

Beating the Content Treadmill: Using Procedural Design in AdVenture Capitalist

GABRIEL LEFEBVRE

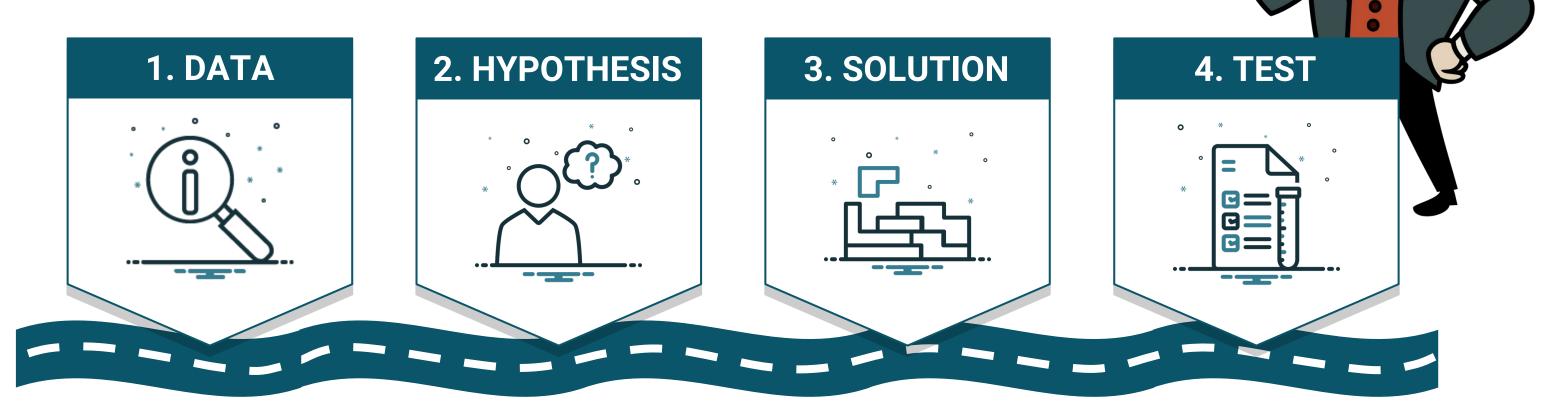
Game Design Manager – Hyper Hippo Games





The Live-Ops Journey

Takeaway goal: best practices and design learnings when iterating on a feature.





What is Adventure Capitalist?



GAMEPLAY:

Progress Bars

MAIN PLATFORMS:

iOS, Android

GENRE:

Incremental Idle Clicker







AdCap Limited Time Events





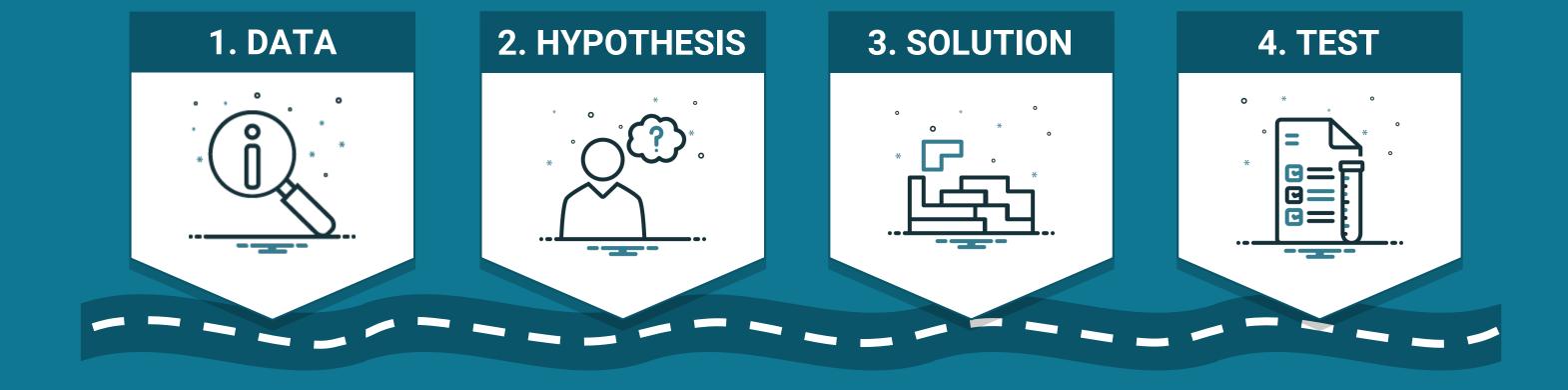


EARN CASH



LEADERBOARDS





1. DATA

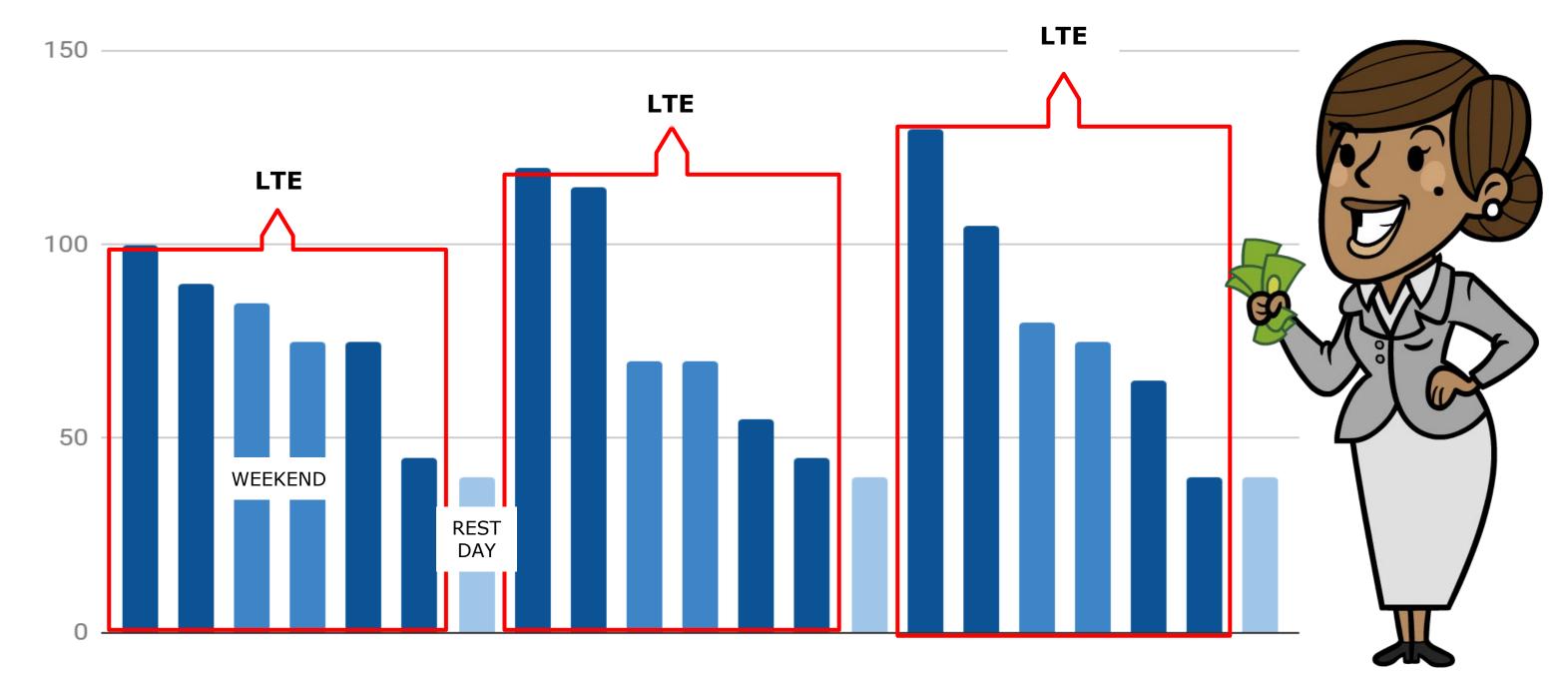
2. HYPOTHESIS

3. SOLUTION

4. TEST



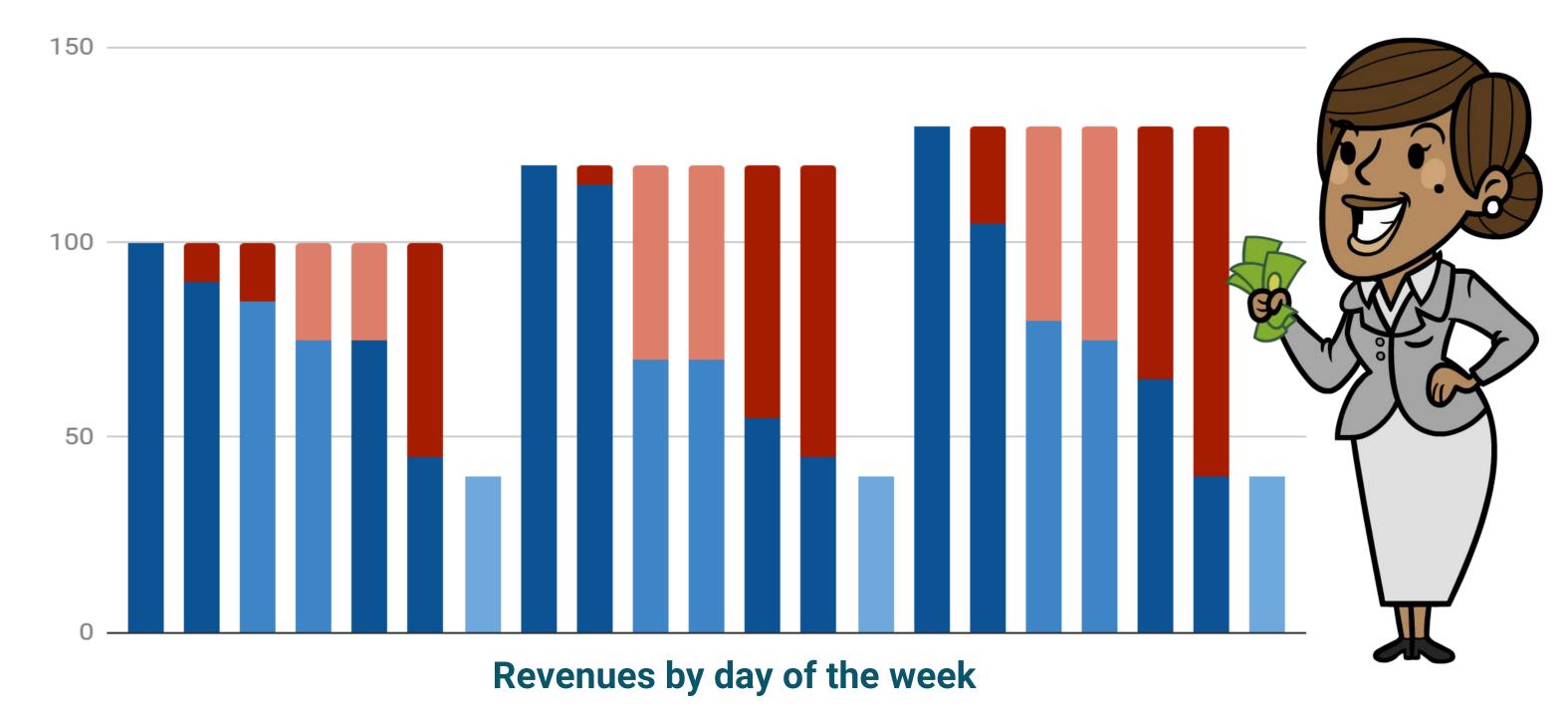
Identifying Low Performance Indicators



Revenues by day of the week

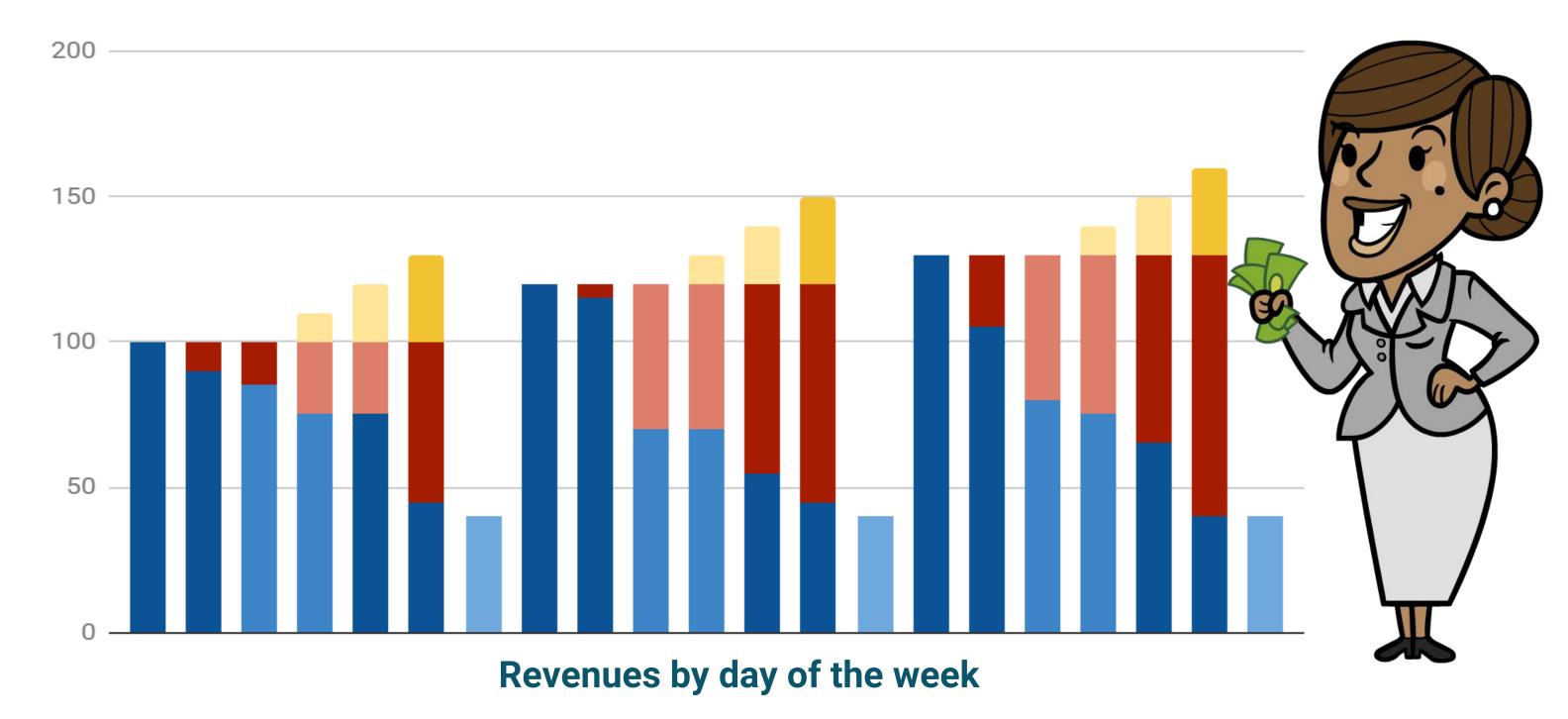


Identifying Low Performance Indicators





Identifying Low Performance Indicators



1. DATA

2. HYPOTHESIS

3. SOLUTION

4. TEST

Setting an Hypothesis

INCREMENTAL NATURE

PERMANENT MULTIPLIERS **PROGRESSION BASED LEADERBOARD**

SPEND AND COAST

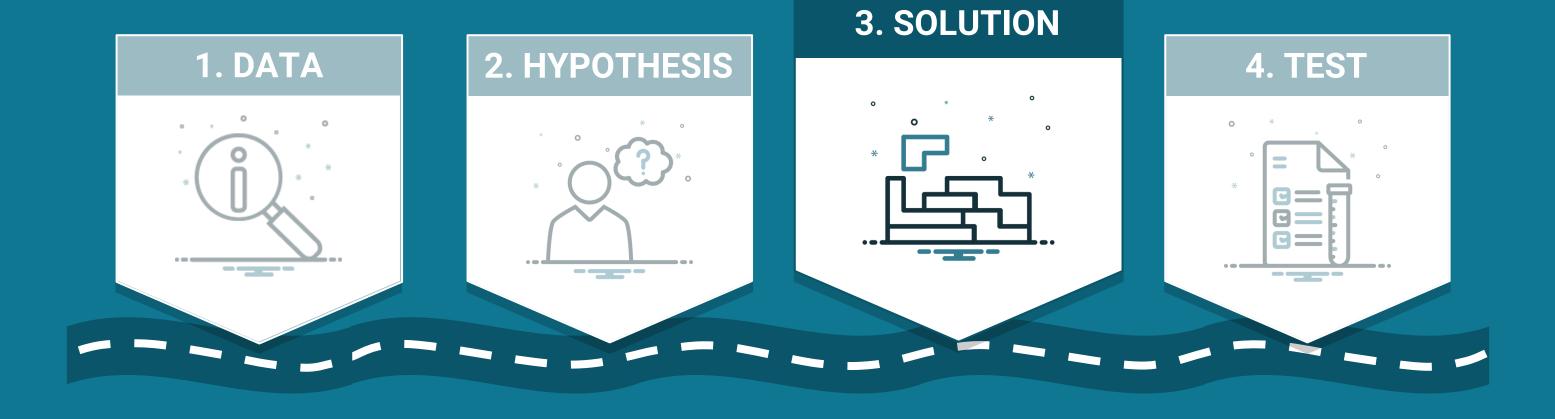












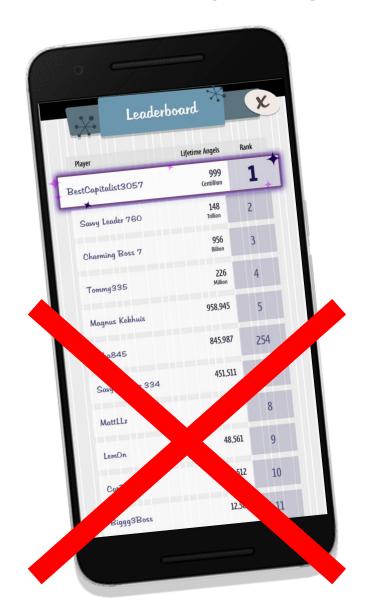


Designing a Solution: The Goals

PREVENT COASTING



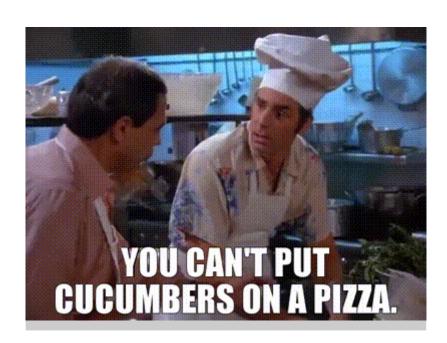
PREVENT UN-COMPETITIVE **LEADERBOARDS**





Designing a Solution: The Risks

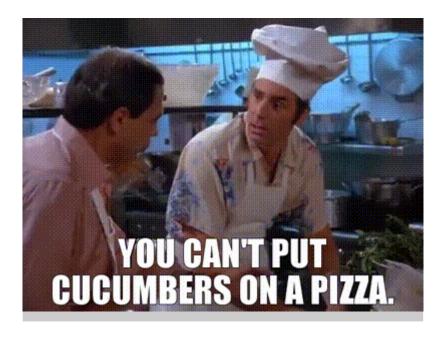
MESSING UP THE TRIED & TRUE RECIPE





Designing a Solution: The Risks

MESSING UP THE TRIED & TRUE RECIPE



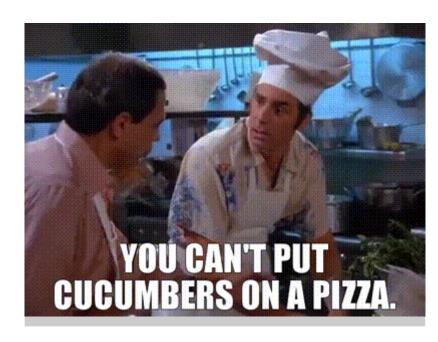
20 DIFFERENT THEMES





Designing a Solution: The Risks

MESSING UP THE TRIED & TRUE RECIPE



20 DIFFERENT THEMES



15 DIFFERENT BALANCES









QUEST SYSTEM



Goals are always relevant to current progression







QUEST SYSTEM



Goals are always relevant to current progression





GET POINTS





QUEST SYSTEM



Goals are always relevant to current progression





GET POINTS



LEADERBOARDS





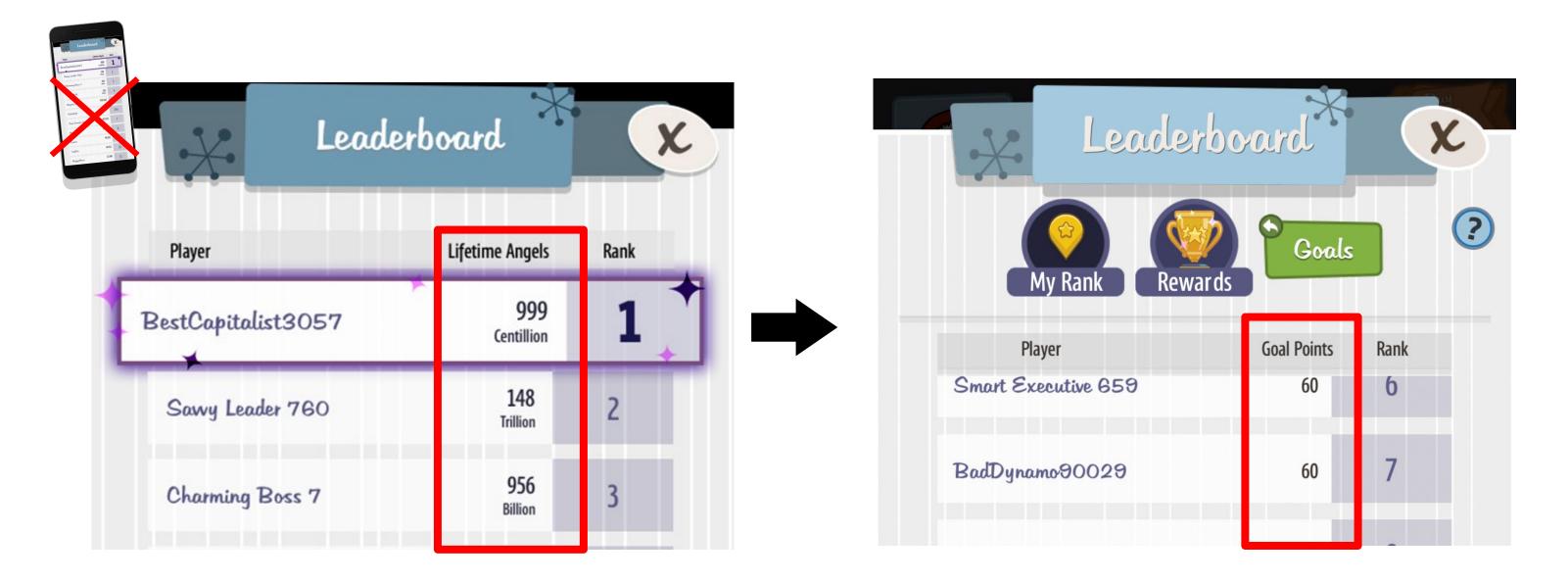


Designing a Solution: Reaching Goals





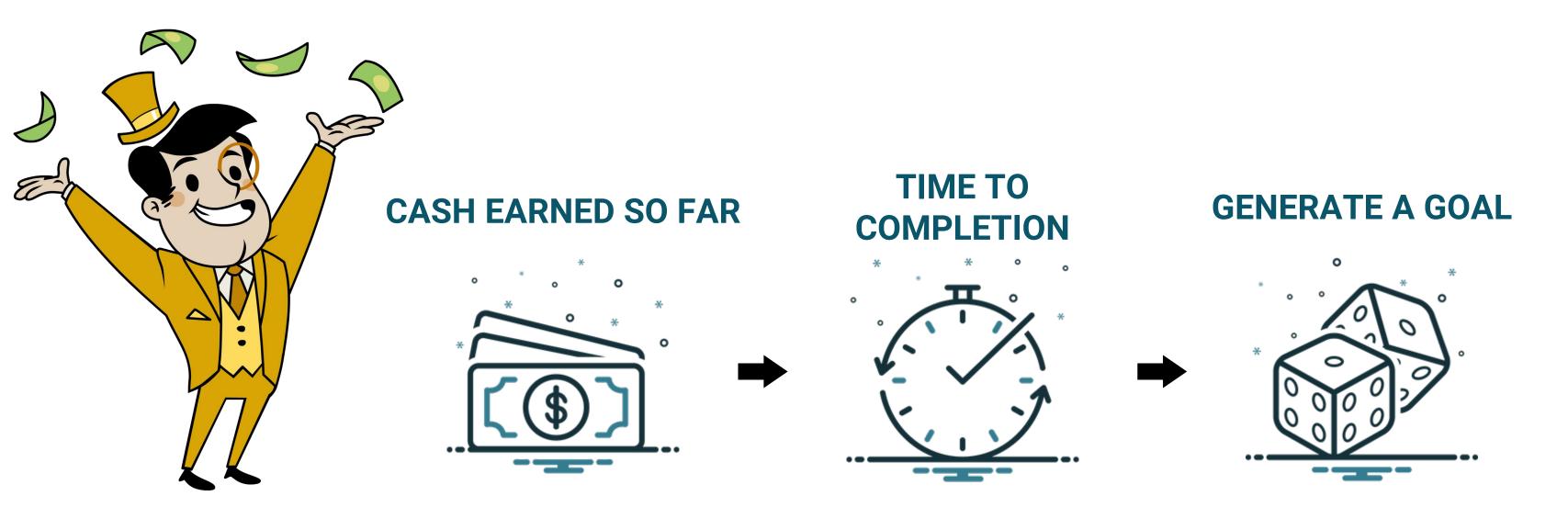
Besigning a Solution: Reaching Goals



KEEP LEADERBOARDS COMPETITIVE



Building a Solution: Procedural Balance





Goal

Provide procedural objectives to encourage continuous engagement

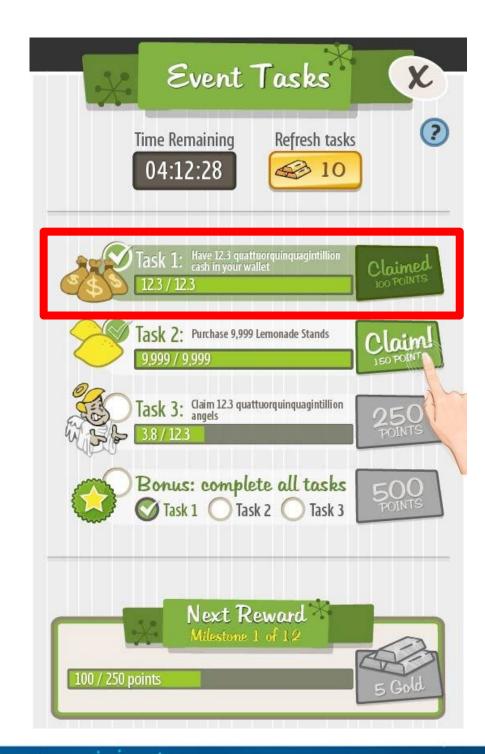


Goal

Provide procedural objectives to encourage continuous engagement

Features

Tasks of various difficulty/points

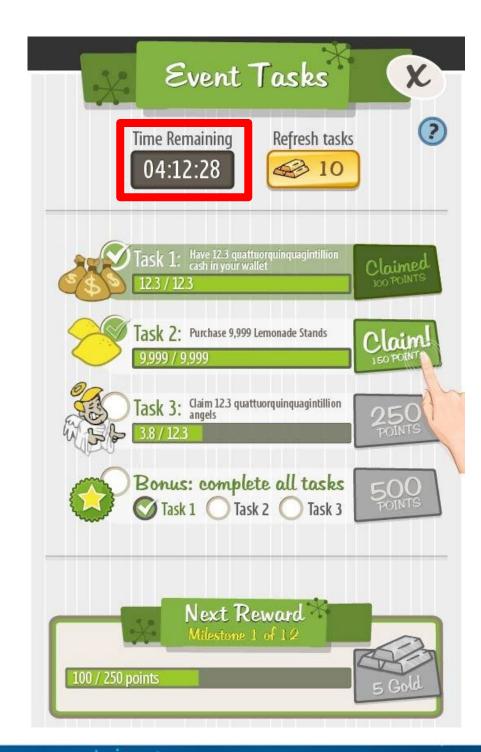




Goal

Provide procedural objectives to encourage continuous engagement

- Tasks of various difficulty/points
- Time limit





Goal

Provide procedural objectives to encourage continuous engagement

- Tasks of various difficulty/points
- Time limit
- Refresh





Goal

Provide procedural objectives to encourage continuous engagement

- Tasks of various difficulty/points
- Time limit
- Refresh
- Completion bonus

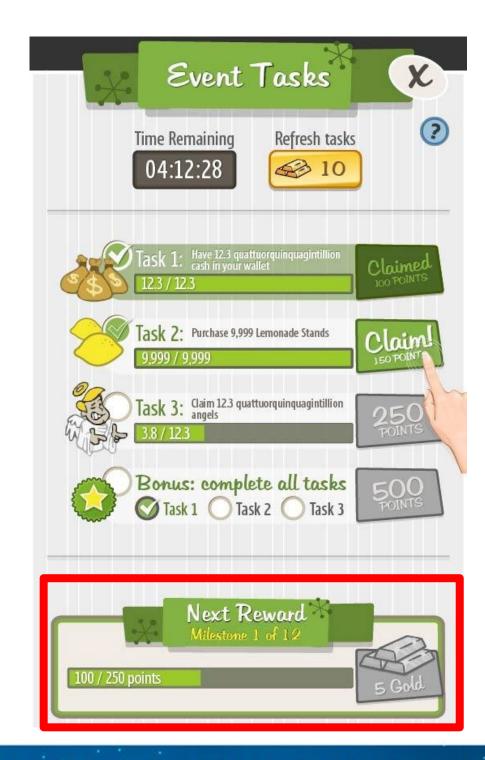




Goal

Provide procedural objectives to encourage continuous engagement

- Tasks of various difficulty/points
- Time limit
- Refresh
- Completion bonus
- Milestone rewards





Goal

Provide procedural objectives to encourage continuous engagement

Features

- Tasks of various difficulty/points
- Time limit
- Refresh
- Completion bonus
- Milestone rewards



Playtest Results

What works

- The objective targets are appropriate to the player progression
- The milestone tracks motivates completion for non competitors



Goal

Provide procedural objectives to encourage continuous engagement

Features

- Tasks of various difficulty/points
- Time limit
- Refresh
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Playtest Results

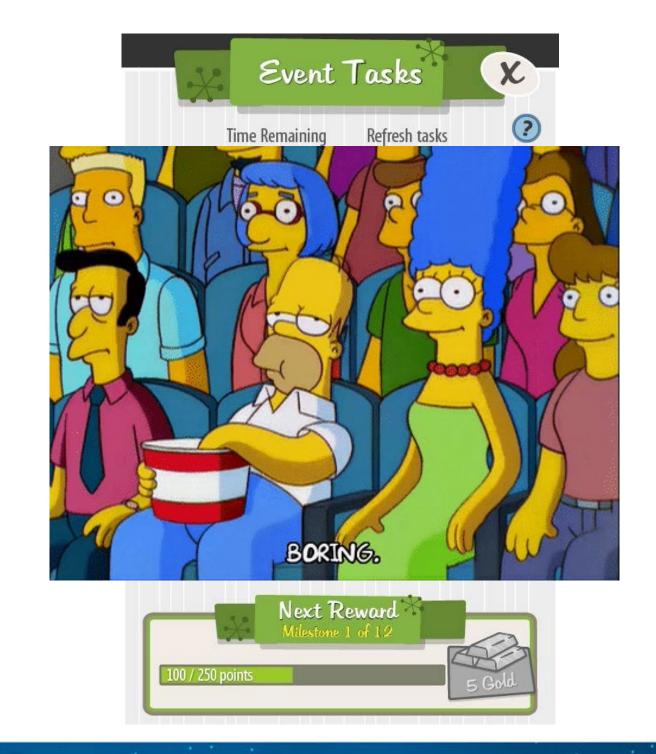
What works

- The objective targets are appropriate to the player progression
- The milestone tracks motivates completion for non competitors

What doesn't

- UI needs a pass
- Completing all objectives left with nothing to do, disengaging players







Goal

Solve the NO GOAL problem.



Goal

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- When all goals are completed, you get a new set of goals
- No UI or visual changes





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Playtest Results

What works

Engagement was improved thanks to goals always available



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Playtest Results

What works

Engagement was improved thanks to goals always available

What doesn't

- Reveals a pre-existing issue: time limit leads to missing goals.
- Appointment mechanics with penalties for missing it = disappointment











Goal

Reduce frustration from time limit



Goal

Reduce frustration from time limit

Features

Now 4 tasks at once





Goal

Reduce frustration from time limit

Features

- Now 4 tasks at once
- Time limit to get bonus points based on timer





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Playtest Results

What works

4 tasks as once give the player more options



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Playtest Results

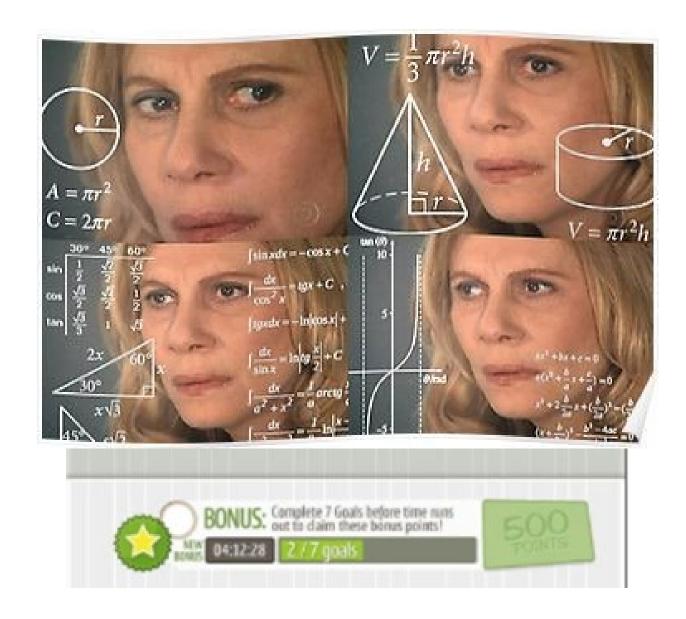
What works

4 tasks as once give the player more options

What doesn't

The timed bonus is a complex mechanics (2 combined factors) that is not intuitive enough, especially given the game target audience.







Goal **Simplify**



Goal Simplify

Features

- New UI
- No time limit



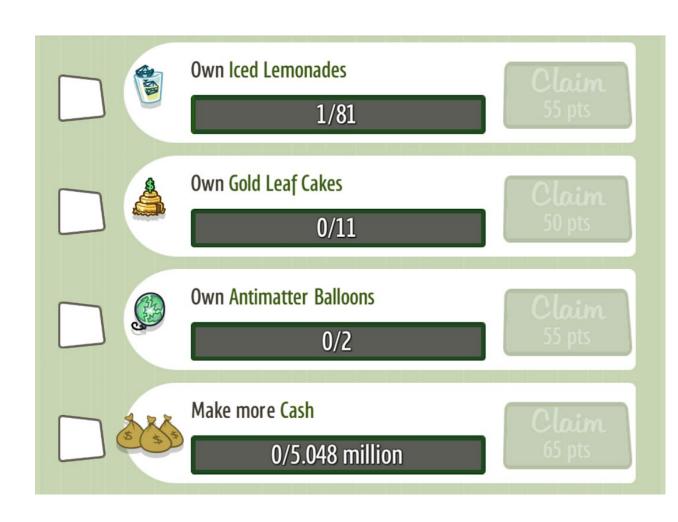


Goal

Simplify

Features

- New UI
- No time limit



Playtest Results

What works

- Players love the new UI
- The absence of time limit removed the frustration

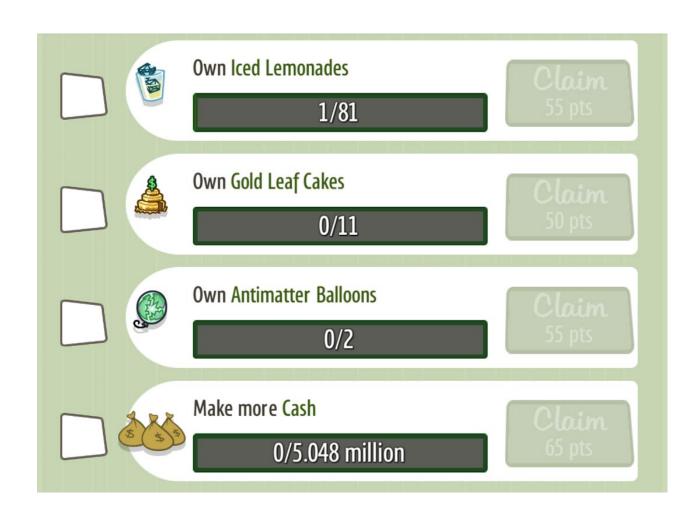


Goal

Simplify

Features

- New UI
- No time limit



Playtest Results

What works

- Players love the new UI
- The absence of time limit removed the frustration

What doesn't

- The built-in appointment mechanic is lost
- The simplicity leads to players feeling it's missing something





GoalAdd some delight



Goal

Add some delight

Features

- Random bonus tasks: more difficult, more points
- Bonus tasks have a time limit



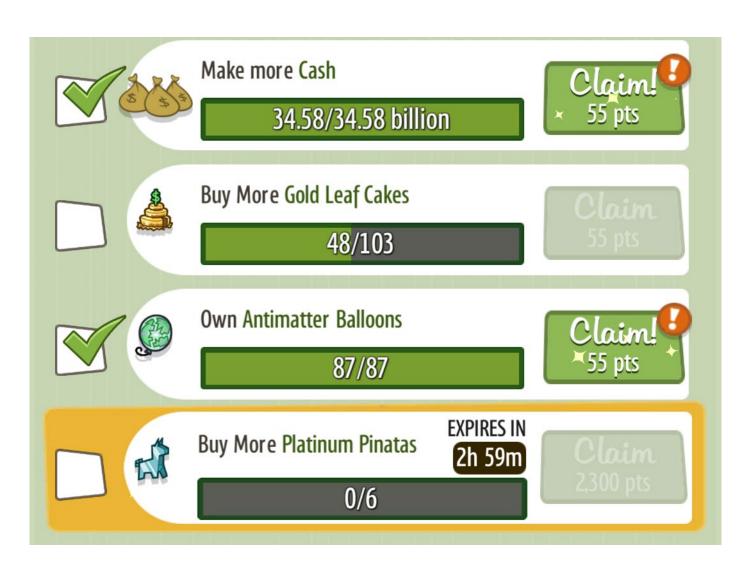


Goal

Add some delight

Features

- Random bonus tasks: more difficult, more points
- Bonus tasks have a time limit



Playtest Results

What works

The delight caused by the surprise goal

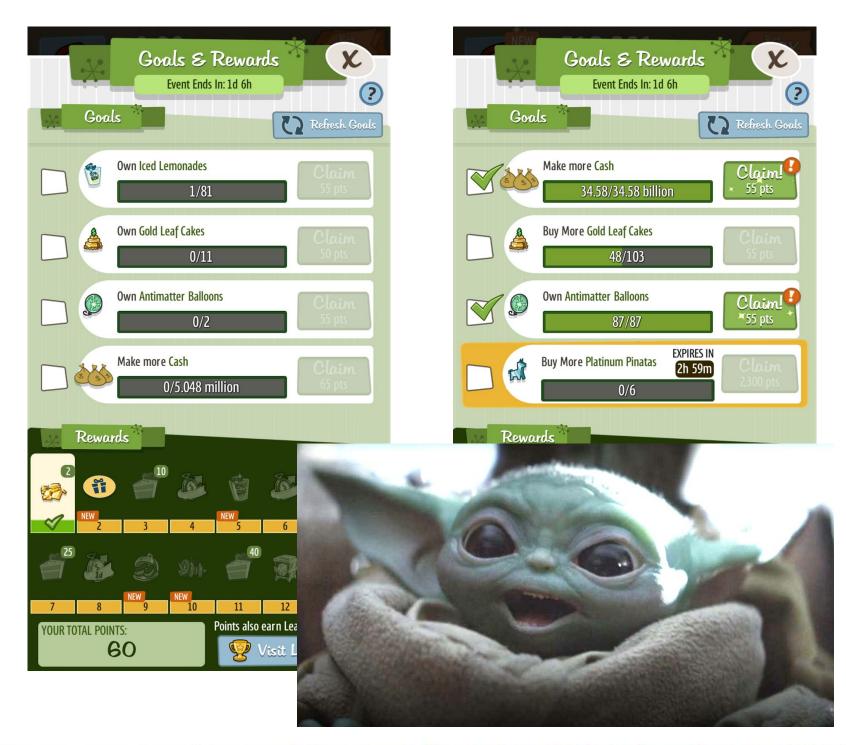
What doesn't

Nothing major











Building a Solution: Summary



Goals every 4 hours

If you add objectives, when there aren't any, players tend to disengage



Max 4 hours to complete goals

Appointment mechanics should rely on missed opportunities, not threat of failure



Goals with a timed bonus task

Intuitiveness of features is a requirement with a casual audience



No bonus, no timer

Simplifying too much can lead to lackluster features

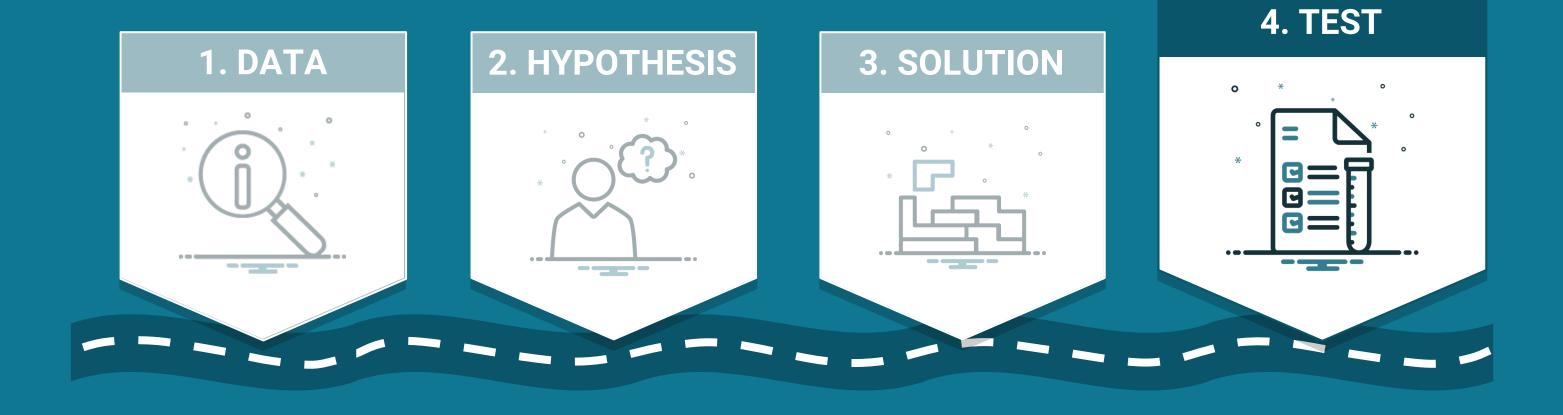


Goals paired with timed bonus tasks

> **WINNER! WINNER!**



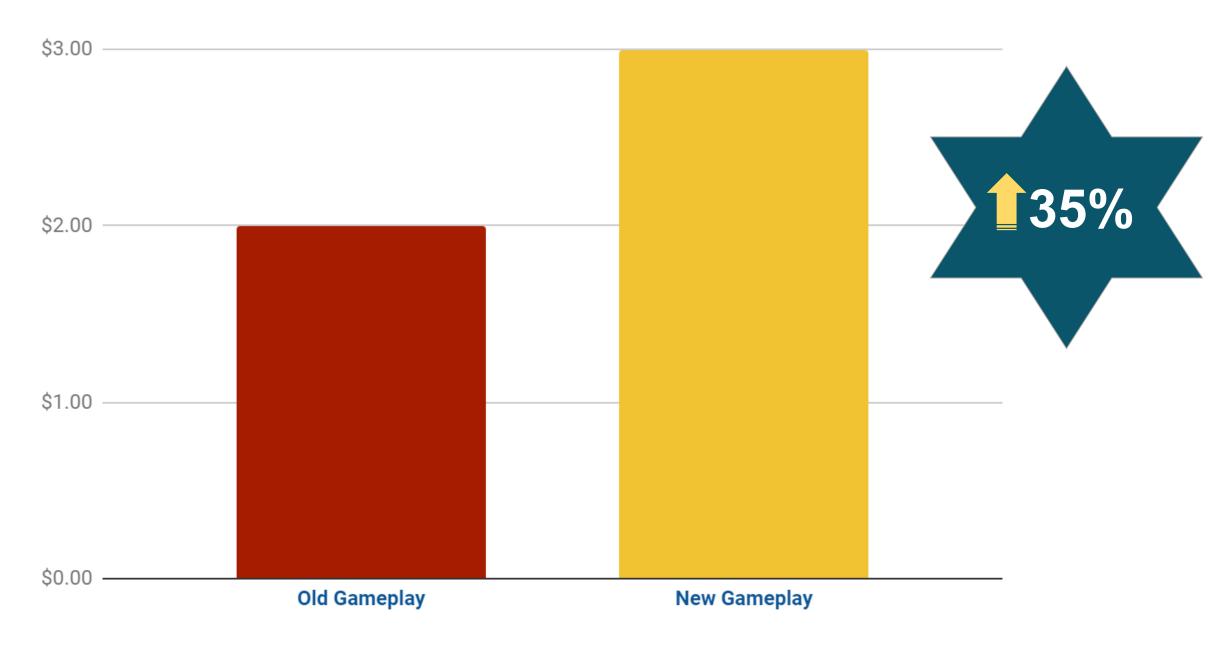






A/B Testing the Solution

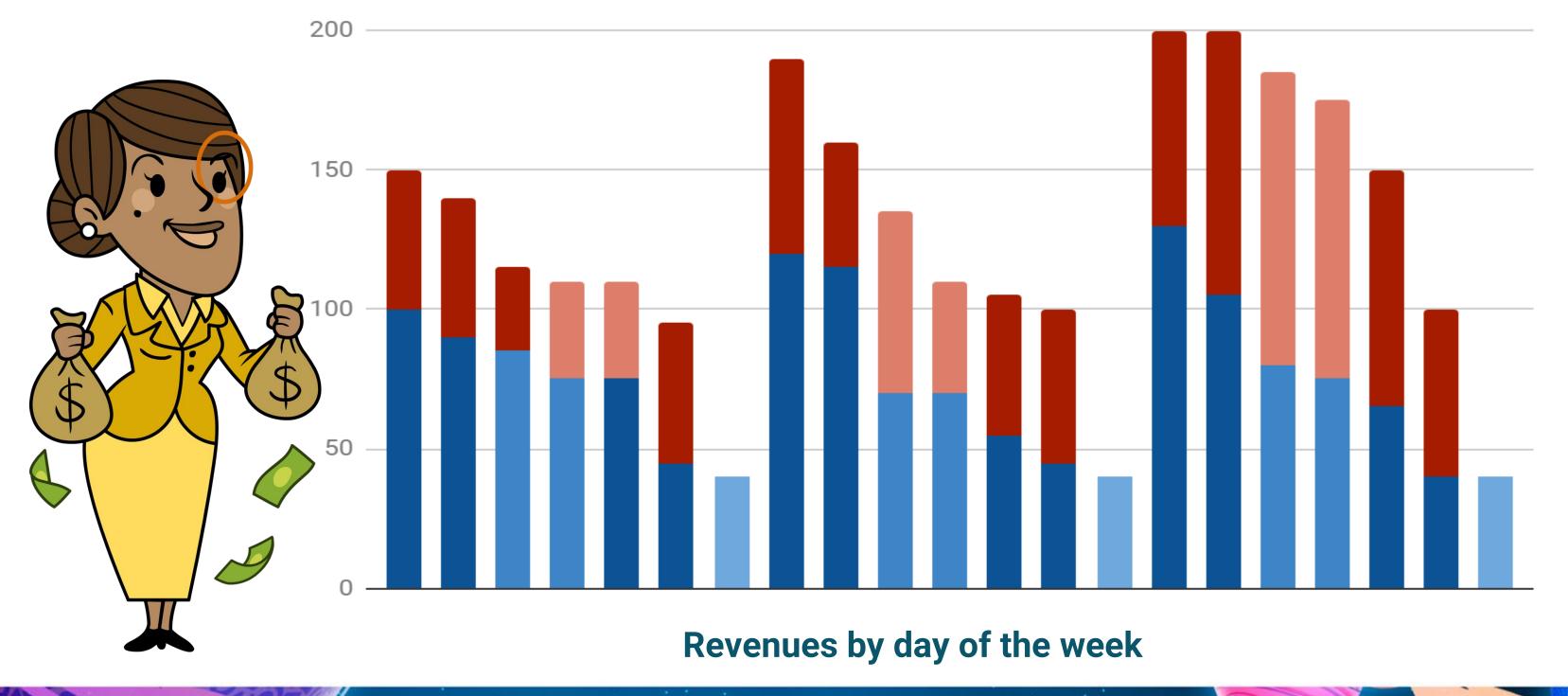




ARPDAU during the event



A/B Testing the Solution



Takeaways

PROCESS



- Time-box your prototyping
- Focus your team on the feature





PROCESS



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PROCEDURAL



- Create a numerical key predictive of progress
- Make sure spending doesn't skew your predictions





PROCESS



- Time-box your prototyping
- Focus your team on the feature

PROCEDURAL



- Create a numerical key predictive of progress
- Make sure spending doesn't skew your predictions

DESIGN LESSONS



- Avoid objective deserts
- Appointment missed should not lead to failure
- Balance simplicity and delight



GDC

Thank you!



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