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Players: Game Researcher's Perspective

D.

- Juul [Juul 2010; in (1)]:
 - O hardcore player
 - O casual player
- Salen and Zimmerman [Salen and Zimmerman, 2004 in (1)]: different lusory attitudes:
 - O Standard Player: follows rules
 - O Dedicated Player: follows rules but unusual strategies
 - O Unsportsmanlike Player: follows rules but violates spirit of lusory attitude
 - O Cheating Player: violates rules to win
 - O Spoil-Sport Player: violates rules, doesn't care at all

Players of Digital Games

Players: Game Designer's Perspective

1/2

- game researchers: ex post / empirical perspective ↔
 game designers: ex-ante perspective
- Jesse Schell [Schell 2010; in (1)]: important: age, gender:
 - o Infant\Toddlers(0-3),
 - ≥ O Preschooler (4-6),
 - O Kids (7-9),
 - O Preteen or "Tween" (10-13),
 - o Teen (13-18),
 - O Young Adult(18-24),
 - O Twenties and Thirties (25-35),
 - O Thirties and Fourties (35-50),
 - Fifties and Up (50+).

distinguished by mental development

distinguished by family status

Prayers: Game Designer's Perspective

Dir.

- Chapman [Chapman et al, 2008 in (1)]:
 - O ,Personas':
- Radoff [Radoff 2011; in (1)]:
 - ,Player Personas': fictional representants of equivalence classes of players in terms of personality, attitudes, attributes



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Components of Digital Games



D.

studies: Entertainment Software Association [ESA, 2011; in (1)], [Dobson, 2006 in (1)]:

- O 72 % of US households play digital games
- O av age: 37
- O 42 % female; females: 71 % of casual players
- O preferences:
 - casual games (47 %),
 - action, sports, strategy, role-playing (21 %)
 - massive multi-player games (11 %)
- O > 50 % of players play on mobile devices
- O 65 % play together with other gamers in person
- o adult gamers have spent 12 years of playing video games

components: Game Researcher's Perspective

D.

- Salen and Zimmerman [Salen and Zimmerman, 2004 in (1)]:
 - o general characteristics of game rules:
 - Rules limit player actions
 - Rules are explicit and unambiguous
 - Rules are shared by all players
 - Rules are fixed
 - Rules are binding
 - Rules are repeatable
 - o three types of rules:
 - Constituative Rules: core logic; in code; handle internal events
 - Operational Rules: external events (e.g. user i/o: audio, video)
 - Implicit Rules: also depend on external context (e.g. platform)

components: Game Researcher's Perspective

N.

Juul [Juul, 2005 in (1)]: rules: chain of dependencies:

- o "rules specify limitations and affordances"
- O rules map: player's actions A → game states S: state machine
- o state machine: graph or tree: ,game tree', ,game graph'
- O utility function on states → player challenges → skills
 - \rightarrow enjoyable experience

components: Game Researcher's Perspective

R

Järvinen [Järvinen, 2007 in (1)]: nine game elements:

- Systemic elements:
 - Components: resources for play
 - Environment: space for play
- Compound elements:
 - ruleset (including utility function, goal-set)
 - game mechanics: player's action patterns toward goals
 - theme: subject matter of game
 - interface: e.g. UI
 - information: players need to know, coupled with game states
- O Behavioral elements:
 - players
 - ,outside' contexts: e.g. spatiotemporal environment of game-playing

components: Game Researcher's Perspective

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- Hunicke [Hunicke et al, 2004 in (1)]: games: "systems that build behavior via interaction"
- [Hunicke et al, 2004 in (1)]: MDA framework (mechanics, dynamics, aesthetics):
 - O Mechanics "are the various actions, behaviors and control mechanisms afforded to the player within a game context. Together with the game's content (levels, assets, and so on) the mechanics support overall gameplay dynamics."
 - Dynamics "run-time behavior of the mechanics acting on player inputs and each others' outputs over time."
 - O Aesthetics facilitate "the desirable emotional responses evoked in the play, when she [the player] interacts with the game system."

components: Game Researcher's Perspective

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components: Game Researcher's Perspective

D.

- Järvinen [Järvinen, 2008 in (1)]:
 - O game mechanics: "A game mechanic makes a particular set of rules available to the player in the form of prescribed casual relations between game elements and their consequence to particular game state(s)"
- Sicart [Sicard, 2008; in (1)]:
 - game mechanics: "methods invoked by agents, designed for interaction with the game world"

components: Game Researcher's Perspective

Järvinen [Järvinen, 2008 in (1)]:

- o social interaction of players:
 - inside game: vsocial context accessible
 - outside ("off-")game: social context inaccessible
- o game elements: ownership attribute:
 - Element-of-self
 - Element-of-other
 - Element-of-system

components: Game Researcher's Perspective

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- Sicart [Sicard, 2008; in (1)]: game mechanics: types:
 - O Core Mechanics: "the game mechanics (repeatedly) used by agents to achieve a systemically reward end-game state."
 - Primary Mechanics: "core mechanics that can be directly applied to solving challenges that lead to the desired end state."
 - Secondary Mechanics: "core mechanics that ease the player's interaction with the game towards the end state."
 - Compound Mechanics: "set of related game mechanics that function together within one delimited agent interaction mode."
 - Context Mechanics: "mechanics triggered depending on the context of the player presence in the game world." (→ different notion of context!)

components: Game Researcher's Perspective

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Dormans [Dormans, 2012; in (1)]:

- O game play: "emergent property of the game as defined by its rules"
- O game components:
 - game mechanics:
 - "a set of [specific] rules governing the behavior of a single game element"
 - umbrella term covering
 - » internal economy: "is constituted by the production, flow and consumption of game resources", e.g. points, items
 - » game physics: "implementation of the physical laws that govern motion and force within the game"
 - core mechanics: "the essential play activity players perform again and again in a game" (originally by [Salen and Zimmerman, 2004; in (1)])

components: Game Researcher's Perspective

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- Dormans [Dormans, 2012; in (1)]:
 - O game components (contd.):
 - level: "particular spatial and/or logistical structure [...] dictates what challenges players encounter. Typically, a level contains a set of positioned game elements and/or scripts to control special events and players' progress through the game"
- Dormans: Mechinations framework (formal language for game mechanics, very very roughly comparable to UML)

Components: Game Designer's Perspective

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- Schell [Schell, 2010; in (1)]: "elemental tetrad"
 - O Mechanics,
 - O Story,
 - O Aesthetics,
 - O Technology
- [Schell, 2010; in (1)]: Mechanics:
 - O Space: "places [...] in a game, and how these places are related to one another"
 - O Objects (tokens, 'props', etc.), attributes, and states
 - Player's Actions: operative actions, resultant (more abstract) actions (strategies
 - O Rules
 - O Skill: physical, mental, and social skills; difference btw. real skills and virtual skills that only exist in the game.
 - O Chance

Components: Game Designer's Perspective

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Parlett [Parlett, 2005; in (1)] in [Schell, 2010; in (1)]: typology of rules (cp. also Salen and Zimmermann (S&Z)):

- Operational Rules: explicit rules of the game; "a set of operational procedures you apply to the gaming equipment in order to play the game"; more descriptions than prescriptions
- O Foundational Rules: implicit rules; describe the underlying formal (mathematical) structure; synonymous with S&Z's constituative rules.
- O Behavioural Rules: higher order implicit rules; a subset of S&Z's implicit rules; example 'good sportsmanship'.
- O Written Rules: often absent; rather taught via e.g. an interactive tutorial.

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components: Game Designer's Perspective

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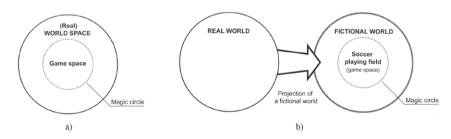
Parlett [Parlett, 2005; in (1)] in [Schell, 2010; in (1)]: typology of rules (cp. also Salen and Zimmermann (S&Z)): (ctd.)

- O Laws: for serious play: "explicit rules of behavior" only for "serious, competitive settings"; include e.g. sanctions
- O Official rules: for serious play; == laws + written rules
- O Advisory rules: "rules of strategy"; opt. shared btw. players (e.g. in MMOG)
- Feedback i.e. alterations to the operational rules by individual players;
 "house rules" (e.g. w.r.t. difficulty levels)

components: Game Designer's Perspective

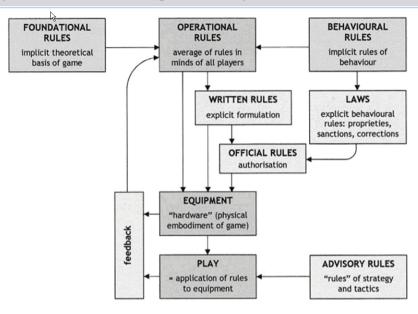
D.

- Important component: game spaces (e.g. Pacman maze, stages, levels, places in WOW, Second Life etc.) (== "virtual worlds", "game worlds")
- blurring of boundaries (→ magic circle): real ← imaginary world: negotiated by players, determined by context → adds social dimension



Juul's Magic Circle (a) in the Real World and (b) in Fictional Worlds. Source: [Juul, 2005; in $\{1\}$]

Components: Game Designer's Perspective



Parlett's Typology of Rules. Source: [Parlett, 2005; in (1)]

components: Game Researcher's Perspective

D.

- Klastrup [Klastrup, 2003; in (1)]:
 - O virtual worlds: two dimensions:
 - Genre: "gaming worlds, social worlds, educational worlds, commercial (or chat and entertainment) worlds, and art worlds.", not strictly separated
 - Classification: axes: size (small, medium, large), common sense (e.g. setting, interaction possibilities, degree of realism), or other general evaluation criteria
 - O virtual worlds: functions:
 - Interpretative framework: → social meaning, meaning for game mechanics
 - Representation: props → atmosphere, paidea.
 - Simulation: → ludus; → action sequences in game space
 - Lived story in a social space: covers the "experience of time, history and community developed within the world"

components: Game Designer's Perspective

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• Schell [Schell, 2010; in (1)]: three attributes of game spaces / virtual worlds / game worlds:

- O discrete or continuous
- o certain number of dimensions, incl. 0 (e.g. guessing game)
- O boundaries
- [Schell, 2010; in (1)]: Transmedia worlds: fantasy worlds that can be entered through many different media



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Meta-Types and Types of Digital Games

ivieta-Types of Digital Games

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- Meta-types of games:
 - O Simulation
 - O Social games
 - O On-line games
 - O Mobile games
 - Location-based games
- these are
 - O overlapping
 - O probably not complete



ivieta-Types of Digital Games

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Simulation

- O generally: "to simulate is to model a (source) system" (possibly non-real) "through a different system which maintains to somebody some of the behaviors of the original system" [Frasca, 2003b; in (1)].
- O closely related to game mechanics, game physics

Social Games

- O requires social interation (cooperative vs. competitive)
- O social interation: inside / outside of game
- o generates / uses social context

ivieta-Types of Digital Games

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Online Games

- o require connectivity
- o e.g. Web-based games

Mobile Games

- o mobility → more, more interesting, more real-world contexts
- games that incorporate context, measured via sensors (e.g. in a smartphone) in a mobile scenario
- O forms of context (overlapping): spatio-temporal, social, physical, medical, personal etc.
- O games making use of spatial context: location-based games
- O important: distinguish:
 truly mobile == use mobile context ≠≠ only accessed via mobile UI

Types of Digital Games



- Types of games:
 - O Hardcore
 - O Casual
 - O Pervasive
 - O Serious
- these are
 - O not totally exclusive
 - O probably not complete



ivieta-Types of Digital Games

- O Simulation
- O Social games
- O On-line games
- O Mobile games
 - Location-based games
- these are
 - O overlapping
 - O probably not complete



Types of Digital Games

Hardcore Games

- O meta types: simulation (primarily), on-line, social
- o intensive player immersion
- O sub-types:
 - ego-shooters,
 - MMOGs, MMORPGs, MUDs... (see [Klastrup, 2003, p. 57-91; in (1)])
 - vintage classic games
 - **—** ..
- O often:
 - realistic physics,
 - high end (often 3D) graphics,
 - detailed game worlds
 -

Types of Digital Games

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Casual Games

- O Juul [Juul, 2010; in (1)]: characteristics:
 - Instant play, easy to learn
 - Quick play, do not require much time to play to get pleasure
 - Common play, address a vast majority of player types
- o meta-types: online (primary), social (primary), mobile
- O constant development e.g. via user feedback possible and good practice

Types of Digital Games

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Casual Games: varieties:

- O browser games
 - Web applications
 - example: games by Zynga
- O social network games:
 - played on social networking platforms
 - example: Farmville
- O downloadable casual games:
 - specific distribution channel, often assoc. with brands
 - example: Moorhuhn
- O mimetic games:
 - "exergames", take game-play out of virtual game space to the player's 'real world' space, mostly via 'physical' UIs
 - examples: Wii Sports, Guitar Hero, Kinect games

Types of Digital Games

Casual Games

- O Juul [Juul, 2010; in (1)]: five design principles:
 - Fiction: almost all: "fictions with positive valence".
 - Usability: are easy to use, friendly interfaces, "presuppose little knowledge of game conventions"
 - Interruptibility: allow players to "play in short bursts"
 - Difficulty and punishment: "often become very difficult during the playing of a game" but typically only have "lenient punishments for failing".
 - Juiciness: "excessive positive feedback for every successful action"

Types of Digital Games

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Pervasive Games

- [Montola et al, 2009; in (1)]: "game that has one or more salient features that expand the contractual magic circle of play spatially, temporally, or socially
- O [Montola et al., 2009, in (1)]. other terms:
- "adaptronic games, alternate reality games, ambient games, appropriative games, augmented reality games, big games, brink games, context aware games, crossmedia games, geogames, hybrid games, immersive games, invasive games, location-based games, locative games, massive games, mixed reality games, mobile games, pervasive games, reality games, supergames, total games, transreality games etc.





Pervasive Games

- [Kampmann Walther, 2005; in (1)]: "[...] augmented and/or embedded game worlds [...] on the threshold between tangible and immaterial space"
- O [Kampmann Walther, 2005; in (1)]: "may further include adaptronics, wearable, mobile, or embedded software/hardware in order to facilitate a 'natural' environment for gameplay that ensures the explicitness of computational procedures in a post-screen setting
- O related: pervasive + ubiquitous computing
- o meta-types: mobile + location-based (primary), social (secondary)

Types of Digital Games



Serious Games

- O games with ,useful' side effects: [Susi et al., 2007; in (1)]:
 - education: e-learning, edutainment, game-based learning, digital game-based learning (related, overlapping)
 - training: : e.g. military or financial simulations
 - information: political games, corporate games, and healthcare games (inform, create awareness)
- O "Games with a Purpose" (GWAP):
 - more strictly oriented towards specific goal
 - closely related but not necessarily with game orientation: "humanbased computation", "crowdsourcing"
 - examples: Artigo (soft ontology / folksonomy generation), Captchasolving
- o meta types: social, simulation

Types of Digital Games

Pervasive Games: sub-types: [Magerkurth et al, 2005; in (1)]:

- O Smart tovs:
 - e.g. Ravensburger tiptoi
- O Affective gaming:

integrate a player's emotional state, measured via sensors

- O Augmented tabletop games:
 - e.g. via tangible pawns
- O Location-aware games:
 - e.g. Geocaching
- O Augmented reality games:

e.g. via head-mounted displays, projected images on real-world surfaces, or hand-held devices.

Types of Digital Games

	Hardcore	Casual	Pervasive	Serious
Simulation	•	0	0	•
On-line	•	•	•	•
Social	•	•	•	•
Mobile	0		•	0
Location-based	0	0	•	0