Crafting Reality

Advanced Techniques in Tabletop Game Prototyping





Knowledge to be Dispensed Into Your Brains

- When you should make a physical prototype.
- What your prototype should look like vs. who it is geared towards.
- A shopping list of good prototyping tools.
- A bare-bones introduction to InDesign Data Merge for laying out cards.
- A list of great resources for expanding your prototyping skills.

WARNING: TABLETOP GAME DESIGN TALK

Who Are We?

Michael Epstein

Director, Copper Frog Games LLC

Northeastern University -English & Game Design alum

Tabletop Credits:

- Tattoo! The Game of Ink
- *Pigment* (coming to PAX East 2017)
- **Seek and Go Hyde** (unreleased)
- A dozen+ more small prototypes

Breeze Grigas

Director, Zephyr Workshop

Becker College -Game Design alum

Tabletop Credits:

- AEGIS: Combining Robot Strategy Game
 - o So. Many. Robots.
- Wind S.A.B.E.R.S. (unreleased)

When Should I Make a Prototype?

If you're thinking about making a prototype, that is the time.

- Can you get someone through a single turn of the game?
 - Playing the game will always yield more useful results than internally mulling it over
- Do you need to test a key mechanic?
 - Make a prototype that does JUST THAT, ideally not using the theme you're shooting for, and isolate that variable for testing

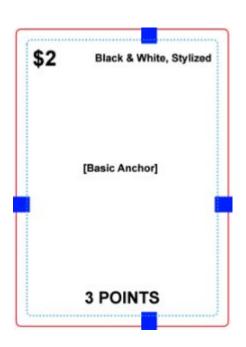
Understand the Goal of Your Prototype

- Stage 1: Is it to show playtesters you know?
 - It should be clear and legible.
- Stage 2A: Is it to show the public?
 - Self-publishing or crowdfunding? It should look nice.
 - Testing? Worry about usability more than aesthetics.
- Stage 2B: Is it to show to publishers?
 - It should be very refined and complete mechanically.
 - Art is not as important, as they will likely change it all later.
- Playtesters should always be questioning the *game* and not the materials.
 - o If you're only getting feedback on the looks, go back to empty boxes and ugly fonts.

First Prototypes for *Pigment & Tattoo! The Game of Ink*



Pre-perforated cardstock, plastic cubes (July 2016)



Adobe Illustrator (August 2014)

Stage 1 / Early Prototyping Materials:

- Card Sleeves and Backwards Trading Cards
 - Allow much easier shuffling than printed paper alone
 - Come in different colors for different card types/games
 - Prevent damage to prototype cards
- Paper Cutter
 - Scissors are inaccurate and tedious to use for long periods
- Pre-Perforated Paper (perforatedpaper.com)
 - Pros: Better-feeling than Index Cards! No cutting required! Printable!
 - Cons: Expensive, requires layout software to use effectively if printing.
- 1" Craft Punch
 - Make your own custom tokens from printed, folded, and glued cardstock!







Stage 1 / Early Prototyping Materials (continued):

- 1 cm Plastic Cubes
 - Usable as pawns, resources, and more
 - Come in multiple colors, literally by the bucketload
- Dice
 - The classic method of introducing randomness since the 24th century BCE!
 - o Odds are you already have some. Looking at you, roleplayers.
- Hexagonal/Square Grid Paper
 - Never free-hand things if you don't have to
- Other Board Games
 - Full of bits and bobs that you can draw inspiration from or combine into new prototypes
 - *Mouse Trap* has cheese tokens, *Monopoly* has play money, *Bananagrams* has letter tiles...







Stage 2 / Prototyping Software:

- Adobe Photoshop
 - Raster (pixel-based) image manipulation/creation program
 - Use this for manipulating images to use as card art, or for digital painting.
- Adobe Illustrator
 - Vector (curve-based) illustration program.
 - Good for icon design.
- Adobe InDesign
 - More on this tool shortly!



THESE ARE ALL <u>WICKED EXPENSIVE</u> AND OFTEN BEST LEFT TO ART AND GRAPHIC DESIGN PROFESSIONALS LATE IN THE PROTOTYPING PROCESS.

Stage 2 / Prototyping Software (continued):

- *Tabletop Simulator* (Steam game)
 - o Pros:
 - Test your prototypes digitally with cards, tokens, dice, animated minis, and more
 - Physics sandbox, not much in the way of easily programmable rules
 - Playtest with people around the world more eyes on a project never hurts!
 - Can share builds of a game with Kickstarter backers to get them playing the game NOW
 - o Cons:
 - Slow to use, since you only have 1 mouse pointer instead of 2 hands
 - Requires setting up special documents to use existing assets in-game
 - Requires a decent computer that can run it
 - Less social, and harder to get a read on what people are thinking about as they play

Stage 3 / Prototyping Services:

• TheGameCrafter.com and PrintPlayGames.com

- Print-On-Demand (POD) services for board and card games
- Wide range of printed products and bits, along with self-publishing sales services
- Not cost-effective for large print runs
- o Quality isn't always great
 - Publishers understand they're looking at prototypes

DriveThruCards.com

- POD card service
- Cheap, flat price per card (with a bulk discount for 1000 cards or more in one order)
- Allows you to sell POD or print & play PDF copies of your card games
- All they do is cards: no rulebooks or anything beyond tuckboxes.





Making Cards in Adobe InDesign - Some Starting Tips

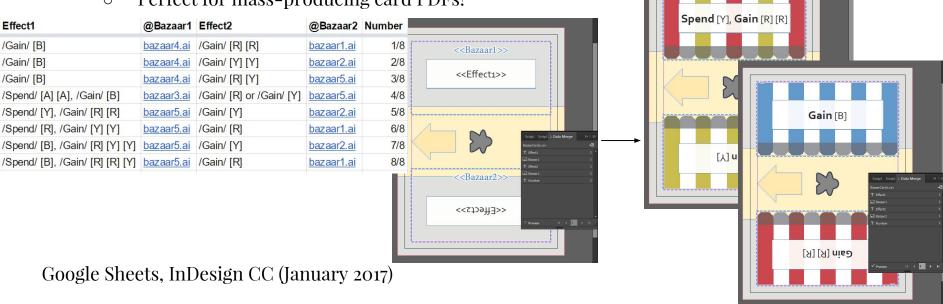
- Use this program *last* to lay out all the pieces you made in Photoshop and Illustrator for printing
 - Powerful text formatting and layout tools
 - Remember: You're placing and resizing the *frames* you're placing pre-made info *into*
- GREP paragraph styling is your text formatting friend. Learn its secrets.
 - \circ /Bolded Text/ \Rightarrow (/)(\w+?)(/) -> **Bolded Text**
- Very powerful "Find and Change" feature lets you replace text with formatted text, images, and icons in-line
 - Use unique strings to be sure you don't accidentally break other text
- Bow before your new god, Data Merge

Data Merge Primer

Merge images and text from a spreadsheet into multiple documents/pages

with the same layout

Perfect for mass-producing card PDFs!



Data Merge Tips to Save You Headaches

- Clearly name each field in your spreadsheet to prevent later confusion
- Use @ before names of image columns to denote you're placing files with them.

bazaar4.ai

- Frames can overlap, so you can even import backgrounds as part of the Data Merge. Change it once, update CSV, update all backgrounds easily!
- Maintain an organized folder structure for your images to import.
- If your images in a given frame aren't all the same size, **be sure to put a o% opacity, no-stroke rectangle over them** so they don't stretch to fit if you don't want them all to, and are positioned correctly in-frame.
- Use PSD/AI files when data merging—lossy files merge into lossy cards.
- **Google Sheets** exports the CSV file you need perfectly; Excel, YMMV.

More Resources For Your Brain

- **Daniel Solis** (@DanielSolis)
 - o Graphic Designer, Art Director, Game Designer
 - Belle of the Ball
 - Kodama: The Tree Spirits
 - The Princess Bride: As You Wish
 - Offers a slew of graphic design tutorial videos, many game-focused
 - Many are on GREP styles and advanced Data Merge techniques
 - Support his Patreon! www.patreon.com/danielsolis
- www.game-icons.net
 - Over 2600 free-to-use icons for any game in any genre
 - SVG vector files for easy tweaking
 - Useful to see how designers approach certain problems in iconography









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Find me at PAX East 2017 at the Gaming Paper booth to buy a copy of Pigment and to play Tattoo! The Game of Ink.

Find me at PAX East 2017 demoing

A.E.G.I.S. in the tabletop freeplay area!

We're going to Kickstarter soon.