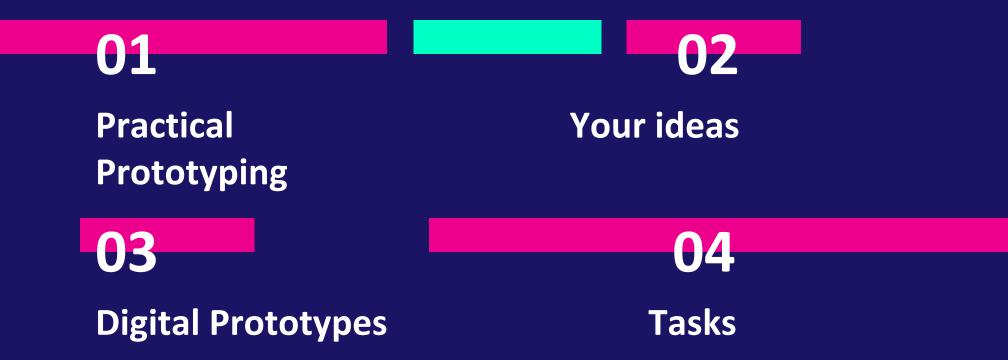


Lecture 5

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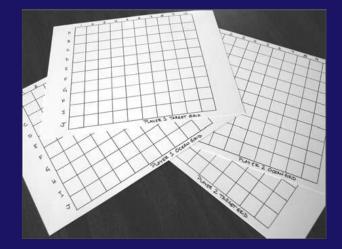


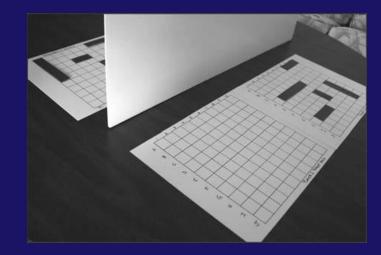


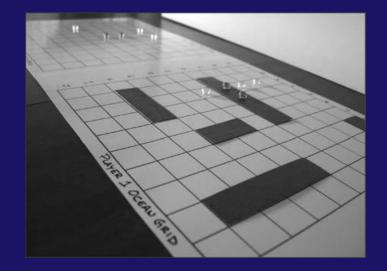
Practical Prototyping

Battleships Prototype









Questions

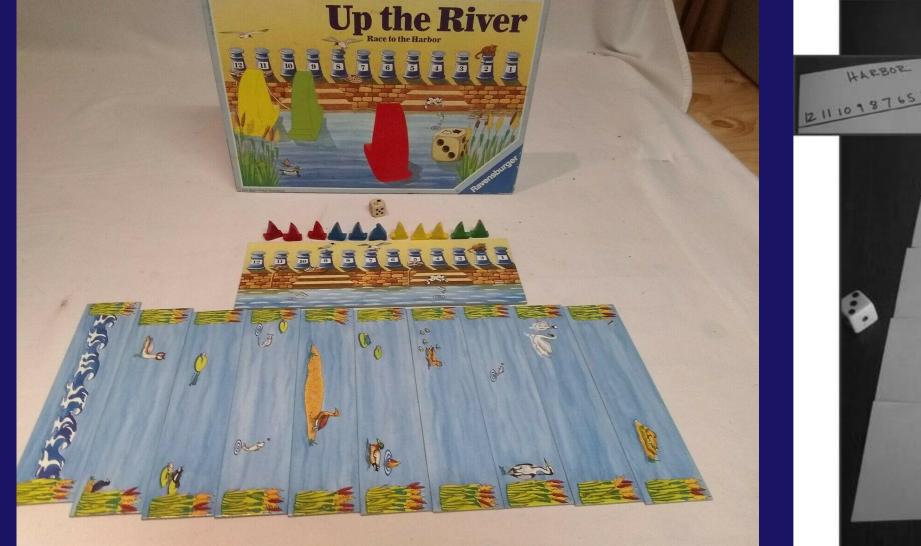
Does it accurately represent the game mechanics?

Although the artwork is crude and the rules are rough, do they provide enough of an experience for someone to grasp the game and give feedback?

Exercise

Change 3 things in rules What changes in prototypes will be needed?

Up the River





Up the River rules

Up to 4 players 1 d6 12 bars – the River 1 Sandbar 1 High Tide The youngest goes first Roll a dice -> Move Sandbar stops movement High Tide adds 3 extra steps 1) In the end of the turn boats on the last bar are lost 2) 6 is good or bad wind

Formal System

How number of bars and dice are connected?

How number of boats is connected to starting position?

Is starting position of the Sandbar/High Tide important?

What skills are important to play the game?

Why the youngest goes first?

What can we enhance? Exercise

Negotiations

Tactics

Teams with different roles

Shooter Prototype



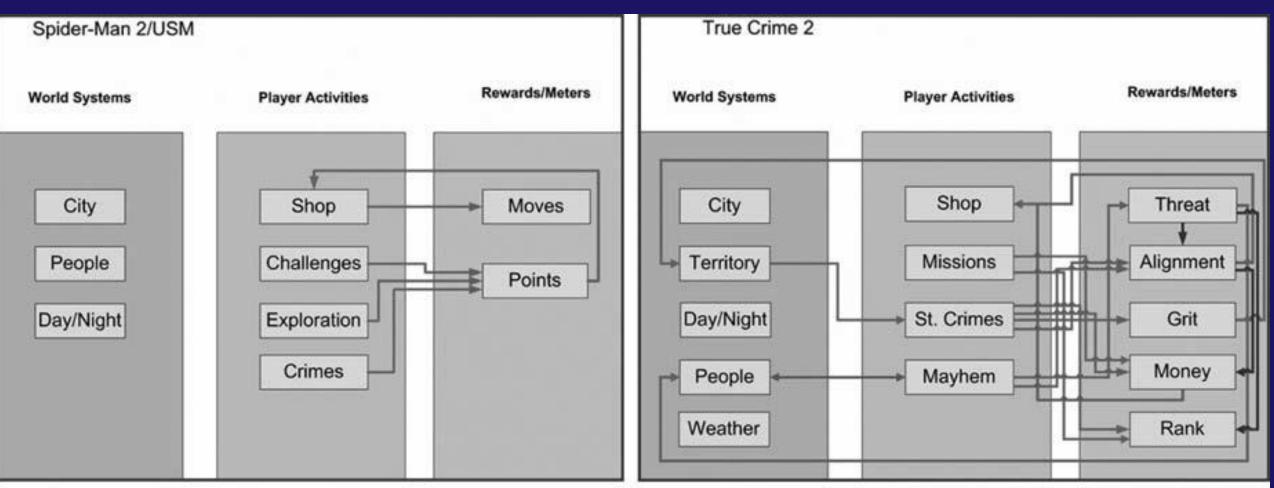


Your Ideas

Working on your idea

Visualizing Core Gameplay Building the Physical Prototype Refining Your Visualization

Visualizing Core Gameplay



Diagrams courtesy of Activision Central Design (Jeff Chen and Carl Schnurr)

Or write it down

• WarCraft : Players build and move units on a map in real time with the intent of opposing units in combat and destroying them.

• *Monopoly:* Players buy and improve properties with the goal of charging rent to other players who land on them in the course of play.

• *Diablo:* Players battle monsters, seek treasure, and explore dungeons in an attempt to amass wealth and become more powerful.

• Super Mario Bros.: A player controls Mario (or Luigi), making him walk, run, and jump, while avoiding traps, overcoming obstacles, and gathering treasure.

Building the Physical Prototype

Foundation (world, basic rules)
Structure (framework)
Formal details (smaller rule)
Refinement

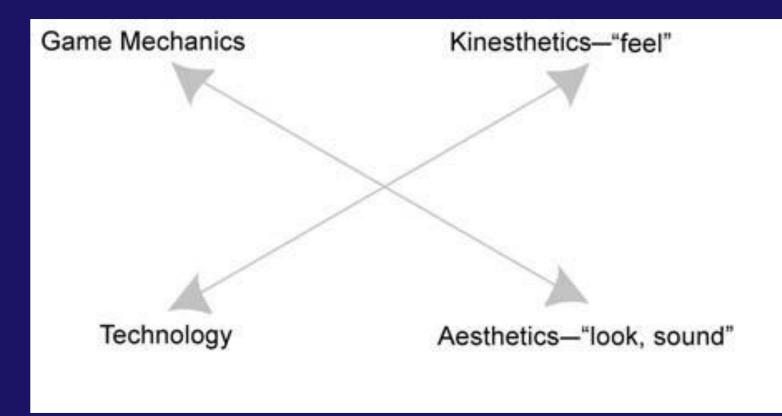




Digital Prototypes

What can we prototype?

Game Mechanics Aesthetics Kinesthetics Technology



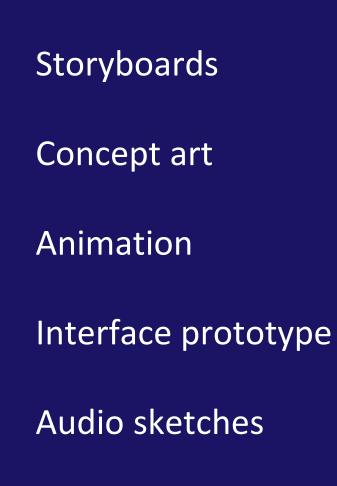
Game Mechanics

No need for stand-alone app (Spreadsheets, Visual Editing, Mods)

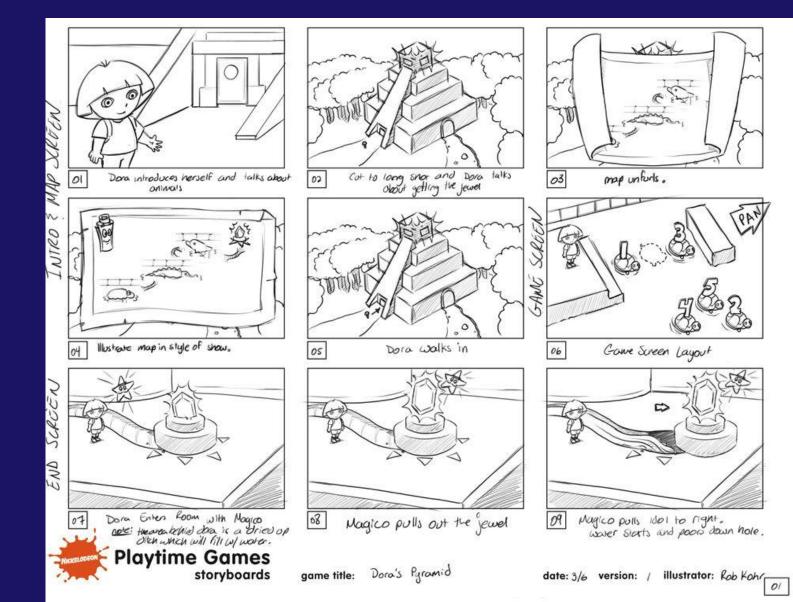
Quick, Parametrized Example

total_output = 15 * 2

total_output = production_rate * num_factories



Aesthetics



Kinesthetics

Control scheme

Actual device

Probably, actual tech

Input->Response









Controls





Control Tables

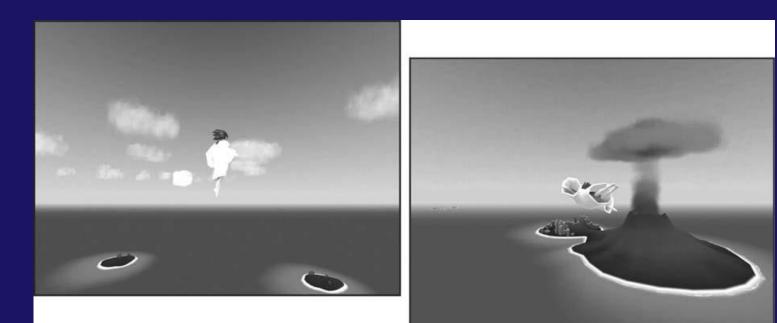
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1											1
2	Key			Action in each game state:							
3	100000			Land				Water			
4	Arrow key	Arrow keys		walk forward, back, left, right							
5	Shift key			run							
6	CTRL or L	CTRL or Left Mouse		shoot (hold for continuous shooti			ng)				
7	A Key			look up							
8	Z Key			look down							
9	Spacebar	Spacebar or Enter key		jump				kick to the surface, tread water			
10	C Key		8	press and h	hold to due	k					
1	and the second se	C + arrow forward		crawl							
12	A + Arrow	A + Arrow Left/Right		side-step							
13	1 Key			Axe							
4	2 Key			Shotgun							
15		3 Key		Double-barrelled shotgun							
16	4 Key			Nailgun							
17	5 Key	-		Perforator		1					
18	6 Key			Grenade la	uncher						
9	7 Key	-		Rocket launcher							
ŏ	and the second sec	8 key		Thunderbolt							
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Technology

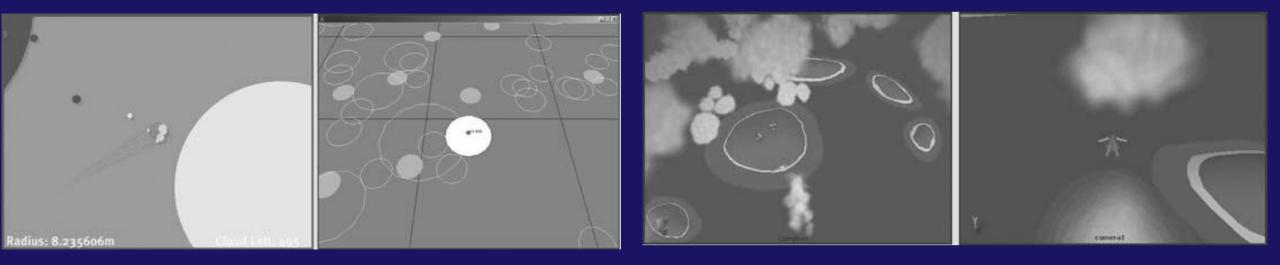
Any language

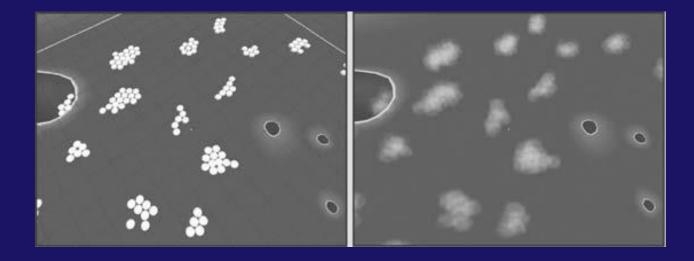
Priority

Try to keep checking, not creating ideas



Clouds





Overhead

Side View

Isometric View

First Person View

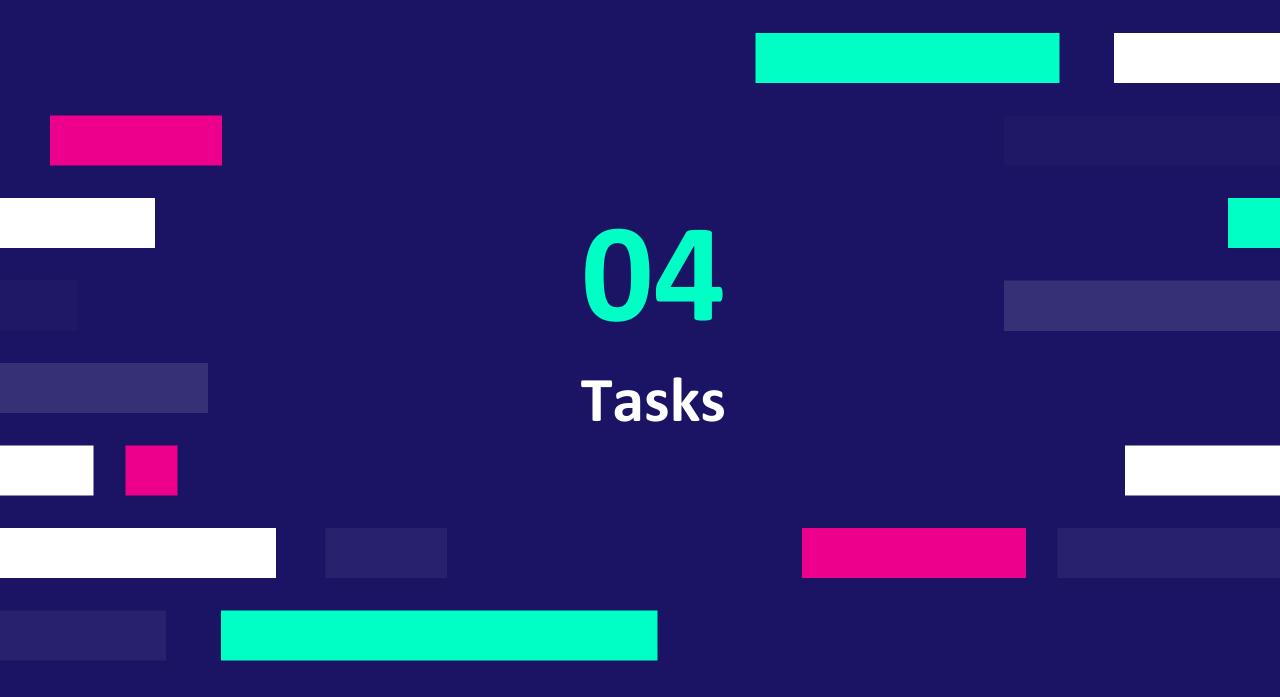
Third Person View

Views

What View?

Camera Position

What emotions?



What to do?

Sketch a core gameplay of the game you are familiar with

Sketch a core gameplay of your game (teams allowed)

Produce the first prototype

References

Game Design Workshop-A playcentric approach to creating innovative games-2nd Edition