Week 5 THE LAYERED TETRAD

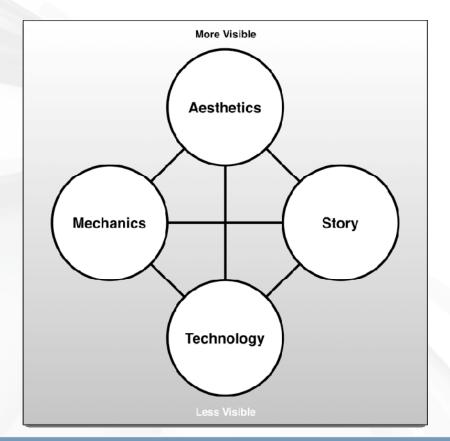


Topics

- The Layered Tetrad
- The Inscribed Layer
- The Dynamic Layer
- The Cultural Layer



- Schell arranges the elements in a tetrad
 - Four elements also represent four groups in a game studio
 - Arranged from most to least visible



Mechanics

- Rules for interaction between the player and the game
- Contain
 - Rules
 - Objectives
 - Other Formal elements
- Different from mechanics in MDA
 - Schell differentiates between mechanics and technology

Aesthetics

- Describe how the game is perceived by the senses:
 - Vision
 - Sound
- Many different aspects of aesthetics
 - Soundtrack
 - 2D graphics and animation
 - Packaging and cover art
- Different from aesthetics in MDA
 - MDA aesthetics describes the emotional response to the game, Schell's aesthetics describe the five senses

Technology

- The underlying technology that makes the game work
- Digital technologies
 - Computer and console hardware
 - Software and programming
 - Rendering software
- Paper technologies
 - Dice and other randomizers
 - Statistics tables

Story

- Everything included in Fullerton's Dramatic Elements
- Differs from Fullerton's Dramatic Elements because it is broader than what she terms story.
 - Schell's story includes premise and character as well

THE LAYERED TETRAD

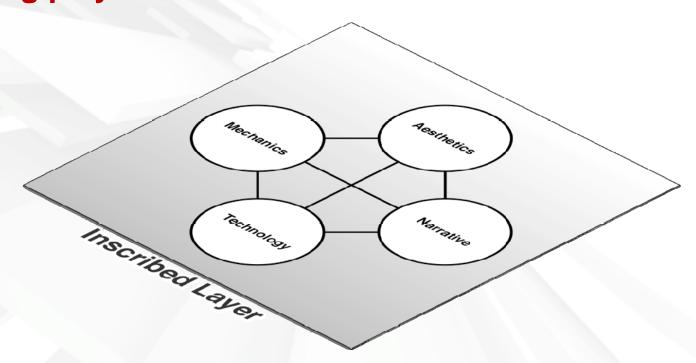
The Layered Tetrad

- Expands upon those that came before it
- Considers the cultural significance and impact of games **
- Does not define what a game is
 - Instead helps you understand and analyze:
 - The elements that are needed to make a game
 - The dynamic behavior of those elements during play.

The Layered Tetrad

- Presented in a tetrad (based on Schell's)
- Presented in three layers
 - Inscribed: The game as created and encoded by the developers
 - Dynamic: The game's behavior during play
 - Cultural: The game's relationship to society **

- Game as created and encoded by developers
- Similar to Schell's Elemental Tetrad
- Limited to elements that exist when the game is not being played



Mechanics

- Systems that define how the player and game will interact
- Includes: Player interaction pattern, Objective, Rules, Resources, Boundaries

Aesthetics

How the game looks, sounds.

Technology

Digital technology that enable gameplay

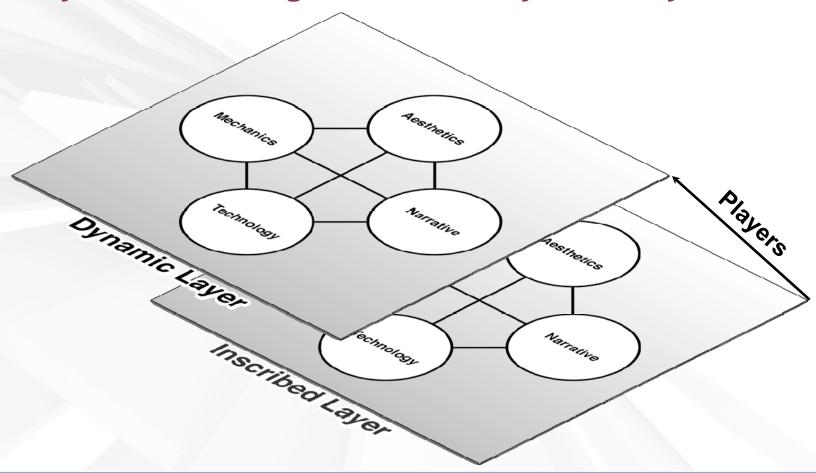
Narrative

Authored premise, characters, and plot.



The Dynamic Layer

- The game as it is being played
- Players move the game into the dynamic layer



The Dynamic Layer

Mechanics

- Players' interactions with inscribed mechanics
- Includes: Procedures, Strategies, Emergent game behavior, Outcome

Aesthetics

- Aesthetics that are generated during play
- Play environment

Technology

Execution of inscribed technology and code.

Narrative

Narrative created as a part or result of gameplay.



THE INSCRIBED LAYER



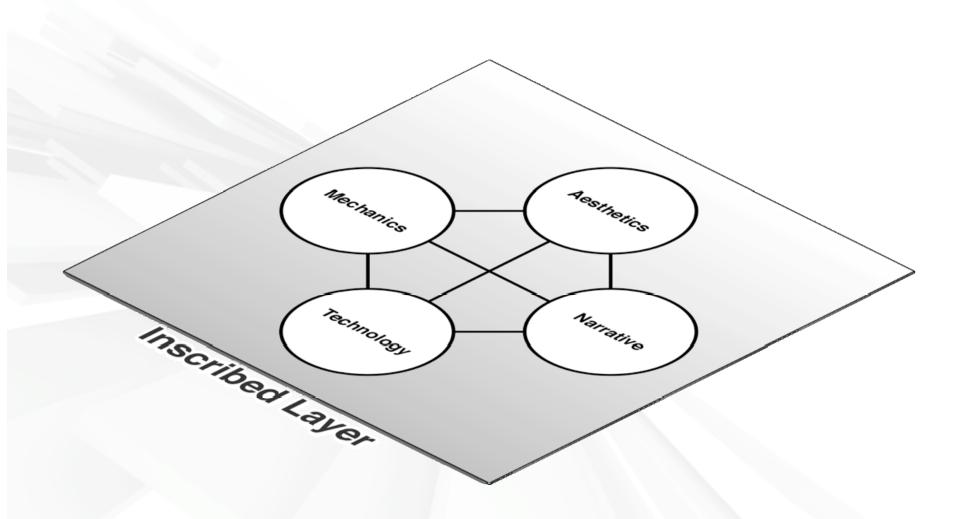
Topics

- The Inscribed Layer
- Inscribed Mechanics
- Inscribed Aesthetics
- Inscribed Narrative
 - Traditional Dramatics
- Inscribed Technology



- All elements that are directly designed and encoded by game developers
- Inscribed elements are encoded experiences
 - The designers think of an experience
 - They encode this experience into the Inscribed Layer
 - Players decode the experience into the Dynamic Layer





Mechanics

- Systems that define how the player and game will interact
- Includes: Player interaction pattern, Objective, Rules, Resources, Boundaries

Aesthetics

How the game looks, sounds, smells, tastes, and feels

Technology

Paper and digital technology that enable gameplay

Narrative

Authored premise, characters, and plot



Inscribed Mechanics

- Seven Inscribed Mechanics
- Objectives What are the player's goals?
- Player Relationships How do players compete & collaborate?
- Rules What can and can't players do to achieve their goals?
- Boundaries Where are the edges of the game?
- Resources What holds value in the game?
- Spaces Where does the game take place?
- Tables What is the statistical shape of the game?



Inscribed Mechanics: Objectives

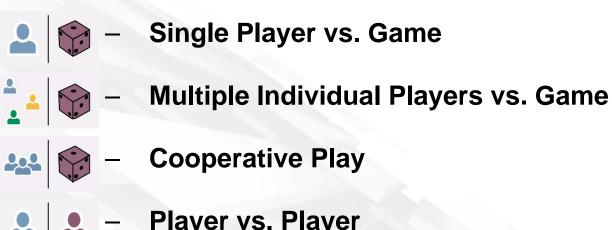
- More than just the final objective of the game
- Players are constantly weighing several possible objectives
- Objectives are categorized by:
 - Immediacy
 - Short-, Mid-, and Long-term Goals





Inscribed Mechanics: Player Relationships

Fullerton lists seven player interaction patterns









Team Competition

Inscribed Mechanics: Rules

- Rules limit players' actions
- In digital games, the programming code can be seen as the writing of the rules of the game
- Rules can be explicit or implicit
 - Explicit: Roll the die and advance the number of spaces shown
 - Implicit: Don't lie about the number shown on the die

Inscribed Mechanics: Boundaries

- Define the edges of the space and time in which the game takes place
- Within the boundaries, game resources have value, and the rules must be followed
- Boundaries are the edge of the "Magic Circle"



Inscribed Mechanics: Resources

- Things that have value in the game
- Two types:
 - Assets: Actual objects in the game
 - Houses, hotels, and property in Monopoly
 - Attributes: Numbers representing value in the game
 - Health
 - Amount of air left when swimming under water, etc

Inscribed Mechanics: Spaces

- Navigable spaces in the game
 - Both the board in board games and levels in digital games
- Things to consider when designing spaces:
 - The purpose of the space
 - Why does it exist?
 - Why is it important to the player?
 - Flow of movement
 - Can the player move through the space easily?
 - Landmarks
 - Does the player have landmarks to help her orient herself?
 - Experiences
 - Does the space offer the player interesting experiences?
 - Objectives
 - Does the space contain short-, medium-, and long-term objectives?



Inscribed Mechanics: Tables

- Tables are grids of game information
 - Used extensively for game balance
- Tables have several purposes, including:
 - Probability
 - Tables can determine probability in very specific circumstances
 - A table could show the relative offensive and defensive strength of two armies based on the territory that they inhabit (e.g., Advanced Wars)
 - Progression
 - Tables often hold information about how players abilities increase and change as their player level increases.

Inscribed Aesthetics

- Aesthetics are the elements perceived by the player's senses
- Inscribed Aesthetics are those created and inscribed by the developers of the game
- These include
 - Visual Art
 - Sound and Music
 - tangible Elements



Inscribed Aesthetics: Vision

- Game developers put a tremendous amount of effort into their visual aesthetic
- Not just character models and texturing
- Also includes
 - Box art
 - Advertising
 - Font choice
 - Game website
- All of these must have a consistent visual aesthetic



Inscribed Aesthetics: Hearing

- Various platforms have different audio capabilities
 - Console and PC audio is very, very high quality
 - Mobile game audio is often never heard
 - Background noise vs. Small speaker size
 - Owners often mute mobile devices



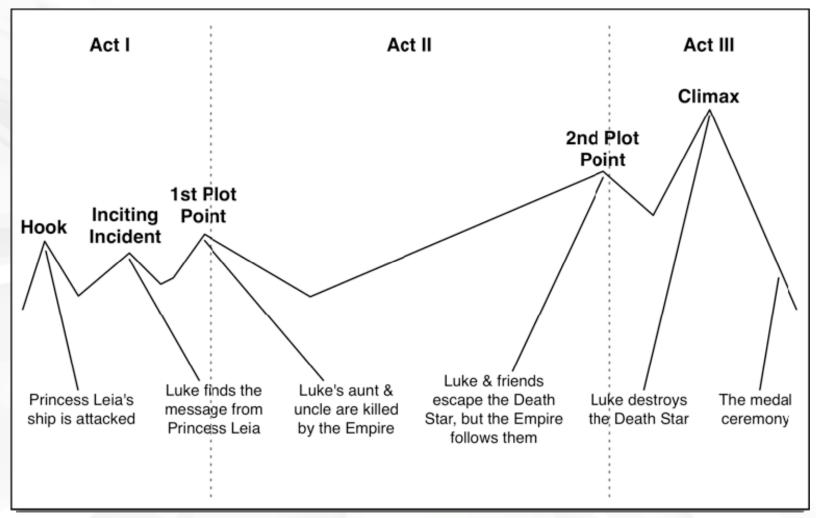
Inscribed Narrative

- The dramatic elements of a game that have been designed and inscribed by the game developers
- Four Components
 - Premise: The world in which the story takes place
 - The story's narrative basis
 - Example: "A long time ago in a galaxy far, far away"
 - Setting: The details of the space in which the story takes place
 - Example: A moisture farm on the desert planet, Tatooine.
 - Character: The people featured in the story
 - Plot: The sequence of events that take place in the story
 - Character + Objective + Obstacles = Drama
- Based in traditional dramatics



Traditional Dramatics

Syd Field's Three-Act Structure



Inscribed Narrative

Purposes for Inscribed Dramatics

Evoking Emotion

 Writers have learned over centuries how to evoke emotion through narrative

Motivation and Justification

 Game narrative can give the player a goal and justify her actions in the game

Reward

Players are often rewarded by a cutscene at the end of a level



Inscribed Technology

- The technology designed and inscribed by developers to enable play of the game
- Paper inscribed technology includes:
 - Randomization
 - Dice, spinners, and cards
 - State Tracking
 - Score tracking, tables.
 - Progression
 - The technological design of elements like leveling tables
- Digital inscribed technology is mostly programming code.

