SAN FRANCISCO 2017 | #GDC17





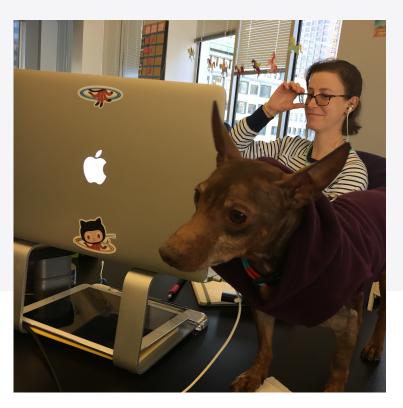


Lifetime Value

The long tail of mid-core mobile games







Tamara Levy

Director of Mobile Product

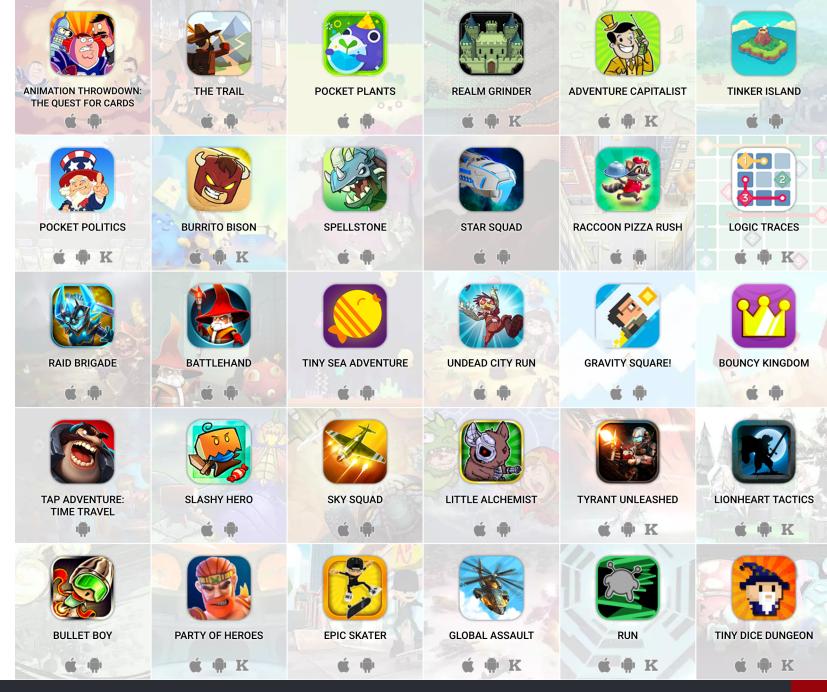


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Web Platform 100,000+ Uploaded Games

Mobile Publisher

30+ Games 100M+ Downloads



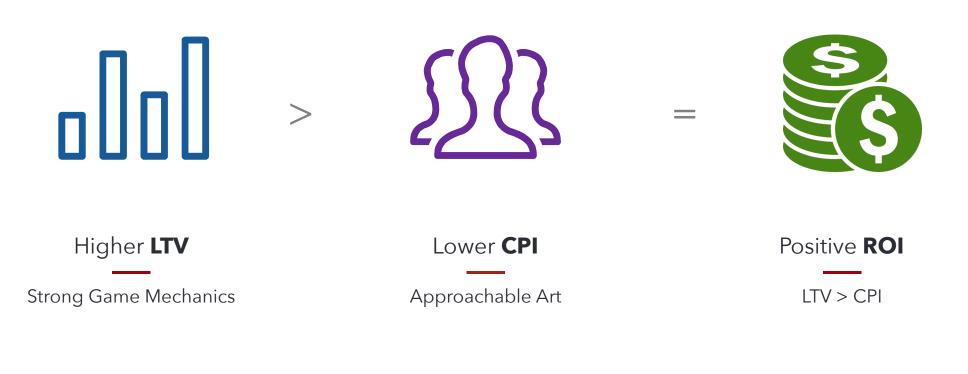
Games that grow

The two ends of the **funnel**

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Build Games That Can Grow

Goal: ROI Positive



UA Costs by Theme and Genre

CPI widely vary based on the game's theme theme, art style and genre



Casual: Low CPIs

Mid-Core: Medium CPIs

Core: High CPIs

UA Costs by Theme and Genre

CPI widely vary based on the game's theme theme, art style and genre





Mid-Core: Medium CPIs



Casual: Low CPIs



Known IPs: Low CPIs



Fantasy: Medium CPIs



Sci-Fi: High CPIs

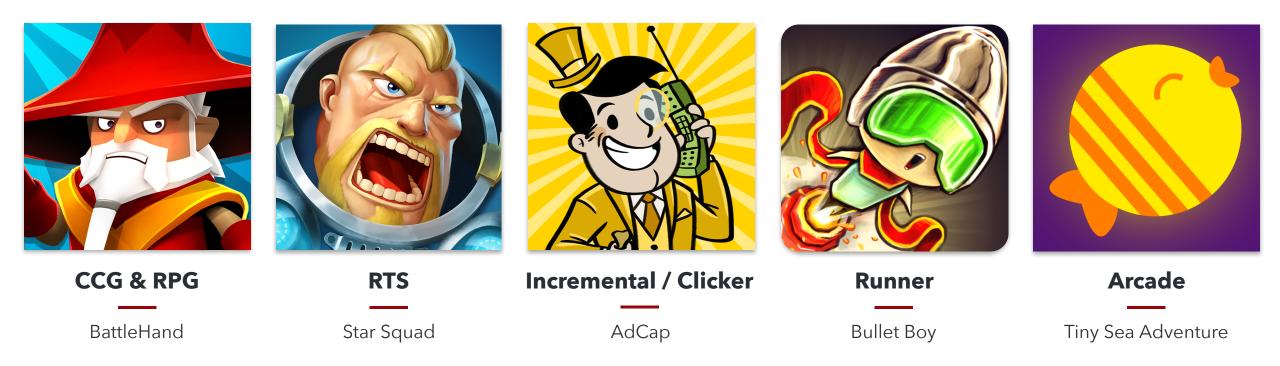
Core: High CPIs

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Core design decisions drive core KPIs

(There are always exceptions)





genre	# of games	d1	d7	d30	aprdau	ltv (180 days)
CCG & RPG	7+	35%	10%	3%	\$0.30 - \$1.00	\$1.5 - \$5.0
RTS	4	40%	20%	10%	\$0.10 - \$0.20	\$1.3 - \$3.5
Idle / Incremental	5+	45%	25%	15%	\$0.08	\$1.5
Runner	5	35%	8%	1%	\$0.03	\$0.10
Arcade	5	20%	5%	1%	< \$0.01	\$0.02



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Funnel Optimization

Every step matters

SR Impressions
Installs
Return Rate
Early Retention
Elder Engagement
(\$) LTV

Funnel Optimization

Every step matters

E Impressions
Installs
Return Rate
Early Retention
Elder Engagement
\$ LTV



Looking beyond early KPIs

After all, LTV is **lifetime** value

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Player Retention



Time in Game

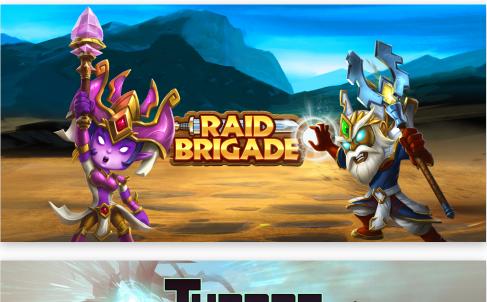
retention



Early Retention

<u>Comparison</u>: Raid Brigade has much stronger d1-d7 retention

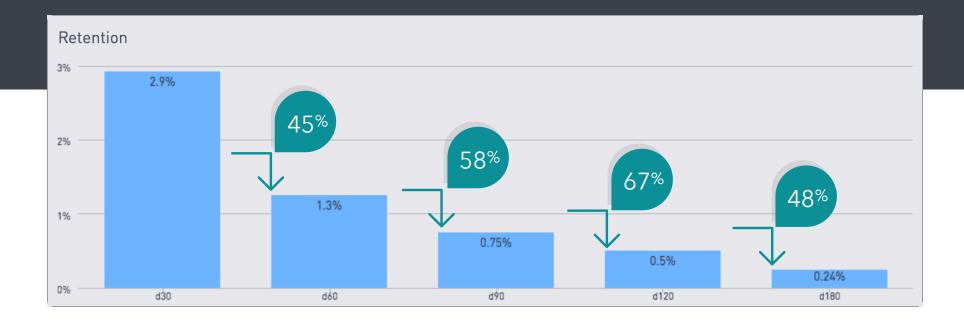
	Raid Brigade	Tyrant Unleashed
genre	ARPG	CCG
d1	36%	22%
d7	13%	7%
d30	3%	3%





Elder Retention

Looking beyond d30



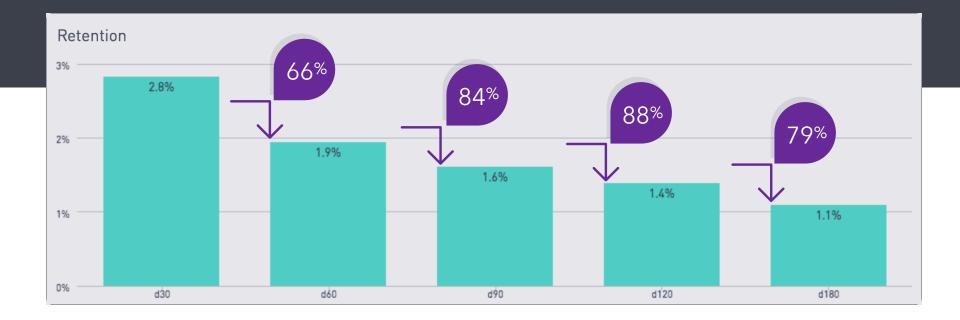
Raid Brigade

Halves every 30 day period

8% retained from d30 to d180

Elder Retention

Looking beyond d30



Tyrant Unleashed

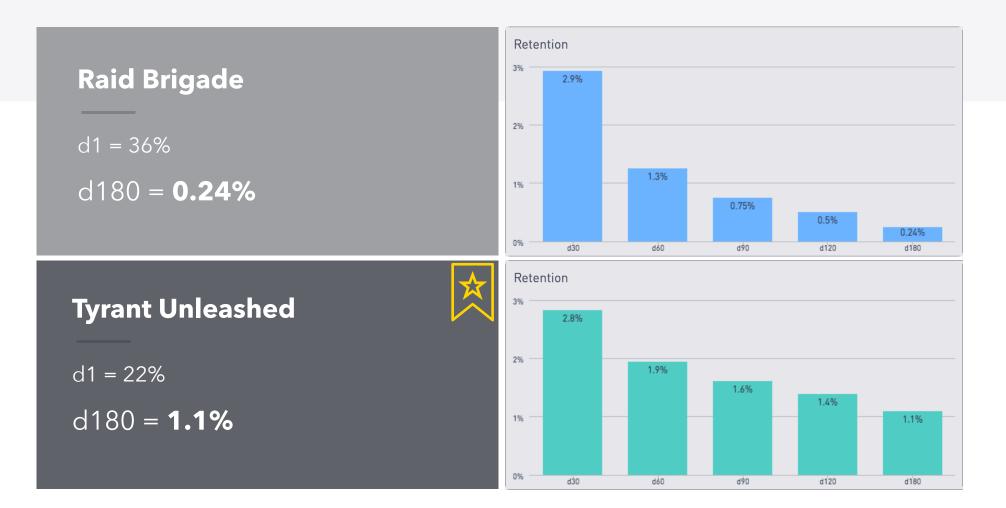
Similar starting point (d30)

Players who retain after d30, stay for a long time

40% retained from d30 to d180

Looking Beyond

d1 - d30 doesn't tell the whole story



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C Look beyond d30



Lifetime Spend



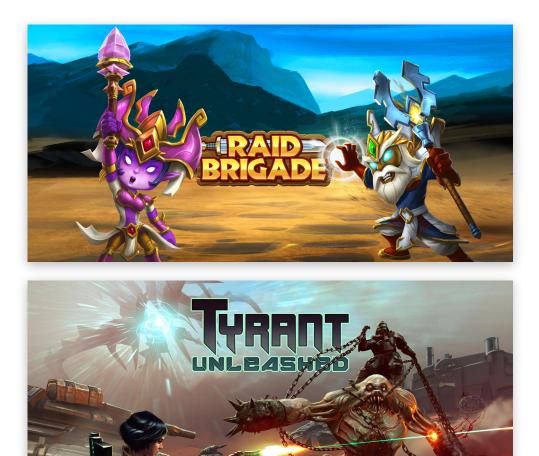
Desire to Spend

arpdau

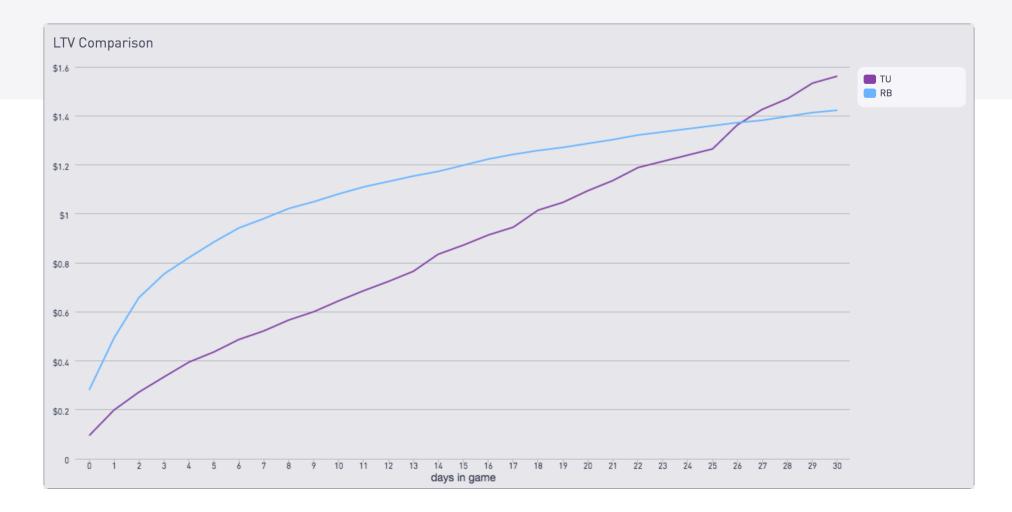


Lifetime Spend

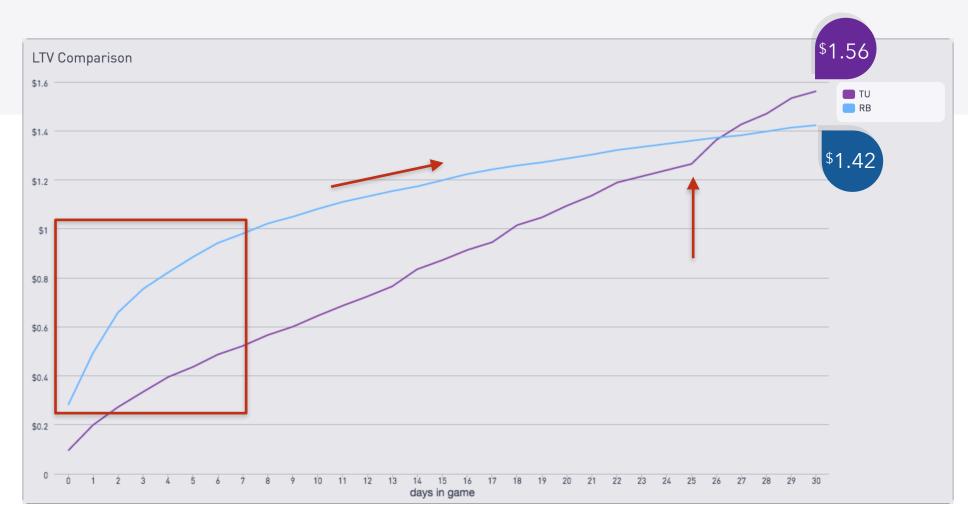
	Raid Brigade	Tyrant Unleashed
genre	ARPG	CCG
d1	36%	22%
d7	13%	7%
d30	3%	3%
arpdau	\$0.40	\$0.63
ltv (180d)	\$1.9	\$4.7



Comparing d30 LTV Tyrant 10% higher due to stronger ARPDAU

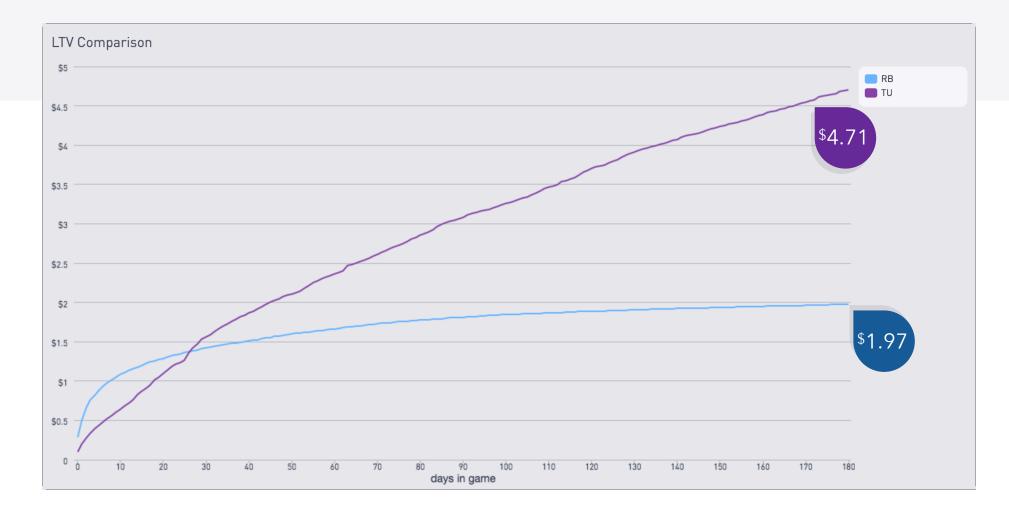


Comparing d30 LTV Tyrant 10% higher due to stronger ARPDAU

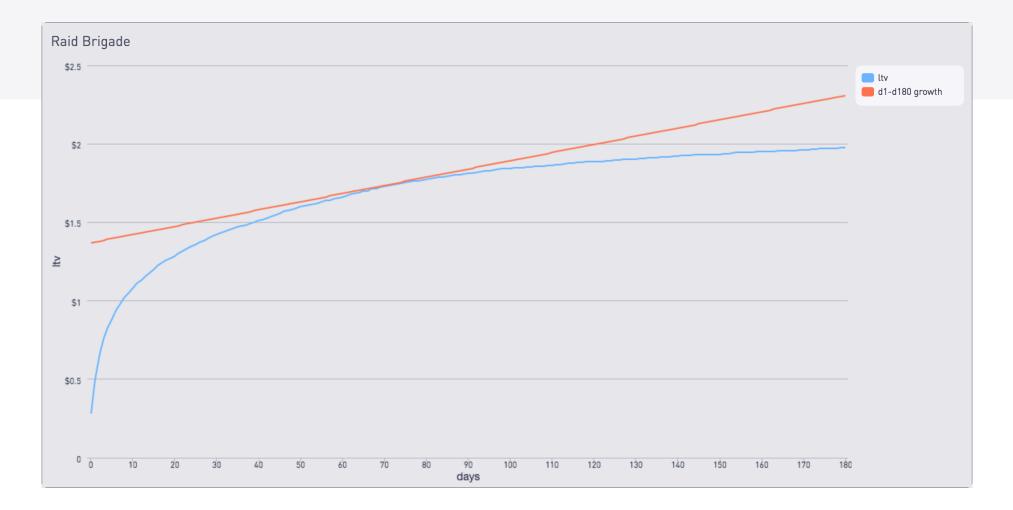


Comparing d180 LTV

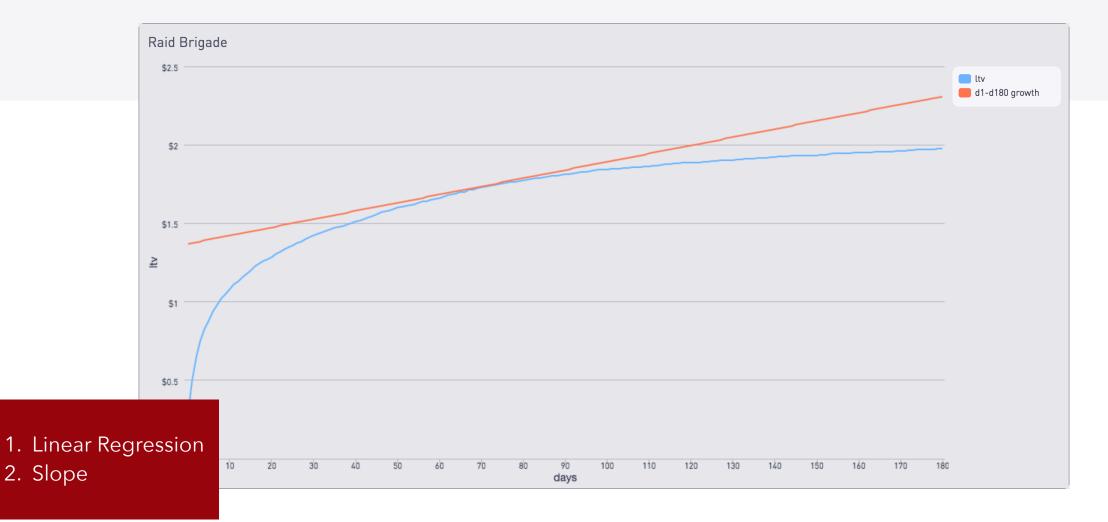
Tyrant LTV grows faster



Slope => How fast does LTV grow?

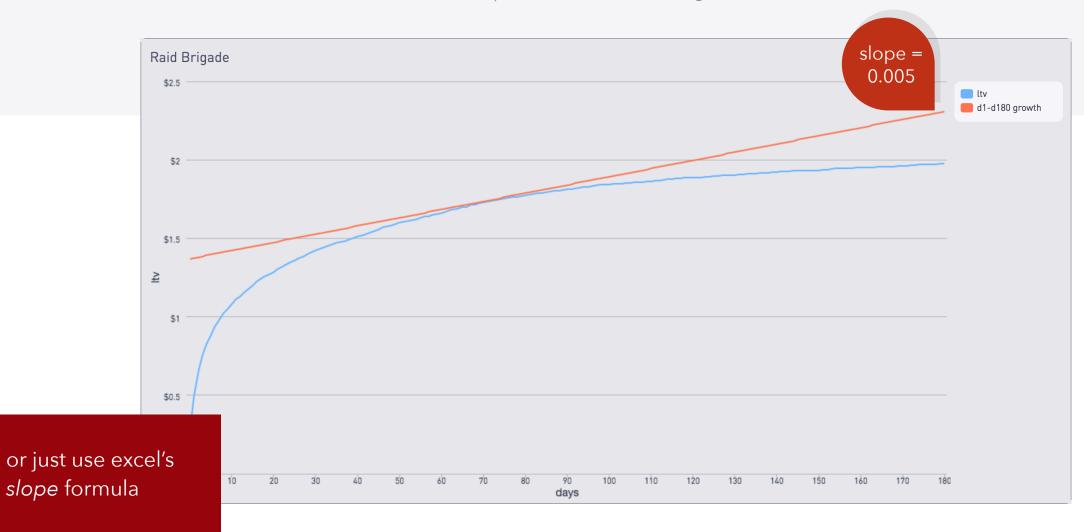


Slope => How fast does LTV grow?

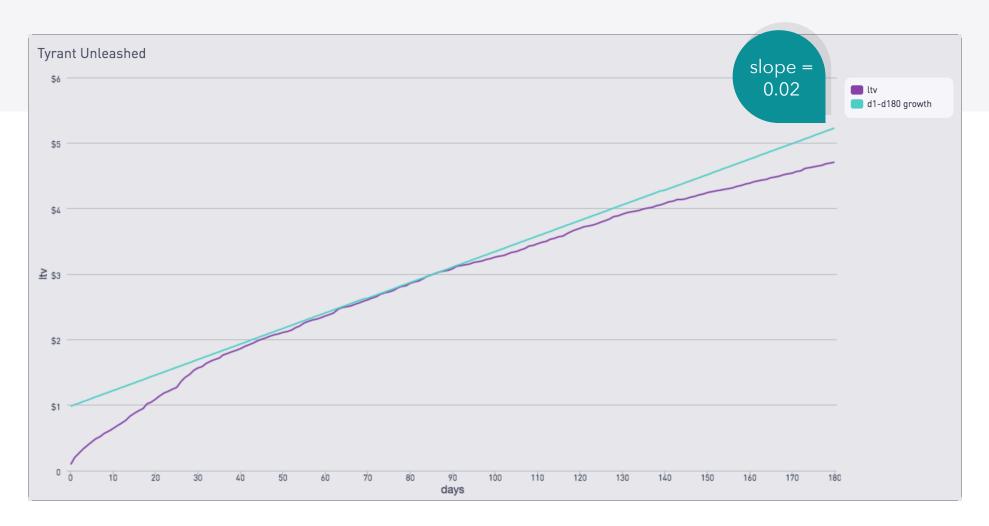


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Slope => How fast does LTV grow?

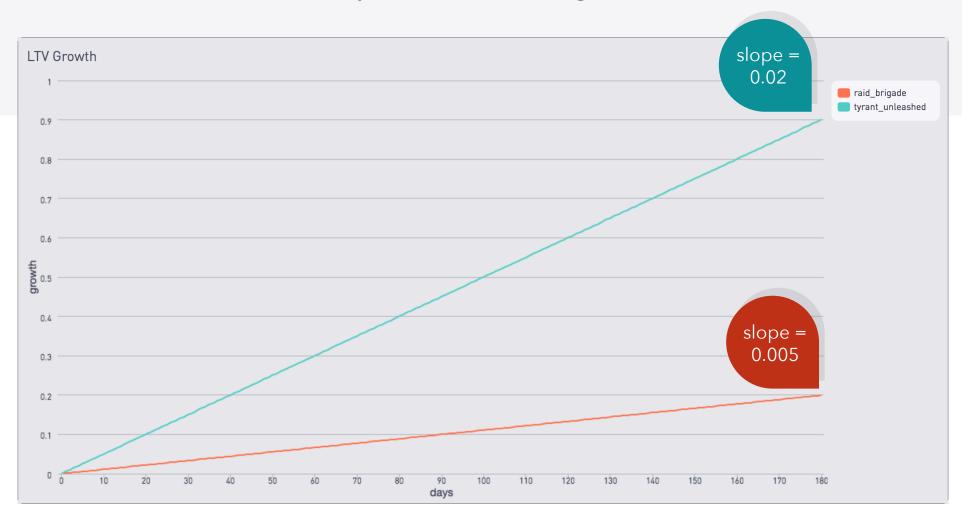


The longer players stay => the larger their investment



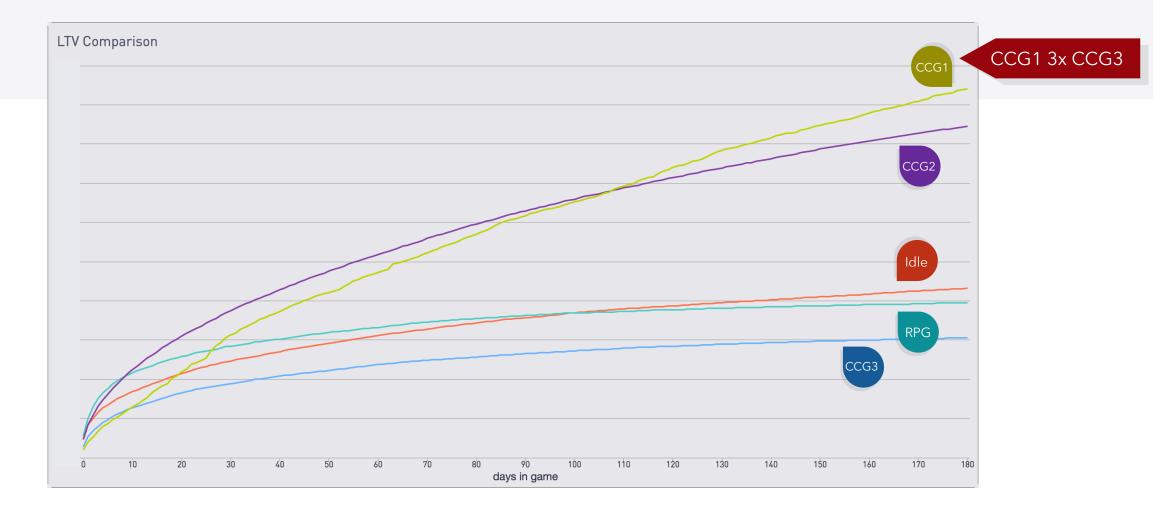
Comparing Growth

Tyrant Unleashed vs. Raid Brigade



Comparing d180 LTV

Different games, different growth patterns







Lifetime Value **\$**) = *

Time in Game

retention

Desire to Spend

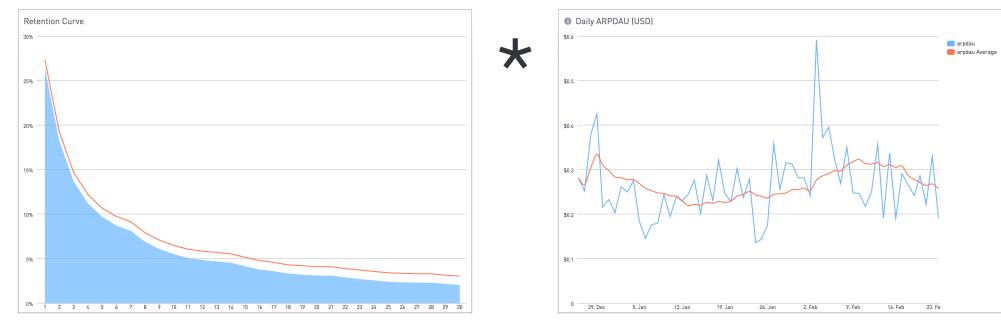
arpdau

Player Value

ltv



Projecting LTVs Simple LTV calculation



Player Lifetime

Area under the retention curve

Player Value by Day

ARPDAU

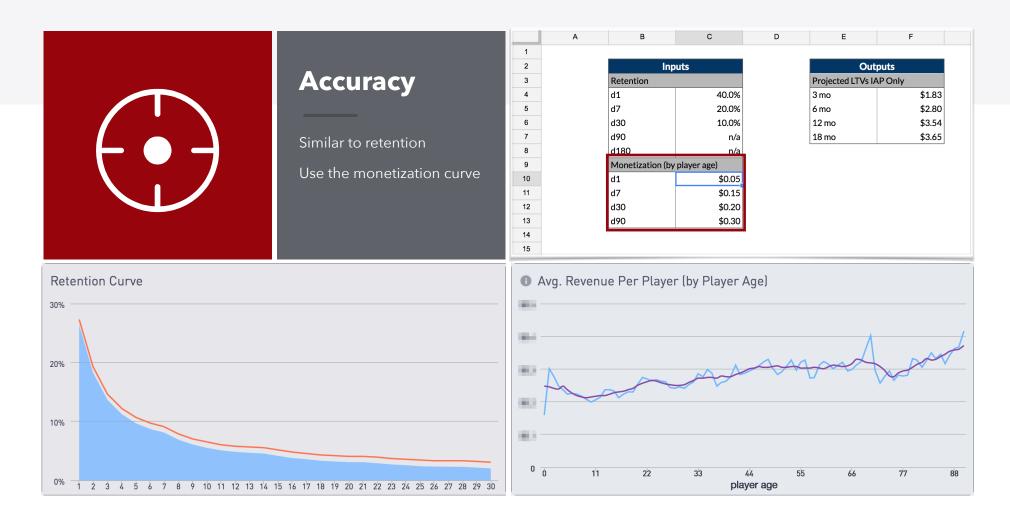
Projecting LTVs

Use retention and monetization curves

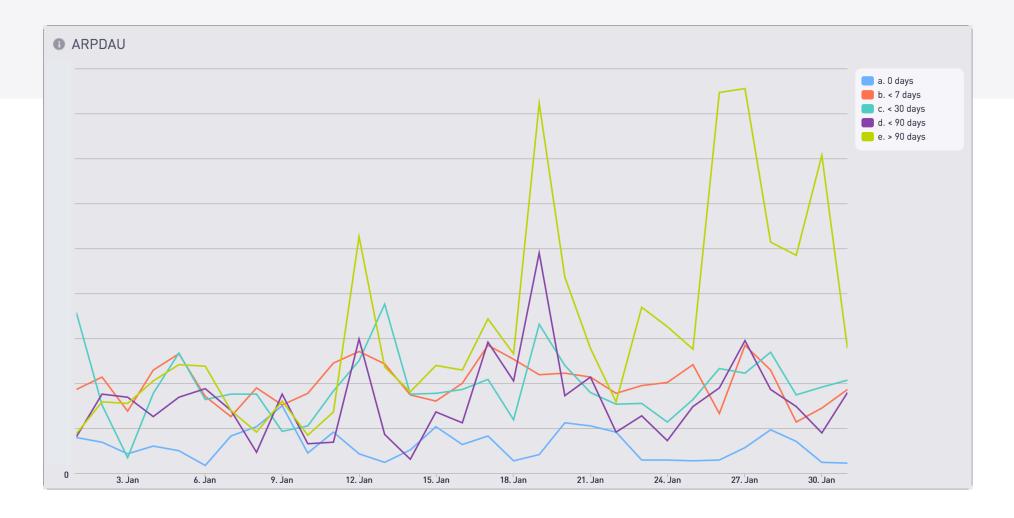
Accuracy

Similar to retention Use the monetization curve

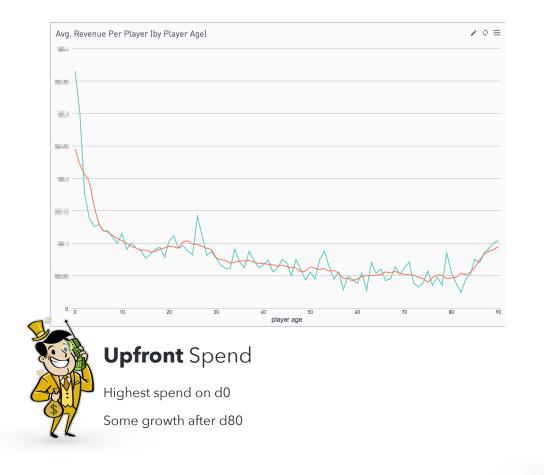
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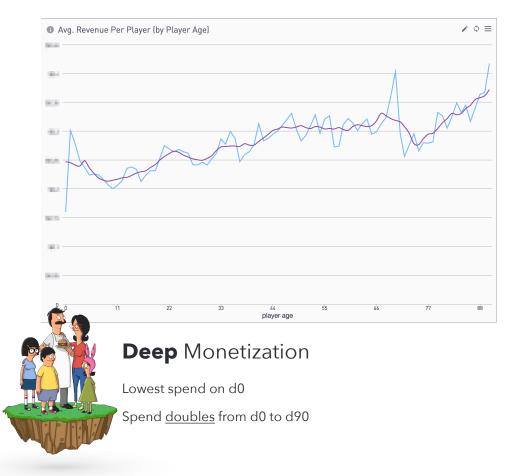


Daily revenue comes from players of all ages



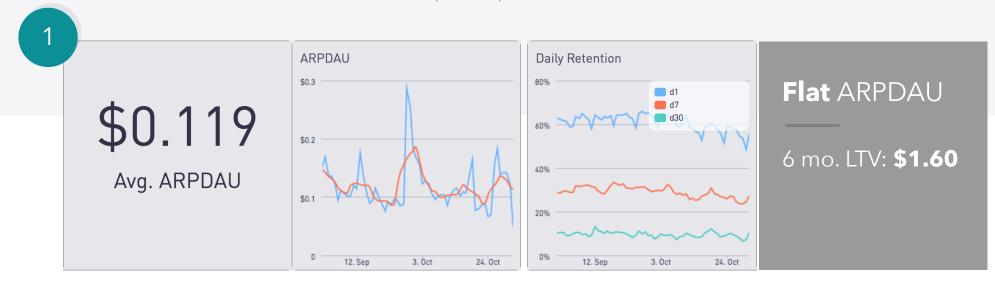
Projecting LTVs Spend patterns vary by game and genre



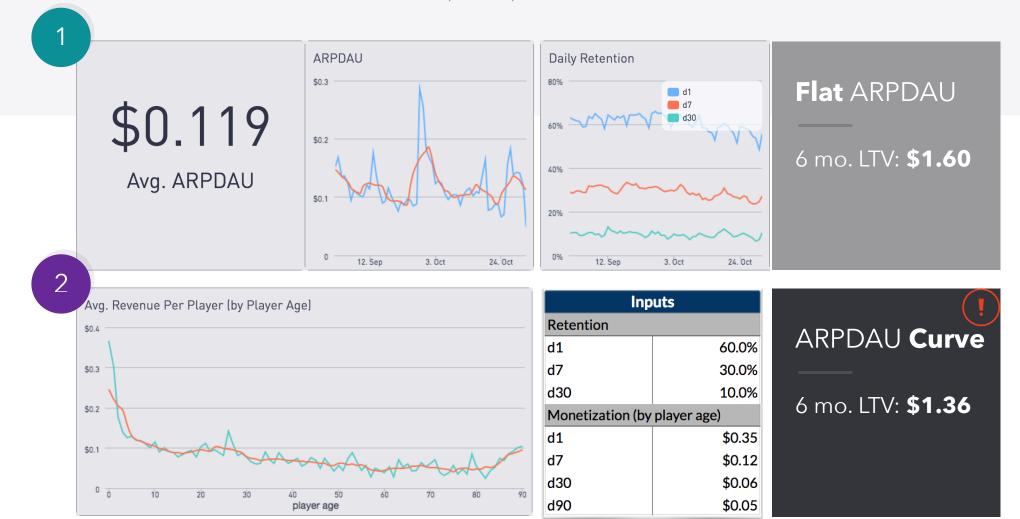


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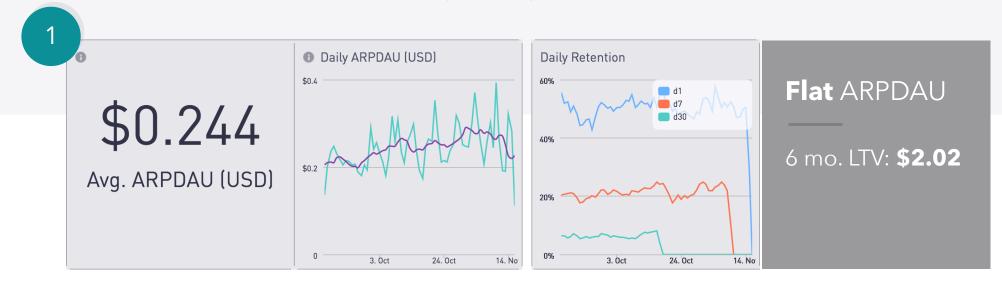
Example A: Upfront Monetization



Example A: Upfront Monetization



Example B: Deep Monetization



Example B: Deep Monetization









Live servicing is crucial

Maximizes long term KPIs

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Content Cadence

New content, regularly



Limited time packs and bundles



Content Cadence

New content, regularly



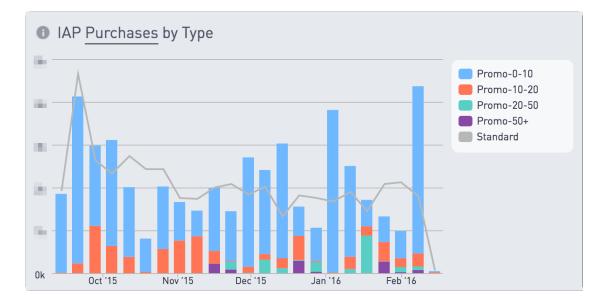
Limited time packs and bundles



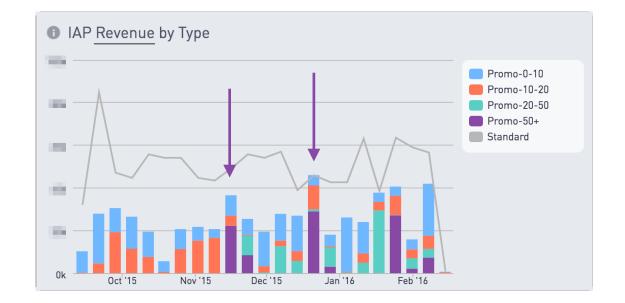
Increase revenue baseline

Target Different **Player Types**

Different approaches, similar lifts



Lower price points generate **more purchases**



Higher price points offset fewer purchases

Limited Time Events

Adding content without hurting core play modes



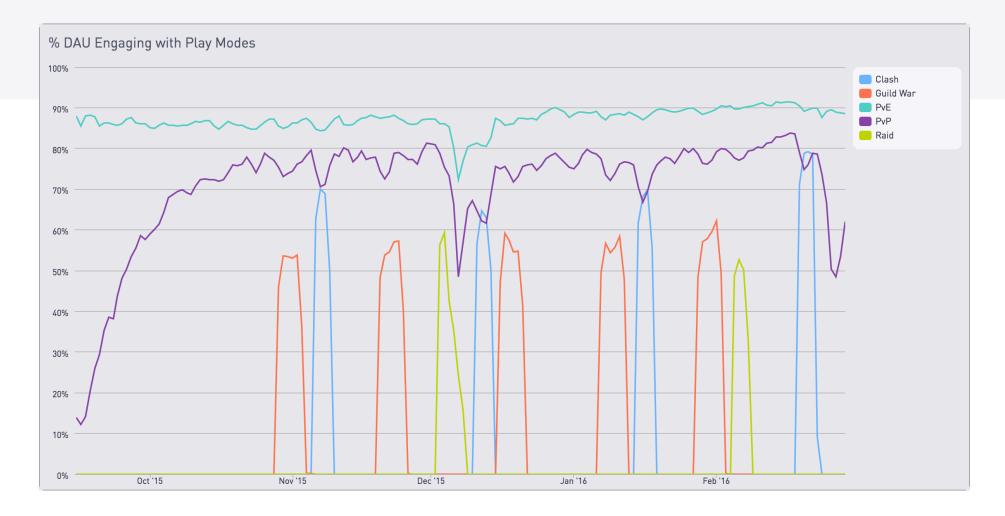
Limited Time Events

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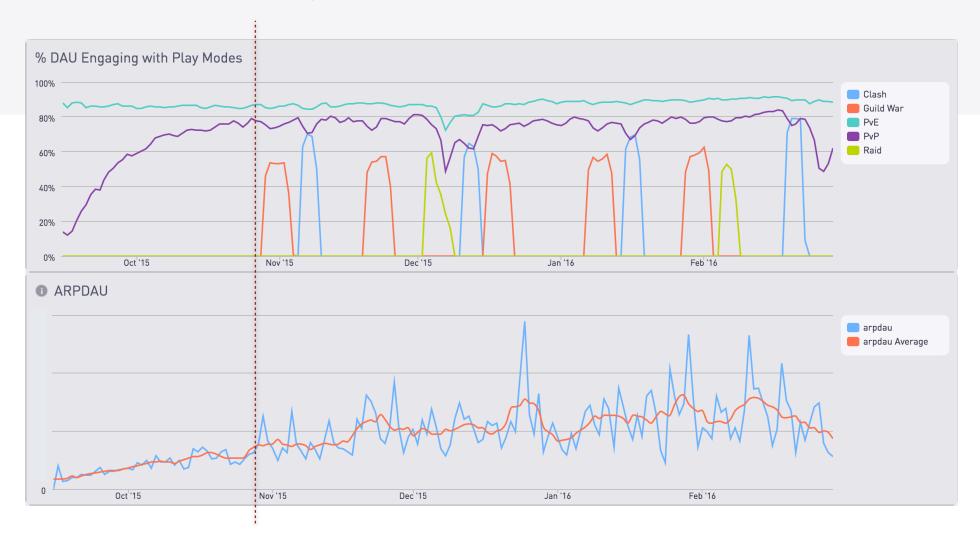
Limited Time Events

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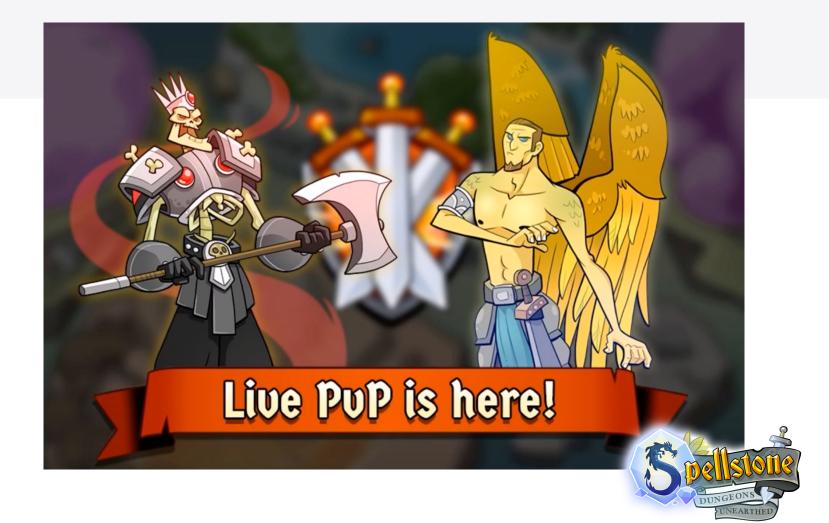
Monetization Growth

Competitive Events: Players are more likely to monetize



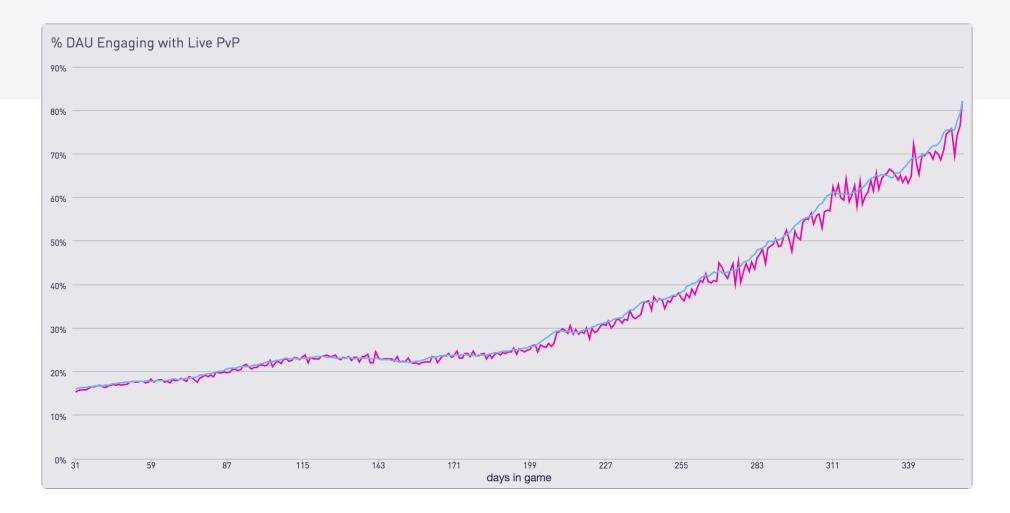
Servicing Elder Players

Live PvP released as one year celebration



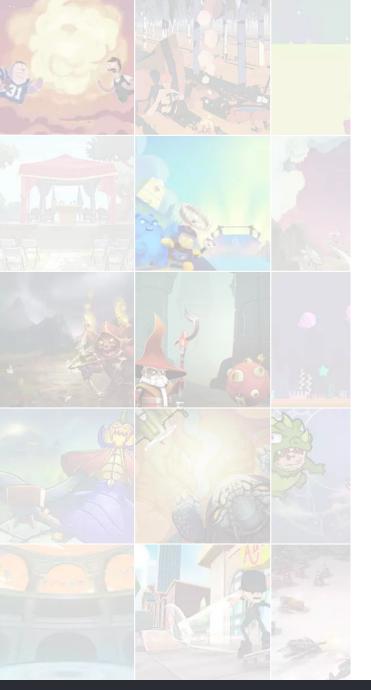
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Key Takeaways







Thank you



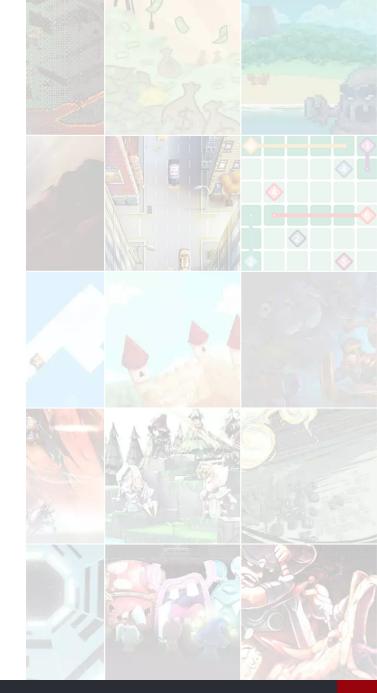
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