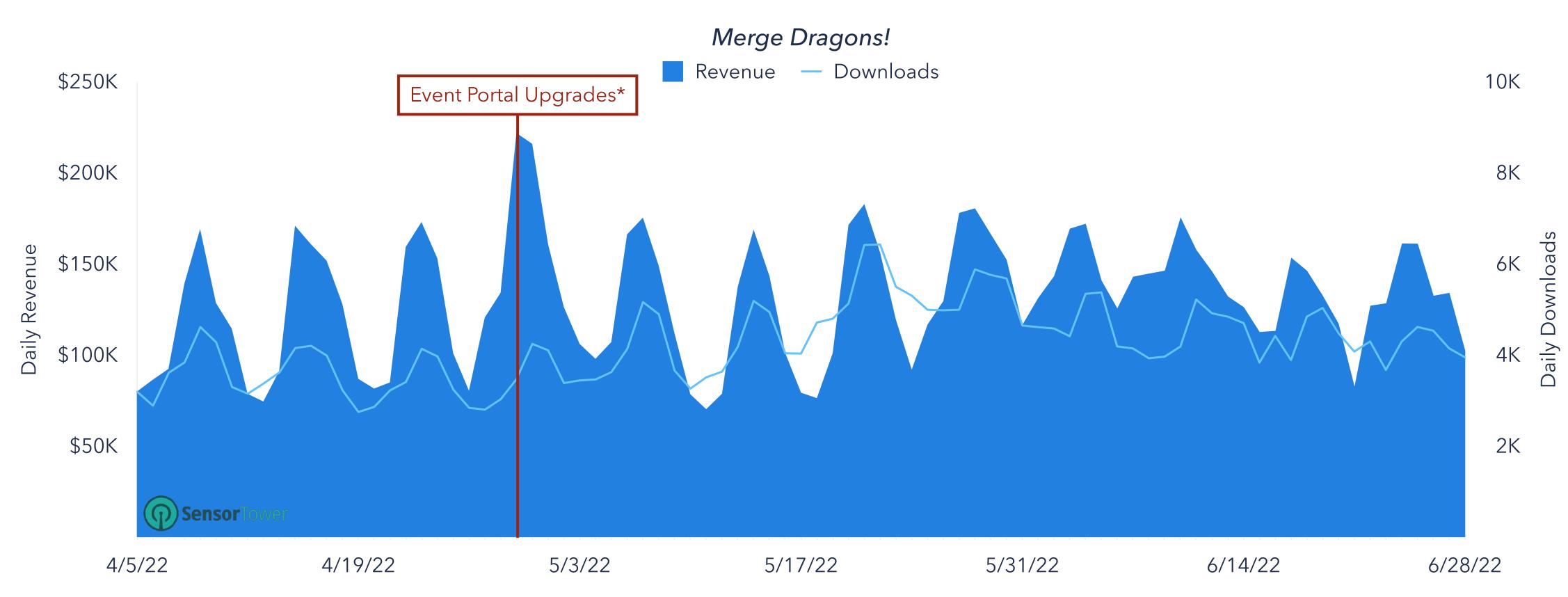
### **CASUAL > FEATURES > LEVELS**

## **Upgradeable Event Hubs**

Event Portal Upgrades in Merge Dragons!

### **REVENUE ANALYSIS**

Dragons! increased 8.7% MoM and 5.9% 2Mo2M. However, the feature has been in beta since 6/1/21, so its full revenue impact is difficult to assess.



Graph data is iOS, U.S. only.

XMoXM = X months over the preceding X months.

\*Liquid & Grit's account was given access to this feature on 4/29/22, but it has been in beta since 6/1/21.

# After our account was given access to the Event Portal Upgrades on 4/29/22, the revenue of Merge



## FEATURE TEARDOWN: EVENT PORTAL UPGRADES

### Players unlock a portal that grants access to weekly events. Completing missions upgrades the portal, which increases the rewards players earn from the events.

#### Details

- A portal on the map is initially locked.
- Advancing in the app's main progression awards points.
  - Players spend points to unlock the portal.
- Unlocking the portal grants access to events that run every weekend (1).
- The portal contains a series of missions (2).
  - Completing missions fills a meter.
  - Players can also spend premium currency to instantly complete a mission.
- Every 12 hours, players can exchange an uncompleted mission for a different one.
  - If players exchange a mission, they must wait for a timer to expire or spend premium currency to receive the new mission.
- Once the meter is complete, players can spend resources to upgrade the portal and earn rewards (3).
  - Upgrading the portal increases the rewards players earn from the portal's associated events (4).
  - The portal can be upgraded 16 times.

#### **Additional Information**

• See the **Event Portal Upgrades** gallery for more images and videos.





## **PRODUCT INSIGHTS**

#### Merge Dragons! is experimenting with level features that require extensive tuning.

Event Portal Upgrades has been in beta since June 2021, and <u>Season Portal Upgrades</u>, a similar feature, has been in beta since November 2021. Introducing 16 levels of upgrades that increase rewards for weekly events and monthly battle passes takes a huge amount of tuning that's specific to *Merge Dragons!*, making this a difficult feature for other apps to copy (<u>1</u>).

#### Level features are an opportunity for casual apps.

Despite being reliable revenue drivers, level features are still uncommon in the casual market (see <u>page 9</u>). Level features appear about four times as frequently in casino apps, where they also have strong revenue impacts. For a very successful example in casino, see *Caesars Slots*' <u>Prize Pet</u> (20% revenue MoM), in which players level up customizable pets to earn boosts and rewards (<u>2</u>).

#### Upgradeable hubs are an alternative to battle passes that use less overt monetization.

Players will likely need to buy items to complete Event Portal Upgrades' more difficult missions (and can also pay to complete missions outright). These missions are a subtler way to drive spend than simply selling players a premium battle pass.

Apps can also offer upgradeable hubs and battle passes at the same time. *Merge Dragons!* includes both types of systems in its Season Portal Upgrades by having players complete missions to increase rewards for a battle pass.

#### This feature drives engagement by getting players to invest in events ahead of time.

Players who invest in leveling up their portals will want to participate in the weekly events in order to collect the bigger rewards they've earned. This is especially true at higher portal levels, which require players to invest more time and resources for each upgrade.







## **RELEASE TRENDS**

Revenue impacts and trends for features and events



## **CASUAL FEATURE IMPACTS**

median revenue impacts.

Feature Type	Average Revenue MoM	Median Revenue MoM	Standard Deviation	Release Count
Accelerators	7.7%	5.1%	12.6%	17
Levels	5.2%	3.1%	11.3%	14
Collections	4.8%	1.9%	15.8%	88
Competitions	4.7%	-0.3%	17.5%	19
Missions	3.8%	2.2%	14.9%	235
Notices	3.7%	-2.3%	21.4%	34
Challenges	3.4%	1.5%	14.6%	80
Mini-Games	3.1%	2.4%	13.3%	20
Bonuses	3.0%	-4.2%	25.0%	35
Exchanges	2.9%	0.3%	15.3%	30
Clubs	2.3%	0.4%	11.3%	15
Interactions	0.4%	-0.2%	14.3%	18
Rewards	0.2%	0.8%	12.6%	24
Flows	-1.8%	-1.3%	12.3%	100
Expansions	-2.4%	-1.5%	15.4%	25

Data includes feature types with 14 or more releases by tracked casual apps between 5/15/20-5/15/22. Data excludes outlier releases with revenue impacts that exceed -40%/80% MoM.

MoM = Month over the preceding month.

App revenue data provided by Sensor Tower.

### Level features are one of the most effective and least frequently released feature types in the casual market. Although the sample size for level features is small, they have the second highest average and



## Level Features by Subgenre

### The merge subgenre has released a relatively high number of level features in the past two years.

Genre	Subgenre	Number of Level Feature Releases
Tabletop	Board	5
Puzzle	Merge	3
Puzzle	Puzzle and Decorate	3
Puzzle	Action Puzzle	1
Puzzle	Bubble Shooter	1
Puzzle	Other Match-3	1

Data includes level features released by tracked casual apps between 5/15/20-5/15/22.



# MARKET WATCH

New apps and notable releases from established competitors

## **SOFT-LAUNCH APP**

Worldscapes innovates on the tile blast subgenre by having players place tiles directly on the board rather than using traditional swapping or matching mechanics. It combines this mechanic with a lite custom design system inspired by Royal Match. This focus on core gameplay is well suited to PeopleFun's talent for compelling puzzle design (seen in Wordscapes and Bricks n Balls) and the current state of the market.

#### Worldscapes by PeopleFun, Inc.

#### App Details

- During levels, players place blocks and boosts on a board (<u>1</u> and <u>video</u>).
- Creating a full row or column of blocks clears those blocks.
  - Rows or columns can be created with any color or type of block.
  - Clearing blocks that contain boosts triggers those boosts.
  - Clearing two or more rows or columns in a single move awards a boost (2).
- Level goals include clearing certain numbers of blocks, types of block, or obstacles.
- Completing levels awards points.
- Players spend points to upgrade travel locations  $(\underline{3})$ .
  - Players can't customize the upgrades.
  - Fully upgrading a location awards prizes and unlocks the next location.
- Other features include daily retention rewards, IAPs, and leaderboards.

#### Launch Information

- Soft-launched on 3/30/22 in Australia and the Philippines
- Average daily revenue since soft-launch: \$25
- Average daily downloads since soft-launch: 34
- View Worldscapes on the <u>App Store</u>





### **BREAKOUT APP**

Cube Master 3D is the latest escalation in the trend of 3D matching apps with novel level layouts, similar to Match Ball 3D (which we covered in our May Casual Report). This subgenre is seeing a small boom, so we expect to see more-and more elaborate-formats for some time.

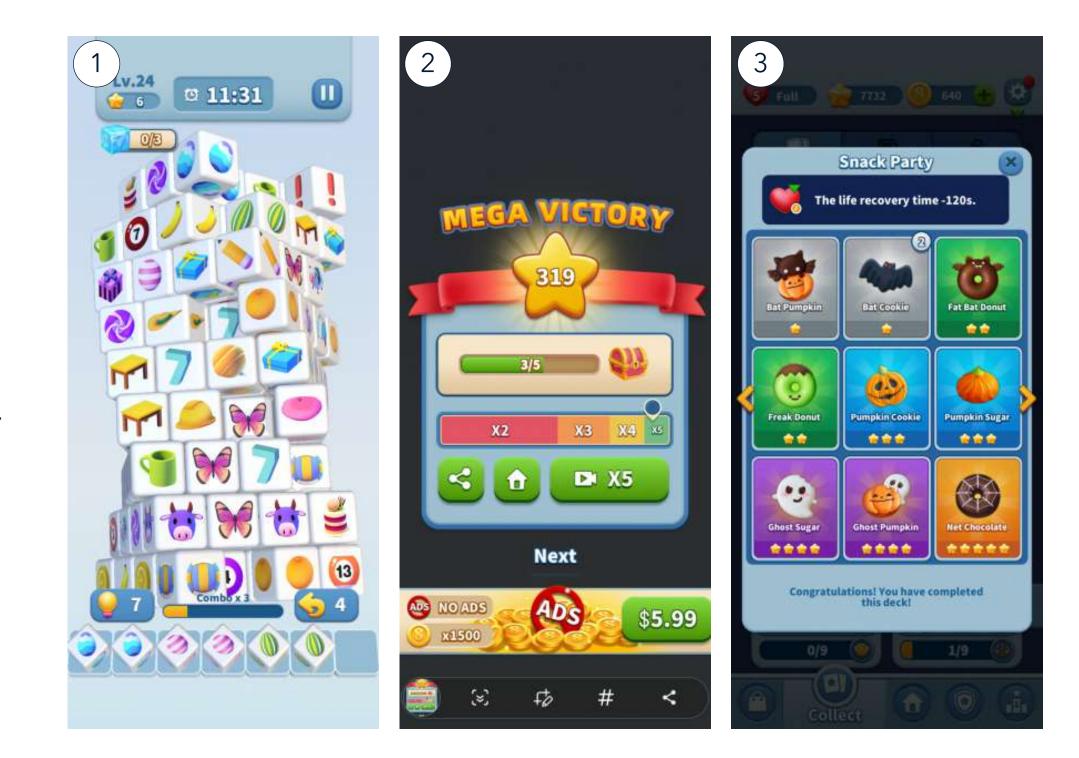
#### **Cube Master 3D** by HIGGS TECHNOLOGY CO., LIMITED

#### **App Details**

- Players rotate a 3D object composed of cubes (<u>1</u>).
- Tapping three cubes of the same type clears them.
- Players earn stars for clearing cubes.
  - Quickly clearing cubes fills a combo meter that multiplies stars.
  - Stars fill a meter that awards a chest when complete.
- Clearing all the cubes within a limited amount of time and moves completes the level.
  - Completing levels awards currency and fills a meter that awards a chest when complete.
  - After completing a level, players can watch an ad to multiply their rewards ( $\frac{2}{2}$ ).
- Players spend currency and open chests to earn cards.
  - Completing a set of cards awards a permanent boost  $(\underline{3})$ .

#### Launch Information

- Released worldwide on 8/1/21
- 35<sup>th</sup> top-grossing casual app as of 6/1/22
- Average daily U.S. revenue (past 90 days): \$17,159
- Average daily U.S. downloads (past 90 days): 6,462
- View Cube Master 3D on the App Store







## FEATURE AND EVENT RELEASES I

Арр	Release	
Candy Crush Saga	<u>Vault Challenge</u> competition event	<ul> <li>Players complete levels to reach a se</li> <li>Reaching a vault enters players in a c</li> <li>Subsequent vaults unlock higher l</li> <li>In the competition, players try to col</li> </ul>
<b>EverMerge</b>	Submarine Challenge mission event	<ul> <li>Players harvest resources, open chest</li> <li>Fuel can be merged to create different</li> <li>Players use fuel to send submarines</li> <li>Each submarine has its own fuel rest</li> <li>Players can spend currency to upg</li> <li>When submarines' timers expire, plate</li> <li>Players can merge treasures to upgrt</li> <li>Completely upgrading treasures of</li> <li>Harvesting resources, opening chest</li> <li>Points fill a battle pass that grants</li> <li>A premium pass adds a second tie</li> </ul>
Lily's Garden	<u>Bonus Level</u> <u>Offer</u> purchase event	<ul> <li>Players claim a series of paid offers a</li> <li>Claiming a reward unlocks the next of</li> <li>The first and third rewards are paid of</li> <li>The second reward is a free puzzle log</li> <li>The fourth reward is a free bundle the</li> </ul>

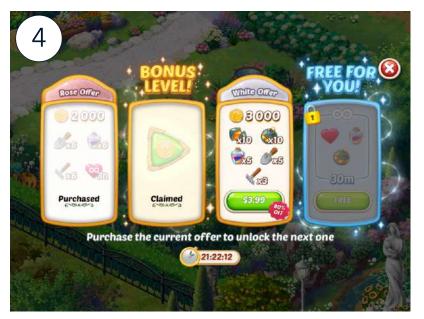
#### Description

- series of three vaults on the world map (<u>1</u> and <u>video</u>). competition.
- leagues.
- ollect the most blue pieces during levels.
- ests, and buy IAPs to earn submarine fuel (<u>2</u> and <u>video</u>). ferent types of fuel.
- on timed missions (3).
- requirement, timer length, and rewards.
- grade one submarine, which eliminates its timer.
- layers earn treasures.
- rade them.
- creates an item that grants rewards every day for one week.
- sts, and merging items also awards points.
- rewards at milestones.
- ier of milestone rewards.
- and free rewards (<u>4</u> and <u>video</u>).
- one in the series.
- offers.
- level in which players collect as much currency as they can. hat grants unlimited boosts for 30 minutes.













## FEATURE AND EVENT RELEASES II

Арр	Release	
Lily's Garden	<u>Home Design</u> custom design event	<ul> <li>Players complete events to earn tick</li> <li>Players spend tickets to buy custom</li> <li>Buying decorations fills a meter that</li> </ul>
	<u>Zen Decorations</u> purchase event	<ul> <li>An IAP offers a bundle of boosts and</li> </ul>
Match 3D	<u>Daily Challenge</u> challenge feature	<ul> <li>Players spend currency to attempt d</li> <li>Players can select challenges from</li> <li>Each challenge revolves around a</li> <li>Completing challenges fills a meter resets each month.</li> </ul>

Quickly review all features and events

Filter the <u>Database Tool</u> by month and year to see all new releases.

#### Description

#### kets (<u>video</u>).

- decorations for a room (1).
- at grants rewards when full (2).
- nd Asian-themed decorations  $(\underline{3})$ .
- daily challenges (<u>video</u>).
- m the current day or any previous day.
- specific category or color of items.
- that awards trophies at milestones (4).



















## **CONTENT RELEASES**

Арр	Release	
Traffic Puzzle	<u>Fountain</u> hazard	<ul> <li>Fountains block players' cars.</li> <li>Making matches next to a fountain fit</li> <li>Completely filling the fountain clear</li> </ul>
	<u>Hot Air Balloon</u> hazard	<ul> <li>Hot air balloons block players' cars.</li> <li>Making matches next to a hot air ba</li> <li>Completely inflating the balloon cle</li> </ul>
Words With Friends 2	<u>Free Word Clue</u> accelerator	<ul> <li>At the start of matches, players can v</li> <li>Clues suggest places that players</li> </ul>

#### Description

fills it with water (<u>1</u> and <u>video</u>). ars it.

alloon inflates it (<u>2</u> and <u>video</u>). ears it.

watch an ad to earn a clue ( $\frac{3}{2}$ ). s can make words with their letters.







## APPENDIX



## TRACKED CASUAL APPS

#### Tracked Puzzle Apps

Angry Birds 2, Angry Birds Dream Blast, Angry Birds Friends, Best Fiends, Bubble Pop Origin!, Bubble Shooter - Pop Bubbles, Bubble Witch 3 Saga, Bubbles Empire Champions, Candy Crush Saga, Candy Crush Soda Saga, Clockmaker, Elevate, Evermerge, Farm Heroes Saga, Fishdom, Gardenscapes, Gummy Drop!, Harry Potter: Puzzles & Spells, Hidden City, Homescapes, Jeopardy! Trivia Quiz Game, June's Journey, Lily's Garden, Match 3D, Merge Dragons!, Merge Magic!, Panda Pop!, Project Makeover, Royal Match, Seekers Notes: Hidden Mystery, Toon Blast, Toy Blast, Traffic Puzzle, Trivia Crack, Trivia Star, Two Dots, Wheel of Fortune: Show Puzzles, Who Wants to Be a Millionaire?, Word Collect, Word Crush, Wordscapes, Words With Friends 2, and World of Peppa Pig

#### **Tracked Simulation Apps**

Animal Crossing: Pocket Camp, Cooking Diary, Cooking Fever, Cooking Madness-Kitchen Frenzy, Diner DASH Adventures, Disney Magic Kingdoms, Dragon City Mobile, Family Island, Grand Hotel Mania, Harry Potter: Hogwarts Mystery, Hay Day, Klondike Adventures, Monster Legends, My Singing Monsters, Roblox, The Grand Mafia, The Sims FreePlay, and Township

#### Tracked Lifestyle Apps

Chapters: Interactive Stories, Choices: Stories You Play, Covet Fashion, Design Home, Episode - Choose Your Story, Kim Kardashian: Hollywood, Obey Me!, Redecor, and Time Princess

#### **Tracked Tabletop Apps**

Board Kings, Mahjong Jigsaw Puzzle Game, Phase 10: World Tour, Solitaire Cruise Tripeaks, Solitaire Grand Harvest, Solitaire TriPeaks, Spades Plus - Card Game, UNO!, Yahtzee with Buddies Dice, and Yalla Ludo



## **PREMIUM PARTNERSHIPS**

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- Evaluate app economies and app vitality.
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- Discover top creatives and better shape user acquisition strategy.

For more information, visit <u>Sensor Tower's website</u>.





## **CASUAL MECHANICS TAXONOMY**

Mechanic	Definition	Mechanic	Definition
<u>Accelerators</u>	Increases in the power, impact, or efficiency of play	<u>Hazards</u>	Level elements/blockers that increase difficulty
<u>Banks</u>	Features that save a percentage of spend to be unlocked later	<u>Interactions</u>	Social features with direct or indirect interaction
<u>Bonuses</u>	Free bonuses given to players (e.g., retention or W2E)	<u>Leaderboards</u>	Stand-alone leaderboards
<u>Challenges</u>	Goal-oriented tasks for players to complete	<u>Levels</u>	Anything to do with leveling
<u>Clubs</u>	Groups that accomplish goals or compete with other groups	<u>Mini-Games</u>	Smaller, shorter games within games (e.g., scratch cards)
<u>Collections</u>	Sets of items that players collect (often for a completion prize)	<u>Missions</u>	Linear sets of tasks that players must accomplish
<u>Competitions</u>	Features where players compete against other players	<u>Notices</u>	Feature or product announcements
<u>Cosmetics</u>	Improvements or updates to the app or features	<u>Other</u>	Miscellaneous features and outliers
<u>Currencies</u>	Changes to currencies, economies, stores, and items	<u>Profiles</u>	Features related to a player's settings, profile, and controls
<u>Custom Design</u>	Options for cosmetic customization	<u>Purchases</u>	Anything to do with purchases
<u>Expansions</u>	Additional rooms, worlds, play modes, VIP lounges, etc.	<u>Quests</u>	Tasks that advance players along a map-like feature
<u>Flows</u>	Specific flows, like the NUX, ratings, and surveys	<u>Rewards</u>	Rewards players receive for engagement or spend



## *"If I'm interested in what I'm doing, other people will be interested in it."* – John Cale

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