DESIGNING INTERACTION

What We Can Learn From Modern Board Games

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AGENDA



Why talk about board games?



What is a modern board game?



A little bit about the study of games



Board games and design



The Settlers of Catan (Klaus Teuber, 1995)

This is the first German strategy board game to become a hit in the United States (and worldwide) and what got me into modern board gaming. It is still very popular. Learn more



My game room in my Connecticut home and part of my board game collection. I currently own about 1,000 games and run a small weekly board game group.

A Sampling of Modern Board Games

The slides that follow will give you an idea of the type of board games I study and play. They are good but not necessarily the best games out there.



Flash Point: Fire Rescue (Kevin Lanzing, 2011) Learn more



Concordia (Mac Gerdts, 2013) Learn more



Smash Monster Rampage! (Mike Swindall, 2010) Learn more



Battle Sheep (Francesco Rotta, 2010) Learn more



North Wind (Klaus Teuber, 2010) Learn more



Casa Grande (Günter Burkhardt, 2011) Learn more

Scrabble (Alfred Mosher Butts, 1948)

This slide is included only because it's my best Scrabble score ever. I pretty much quit playing the game after this because I'll never do better.



Why talk about board games?

- Growing popularity
- Cultural artifact
- System modeling
- Human interaction
- Visual design



Spiel Fair

Around 175,000 people from around the world attend this game convention, which takes place in October in Essen, Germany. Designers introduce their new games, which sell out almost instantly. Learn more



BoardgameGeek.con

This annual board game convention in Dallas draws more than 3,000 people every November. The convention features a library of thousands of old and new games, and a vendor hall showcasing new releases. The event sells out hours after registration opens. <u>Learn more</u> (Note: The link points to someone else's account of BGG.con 2016, not mine.)

THE MAGIC CIRCLE



The magic circle is a term coined by Dutch historian Johan Huizinga (1938) that describes the virtual area of play. Within the circle, players' behavior is shaped by agreed upon rules. The spoilsport, trifler, and cheater are states of being in relation to the magic circle. Learn more

DEFINING A GAME

A game is a rule-based formal system with

- a variable and quantifiable outcome
- where different outcomes are assigned different values
- the player exerts effort in order to influence the outcome
- the player feels attached to the outcome
- the consequences of the activity are optional and negotiable

Jesper Juul, game theorist

From "Half-Real: Video Games Between Real Rules and Fictional Worlds" (MIT Press, 2005) Learn more

What is a modern board game?

- Geared toward older players
- Beautiful visual designs
- More complex game play
- Balanced, strategy driven
- Often thematic

Also known as ...

- Strategy board games
- Eurogames
- Tabletop games

Area control

Players battle over control of territory on the board; dominance usually wins



Blood Rage (Eric M. Lang, 2015) Learn more

Route planning

Plan and optimize routes to connect points on a map, sometimes to transport goods



Ticket to Ride (Alan R. Moon, 2004) Learn more

Worker Placement

Send your workers (usually people-shaped pieces) to places on the board to accomplish tasks to fulfill game goals



Village (Inka & Marcus Brand, 2011) Learn more

Dexterity

Use physical skill to manipulate game components



Flick 'em Up! (Gaetan Beaujannot & Jean Yves Monpertius, 2011) Learn more

Party

A game for larger groups, often humorous and focused on social interaction



Codenames (Vlaada Chvátil, 2015) <u>Learn more</u>

How is a board game designed?

Board games can take years of design development. It usually starts with concept sketches. <u>Learn more</u>



Game prototypes

Prototypes may or may not have a theme applied. They allow the game to be play tested.



Play testing

Games must be extensively play tested to ensure the game is not "broken" (locks up or is too easily defeated). Designers enlist friends and family, and take prototypes to game conventions.



Visual design

The game publisher or independent designer hires an artist to illustrate the game board, cards, and other components. See some beautiful board game art <u>here</u>. Read about one young game artist, Shaz Yong, <u>here</u>.



Publishing and distribution

Very few people get rich creating board games. Even best-selling strategy board games have a niche audience. Smaller publishers and independent designers will be lucky to sell more than 1,000 copies. At the other end of the spectrum, the game that wins the <u>Spiel des Jahres</u> (German game of the year) could 500,000 copies or more.

Read tips about board game publishing from an insider <u>here</u>.



Many board games use symbols and icons to remind players of the properties of game components or what actions are available. These symbols only work if they have inherent visual meaning and they "speak" a language understood by the player.

Below are examples of symbolic systems that are not particularly useful without memorizing what the symbols mean.



On the other hand, using illustrations of recognizable objects can quickly convey an idea. This isn't always practical when you have very limited space (such as on a playing card).



Because many games are published for a worldwide audience, many publishers try to eliminate text on game components to create language-independent editions.

They have created their own visual language system that is fairly consistent across publishers. Dedicated hobby gamers will know what the player aids on the right and below are telling them.



Fresco (Wolfgang Panning, Marco Ruskowski, Marcel Süßelbeck, 2016) Learn more



The Oracle of Delphi (Stefan Feld, 2016) Learn more

This example, from the game Helvetia, shows "helpers" a player can enlist along the bottom of the board. Above each helper are icons that show the action the helper enables.

In the center of the board is a diagram that shows dependencies for the game's resources. For example, to create a steak, you need straw to feed a cow first.



Helvetia (Matthias Cramer, 2011) Learn more

Some board game conventions are costs (in resource cubes) in an upper corner, and point values displayed in a gold shapes (often coins).

However, sometimes icons and symbols are not enough to convey the complexity of the action, as seen here in a series of cards from Grand Austria Hotel. The rulebook contains an extensive explanation of the icons.



Grand Austria Hotel (Matthias Cramer, 2015) Learn more



Two cards from the Greek mythology-themed game Elysium. Notice the many symbols representing the card family, power, and various attributes.

A coin icon is used to represent money, and the laurel wreath represents victory points (the points collected to win the game).

In this case, the designers felt the icons and symbols were insufficient in themselves, so text was added at the bottom of each card.





Elysium (Matthew Dunstan & Brett J. Gilbert, 2015) Learn more

What makes good functional design in a board game?

- Consistent system
- Use of conventions
- *Recognizable symbols/icons*
- Frequent appearance and placement
- Attractive and memorable graphics
- References, if needed (legends, quick guides)

A word about printed game rules

Game publishers are experts at making complex rules understandable in a minimal number of pages.

They use a variety of techniques to summarize, gradually introduce, and visually organize rules.

One of the best practices is to briefly summarize sections in the margins to re-familiarize players who have a read the rules in the past.

Other publishers color code sections, use tables and charts, and follow conventions such as always italicizing examples of play.

> Puerto Rico (Andreas Seyfarth, 2002) Learn more

- When a player has filled all 12 island spaces his player board, he may not take any further tiles in the settler phases for the rest of the game.
- When there are no more quarry tiles in the quarry tile stack, the settler may not use his privilege and the owner of the construction hut may not use that special function.

The mayor (mayor phase -> arrival of new colonists)

The tiles (plantation, quarry, or building) have 1 to 3 circles. A player may place one colonist on each circle on the tiles on his player board. If there is at least one colonist on a tile, it is considered occupied. Only occupied tiles may use their functions: unoccupied tiles never function!

The player who chooses this role may first take one colonist from the colonist supply (nov from the colonist ship!) as his privilege. Next, the players take the colonists from the colonist ship one at a time, starting with the mayor. The players continue to take one colonist at a time, in clockwise order, until none remain on the colonist

A player may place his new colonist(s), *together* with all the colonists he acquired from earlier rounds, on any empty circles on the tiles on his player board. Thus, a player may move a colonist placed on a circle or on his windrose in an earlier round. If a player cannot place all his colonists, he may "store" them on his windrose on his player board. The colonists remain there until a later mayor phase when they may be placed on empty circles on the player's tiles.

As his last duty, the mayor puts new colonists on the colonist ship to be used in the next mayor phase. For each empty circle on the *butlding* on the player boards of all players (empty circles on plantations and quarries do not count!), the mayor takes one colonist from the colonist supply and places it on the colonist ship. However, as a minimum, the mayor should always place at least as many colonists on the ship as there are players in the game.

Notes:

- Usually, all players placehmove their colonists at the same time. If, however, the players feel that their placement decisions may depend on other's placements, the players should place their colonists is the following order: first, the mayor and, then,
- the others in clockwise order from the mayor. If a mayor forgets (players may remind him) to place new colonists on the colonist ship, players later place the minimum (number of players) on the colonist ship.
- When the colonist supply runs out, the mayor may not use his privilege and, of course, he does not refill the colonist ship.
- No player may choose to place colonists on his windrose if he has empty circles available on his player board. All empty circles must be filled, if possible. Colonists can only be placed on the circles during the mayor phase.

The builder (builder phase -> build buildings)

The player who chooses this role, can immediately build one building for one doubloon less than the normal cost as his privilege. He pays the money to the bank, takes the building from the supply, and places it on any empty space in the city on his player board. When placing a large building, the player needs two adjacent empty spaces. Then, the other players, in clockwise order from the builder, may, in the same way, each builds one building (at normal cost).

Note: No player may build more than one building per round. For further information on the individual buildings, please see page 8 of these rules.

Quarry

Each occupied quarry that a player owns may reduce the player's cost for building a building by *1 doubloon*. The limit for such reductions is shown on the game board: players building buildings in the first column can reduce their cost by at most 1 doubloon (1 occupted quarry), in the second column by 2 doubloons (2 occupted quarries), in the third column by 3 doubloons (3 occupted quarries), and in the fourth column by 4 doubloons (4 occupied quarries). Pessinessiessiessiessie



Each player may place all his colonists on new empty circles.

At the end of the mayor phase: place new colonists on the colonist ship

> Action: each player may build one building Privilege:

builder pay 1

The building costs may be reduced with occupied quarries.









A word about printed game rules

This page from the rulebook for the game Alhambra shows how publisher Queen Games uses color-coding to organizer their rulebooks.

Queen Games produces some of the most visually beautiful games on the market and excellent best rulebooks.

Alhambra (Dirk Henn, 2003) Learn more

How to play

Play proceeds in a clockwise direction, beginning with the starting player.

The player whose turn it is must do one of three things:

Take some money	
Buy and position a	building tile
Redesign their own	Alhambra

After a player's turn is over any money cards and building files which have been removed are replaced with new ones so that there are always 4 of each.

Taking money

A player can take any one of the money cards from those lying face-up, or several money cards if they do not add up to more than 5 (the currency does not matter).



Example: you could take both the cards on the left or one of the other two.

Buying and positioning building tiles

Buying the tiles

A player can buy a building tile from the building market. He must pay at least the price shown on the tile and use the currency displayed next to the tile in the building market. But take care - no change is given!

The money used to pay for the tile is placed on a discard pile next to the building market.

If you can pay the exact amount it is still your turn and you can decide once more which of the three options you would like to take.

While it is your turn no new tiles are placed on the building market. It is only at the end of your turn that the empty squares are refilled with new tiles.

It is therefore possible to carry out a maximum of 5 actions during your turn (paying the exact amount four times and then either taking money or redesigning your Albambra).

Positioning the tiles

You can either: add your new building tile to your Alhambra or place it on your reserve board. You can have as many building tiles on your reserve board as you want.



Example: You want a garden for your Albambra. The garden on offer costs 10. You

have two money cards of this currency in your hand and decide to bay the gorden. However, as you cannot pay exactly 10 of the blue currency (but only 11), your go is then over; you do not receive any charge.



A few resources

- <u>Boardgamegeek.com</u> online database with a wealth of information; free to use and create an account
- <u>Board Game Gift Guide</u> A shopping guide from the 2016 holiday season; good place to start for newbies
- Where to buy (trusted online stores):

<u>Miniature Market</u> <u>Cool Stuff Inc.</u> <u>Cardhaus Games</u> <u>Amazon</u>

Online prices are usually better, but you can also find many modern strategy board games at Barnes & Noble, Target, Toys R Us, and local game stores.

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