

Game Designer's Notebook

Go Make a Merge game!

Jason Mai





Background

- New VP of Creative at BigFish yay!
- Lifetime of casual game development nice
- Worked on word games, board games, card games, Bejeweled,
 Zuma, Plants vs. Zombies, Solitaire, Sims 4 good for me
- Never worked on a Merge game so?
- EverMerge is our biggest hit uh-oh
- How do I steer this? hmmm...



Game Designer Reflex

Fake It!

o Talk about characters, narrative, visuals, surface impressions

Apply Transferable Skills

Tear down a game, critique its usability, play thru the FTUE,
 build a spreadsheet, deconstruct core loop, do design stuff

Try Lenses

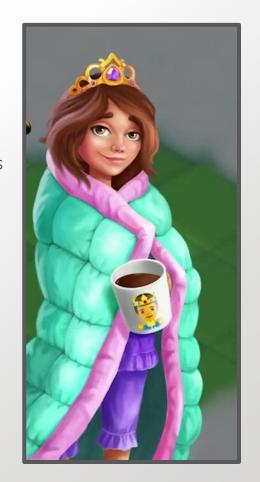
Explore player motivations, layers of overlapping goals, etc.

Read Studies

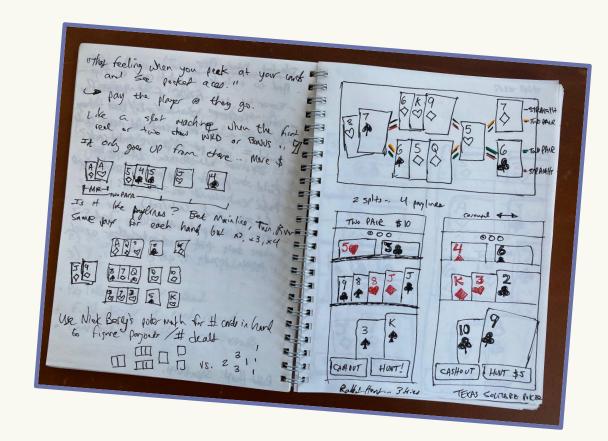
Segmentation, player surveys, competitive analysis

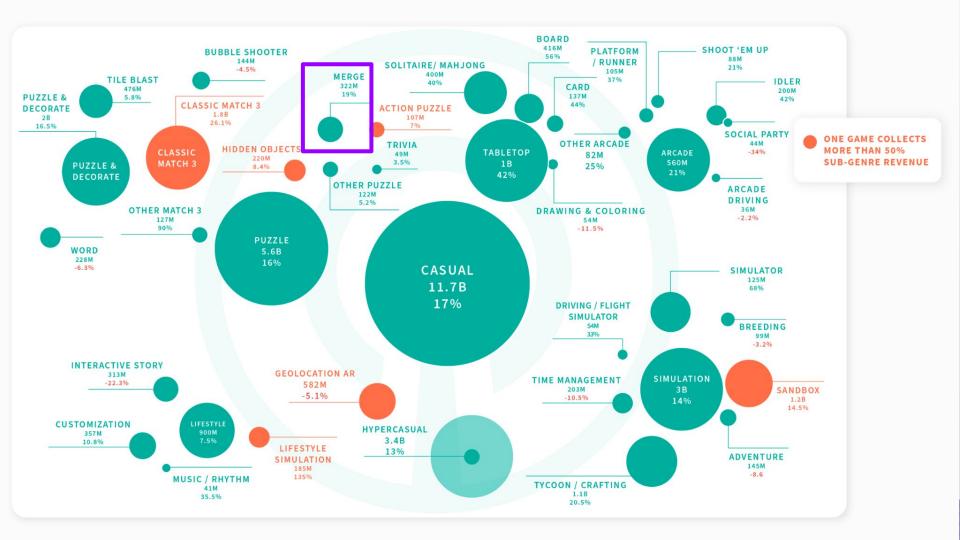
Get Deep

o Introspection, speculation, discussion with other Designers

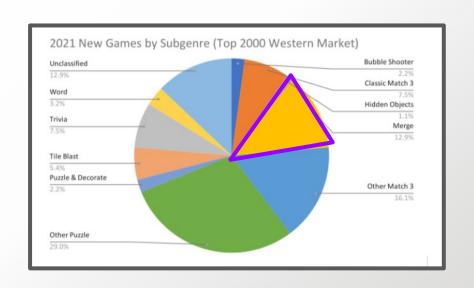


A Few Insights





- Merge Dragons
- EverMerge
- Merge Mansion
- Love & Pies
- Merge Magic
- Merge Gardens
- Merge Inn
- Merge Villa
- Merge Design
- Merge Adventure
- Merge Friends
- etc.





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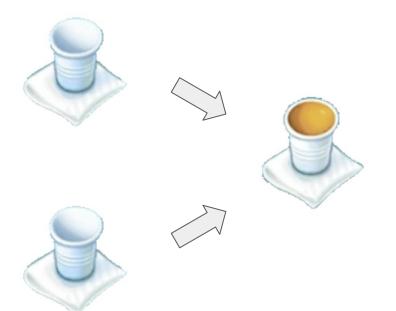




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Merge 2 items to get 1











16

32

128

256 512

1024

2048

4096

8192

























Golden Tea Service at the 14th tier, after

16,382 merges







Merge Comes in Flavors

- First, our ancestral lineage
 - Threes, 2048, Triple Town, et al.











Merge Comes in Flavors

- First, our ancestral lineage
 - Threes, 2048, Triple Town, et al
- Now, Grid vs. Camp
 - The fixed board,
 seen as a top down grid
 usually portrait
 vs
 - A scrollable camp
 seen in isometric view
 usually landscape







Merge Camp is really about Relaxing

- Meditative and calming
- Tap-tap-tap-tap-tap-tap; merge-merge
- Such long sessions! ~1 hour
- Player focus rotates:
 - Energy
 - Resources
 - Inventory
 - Sorting & organizing
- Expand territory

 and make layout choices





Merge Grid is more about Juggling

- Too many merge chains, too few grid squares
- Trade-offs! Decisions!
- Achieve objectives
- Feel clever and accomplished
- Suited to storylines & ensemble cast of characters
- Often paired with progression
 off-board in the meta game



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Merge as a Metaphor for the "American Dream"



"John felt he was living the **American dream**. He was free to live where he wanted and improve his station in life through hard work and perseverance." – WordHippo



Merge as a Metaphor for the "American Dream"



Merge as a Metaphor for the "American Dream"

- A tale of abundance, amidst never-ending supply
- Rags to riches, bootstrapping from garbage items to luxury goods
- Buffet of opportunity, social mobility, upward progress
- A tale of **pioneering**, taming a wild landscape, shaping it into a civilization
- You win by combining a materialistic impulse with organizational skills
- It's a naive tycoon game, **fantasy capitalism** in a growth economy
- The delight of every Etsy / Pinterest / Houzz crafter
- ⇒ Game every day, organize things, and get rich doing it

What do I *DO* with all that?



How should I steer new Merge games?

1. Interrogate Gameplay – to evolve

- What delights in the moment-to-moment? Amplify that.
- What drives the player to return? Offer more of that.
- What's dissatisfying / disappointing in current leaders? Ameliorate that.

2. **Vary Parameters** – to innovate

- O Decisions make a list, keep the fun ones, drop the dull ones
- O Space & Time introduce rules about *proximity, layout, terrain, weather, seasons, duration*
- O Dependencies add complexity, decouple systems

3. Catalyze Insights – to disrupt

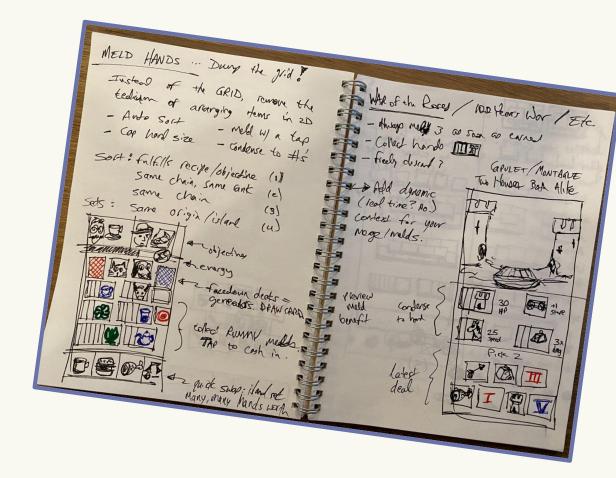
> Where I spend my time



Interrogate Gameplay

To Evolve Existing Product





What Delights Moment-to-Moment?

First, I think about actual the game play...



- What polish, animations, juiciness, doobers, rewarding visuals are key?
- What pace of acquisition, growth, expansion, tycoon-like enrichment works?
- What control scheme, snap-to-it-ness, visual confirmation, haptics, SFX?
- How could you simplify, clarify, intensify, focus the player's decision making?
- How much memory / cognitive load is required?
- How many micro-decisions, where do players look, what am I thinking about?

E.g. 5-tiered Haptics. Highlights on matching items. Surprise bonus payouts.

What Drives the Player to Return?

But also, the meta game...



- What stories, narratives, characters, or dramas resonate most strongly?
- What unfinished goals remain, nagging at their brains?
- What success awaits the player? What stored up potential ready to tap?
- How easily can players pick up where they left off and remember the plan?
- What nudges in real-life, or advertised changes to the meta-game, or social obligations, influence their return?

E.g. Mystery. Nemesis. Timers ready. Holiday decorations. Happy hour. Recap.

What's Dissatisfying about Existing Games?

Go negative, and make it a positive...

+1

- What need is left unmet?
- What quality-of-life feature would make game sessions less frustrating?
- When you look back at your hours, what do you regret?
- How do you feel about the aesthetics, dynamics, narrative?
- What kind of power inflation would be most welcome?
- Where do you sag, slow, dry, bore, grind?

E.g. Undo Button. Merge Confirmation.Merge Magnet. Bag of Holding. Spotlighter.



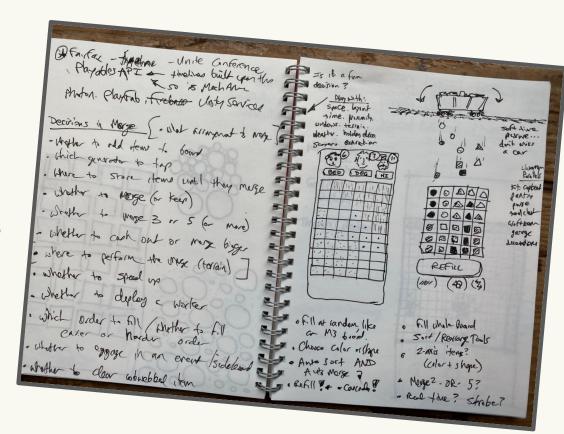




Vary Parameters

To Innovate a New Product

x2







- How many new items to add to the board
- Which generator to tap
- Where to store items while waiting to merge
- Whether to merge now, or keep for later
- Whether to cash out, or merge bigger
- Whether to deploy a worker
- Whether to speed up building
- Which customer order to fill
- Whether to engage in an event / sideboard
- Whether to clear a cobwebbed item





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E.g. Is this fun? An interesting decision?

Tap-tap-tap-tap.



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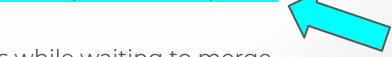
Combine these two decisions into one.







Which recipe to pursue → spill out max pieces



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Combine these two decisions into one.

Tap a generator ONCE to fill the whole board with enough items to reach the next merge



Introduce Rules About Space & Time



Change the outputs of the Merge board based on:

- **Proximity** between items
- **Layout** of items
- **Terrain** of grid itself
- Weather random at the moment
- **Seasons** predictable over time
- Duration expirations & opportunity windows & elapsed time



E.g. Vegetables merge better during Fall Harvest; flowers only during Spring

E.g. Plants wither, milk sours, cats walk off the board - more action in the camp, without player input



Play with Dependencies



- Increase complexity
- Add character classes / differentiated roles + social obligations
- Introduce meta ⇔ mechanic dependencies
- -OR- decouple systems

E.g. Introduce tech-tree dependencies, so that merge chain A branches into merge chain **B**-or- **C** at the player's discretion

E.g. Add weak Wildcard items, usable on just a few merge chains







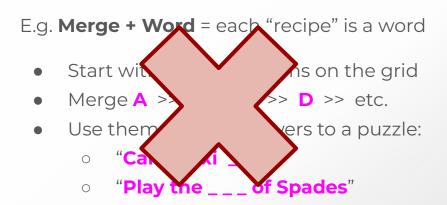
E.g. Eliminate the game board. Just meld from a hand of cards, and let players decide when to meld them.

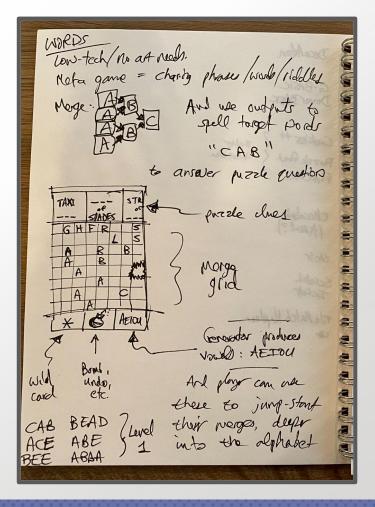


Mash-Up / Hybridize



- Cross-pollinate two genres
- Pair the mechanic with a different meta
- Add a new motivation



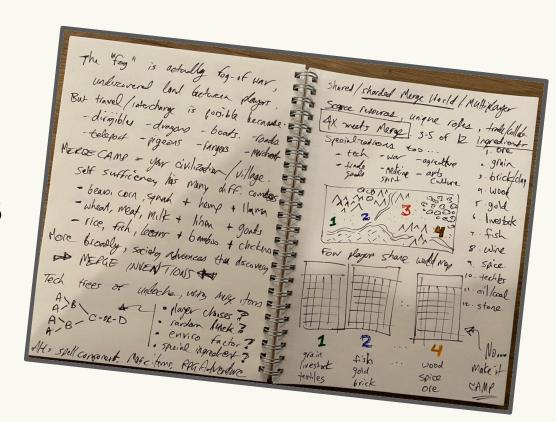




Catalyze Insights

To Disrupt a Genre

^3

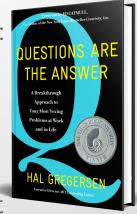




Craft Some "Catalytic Questions"

A technique to inspire innovation and solve bigger problems:

- 1. Pick a topic (e.g. Disrupting the Merge genre)
- 2. Force yourself to ask no-less-than 40 questions about it
- 3. Don't try to answer them! Just keep asking
- 4. Prioritize the 3-4 questions that would yield most impact





"Talk to creative problem-solvers and they will often tell you, the key to their success is asking a different question."

HAL GREGERSEN

"Getting the right question is **key** to getting the right answer."

JEFF BEZOS



Everything changed for the better when I realized that I was asking the wrong question ... the best way to get to a better answer is to start with a better question."

ARIANNA HUFFINGTON



My Catalytic Questions...

- 1. What story / theme best matches Merge mechanics?
- 2. What is the purest expression of joy in the Merge mechanic itself?
- 3. What constraints of "puzzle games" did Merge games relax in the first place?
- 4. What's **the ONE IDEA that embodies** the spirit of Merge Games?
- 5. What is the player chasing what pleasurable drip, what escapist fantasy?
- 6. What's the nearest genre, in terms of player motivation?
- 7. How could we reduce the cost of the content pipeline?

• • •

- 31. What if Merge delivered even MORE of the "American Dream" fantasy?
- 32. What if Merge RESISTED indulging the "American" fantasy so readily?
- 37. What if Merge taught players HEALTHY ways to live out the fantasy?

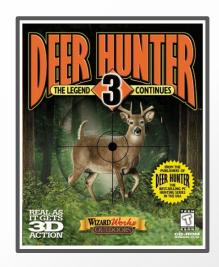
- Lean into a casual gratification of the player's fantasy
 - GREED
 - PIONEERING
 - COUNTRY
 - o etc
- Help players manage the scope & scale of their fabulous wealth



















- Lean into a casual gratification of the player's fantasy
 - GREED
 - PIONEERING
 - COUNTRY
 - o etc
- Help players manage the scope & scale of their fabulous wealth
- Example Outcomes
 - Scrooge McDuck stockpiling coins and precious items in a Treasure Vault
 - 40 Acres and a Mule pioneers merging the wilderness in a Sprawling Prairie
 - O MAGA Merge America Great Again, with guns & ammo or Quilts & Mason Jars



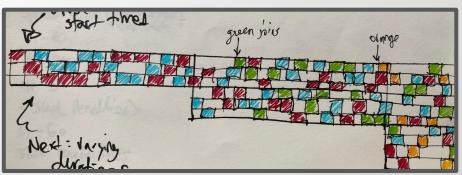
RESIST Indulging So Easily

My 17th Life: Carpenter

Imagine a Rogue-like Merge game

- Repeatable, one "life" per session
- Get as far as you can and then die
- Make the most of what you're dealt
- Work to unlock better roles
- 1st life: Hunter or Gatherer
- 100th: Tinker, Tailor, Butcher,
 Baker, Nobleman, Thief



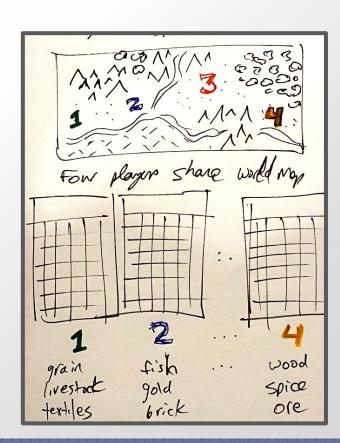




RESIST Indulging So Easily

Imagine a sharded Merge world

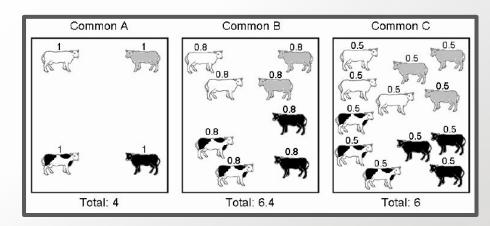
- Scarcity
- Joint struggles
- Tragedy of the Commons vs.
 Personal Sacrifices
- "Merge 5" lives for double progress towards a shared community goal
- A heap of human history

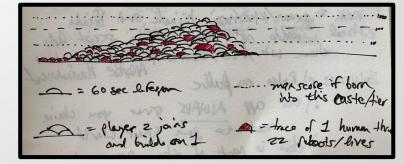


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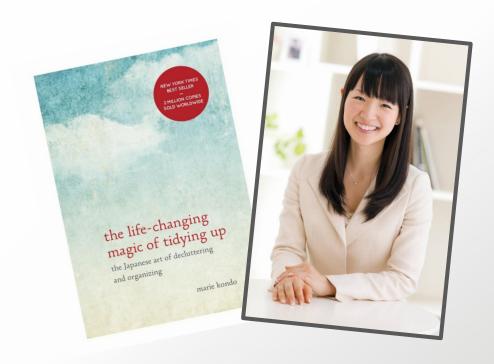
- Help players learn to juggle
 - Wants & needs
 - Budget & time
- Lean into responsible, healthy, civic-minded themes
- Connect to real-world guidance & benefits

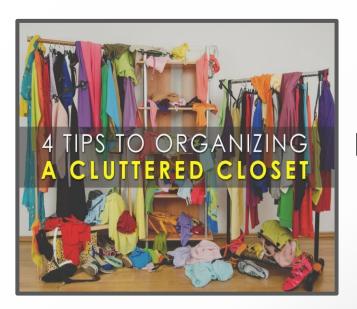






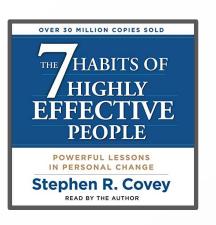


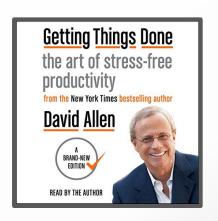










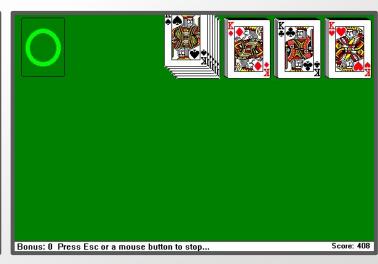
















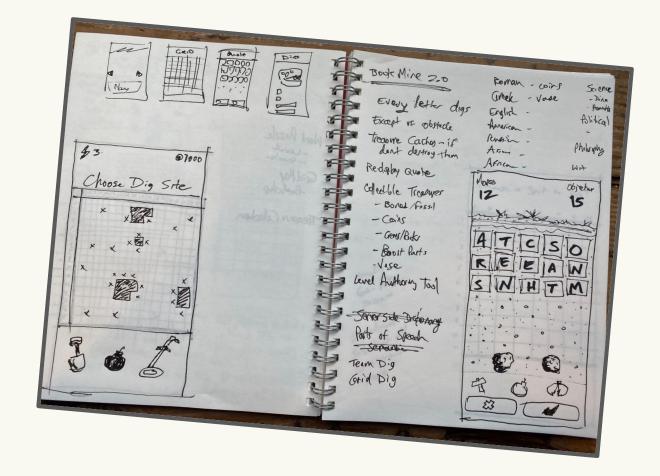






Merge 1

Summary





Recap

Parachuting into a new genre, here's how I got my bearings to chart a course:

- Fake it talk art & theme
- **Deconstruct** the competition
- **Try Lenses** for different perspectives
- Read Studies learn from others
- Go Deep brainstorm with others
- Interrogate Gameplay to evolve +1
- Vary Parameters to innovate x2
- Catalyze Insights to disrupt ^3



Conclusion

- I can't say where BigFish will take the Merge genre, BUT...
- This is what's in my notebook, as I grapple with the questions, like:
 - o How might the Merge genre evolve underneath us?
 - What tidal forces are shifting puzzle appeal?
 - o How might we ride the wave?
 - o How we might create it?
- I share them in the hope that we can explore this space together

⇒ Good luck to all of us!



Thank you!

