Architecting a Multiverse

Cooperative Design in Dead Space 3



Seth Marinello - March 26th 2013

Phases of CO-OP Development

Concept

Technical

Gameplay

Experience



PHASE | Concept

Why add CO-OP?

- Disconnect between SP & MP in DS2
- Observations from the success of Hardcore Mode and NG+
 - DSI and DS2 are games that players replay over and over



Why add CO-OP?

- We are good at immersive narrative levels
- · People enjoy playing our content repeatedly
- CO-OP allows for a totally new and different way of experiencing what we are already good at making.



Dead Space 3 CO-OP Design Goals

- Single Player is untouched
- CO-OP feels like an extension of the core experience



Existing Patterns







Single Player

Cooperative Play





Single Player

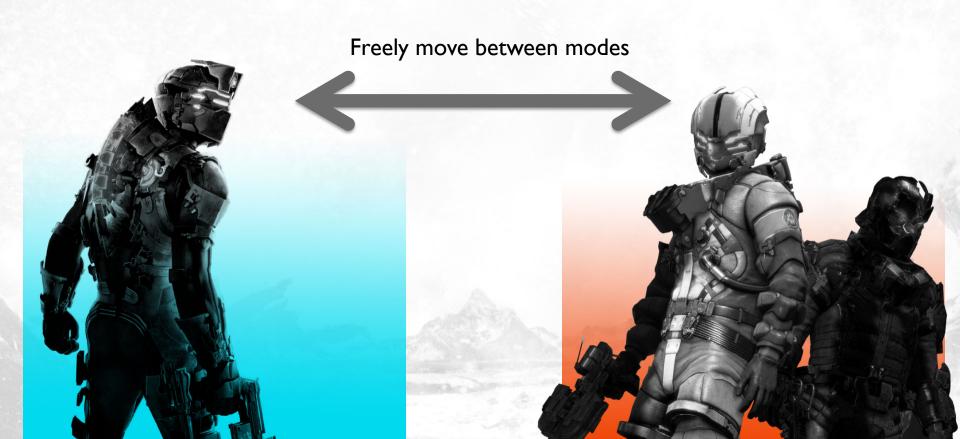




Cooperative Play



Cooperative Play



PHASE II Technology





Basic Scripting Changes

- All core gameplay scripting is done on the host
- Performance forced local scripting for
 - Environment Culling
 - VFX
 - Lighting
 - TK interactions

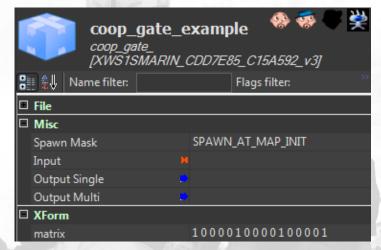


Divergent Scripting

Create a system for SP/COOP scripting

differences

coop_gate



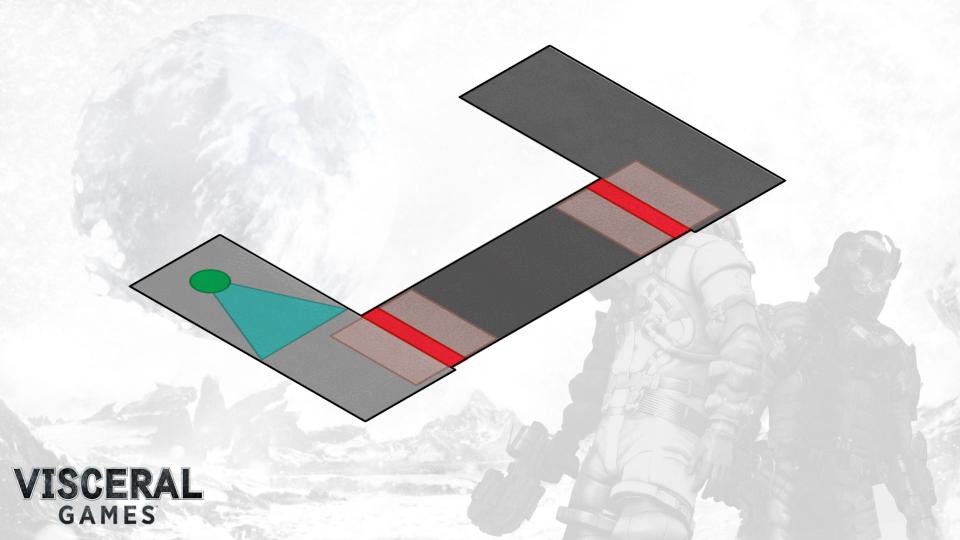
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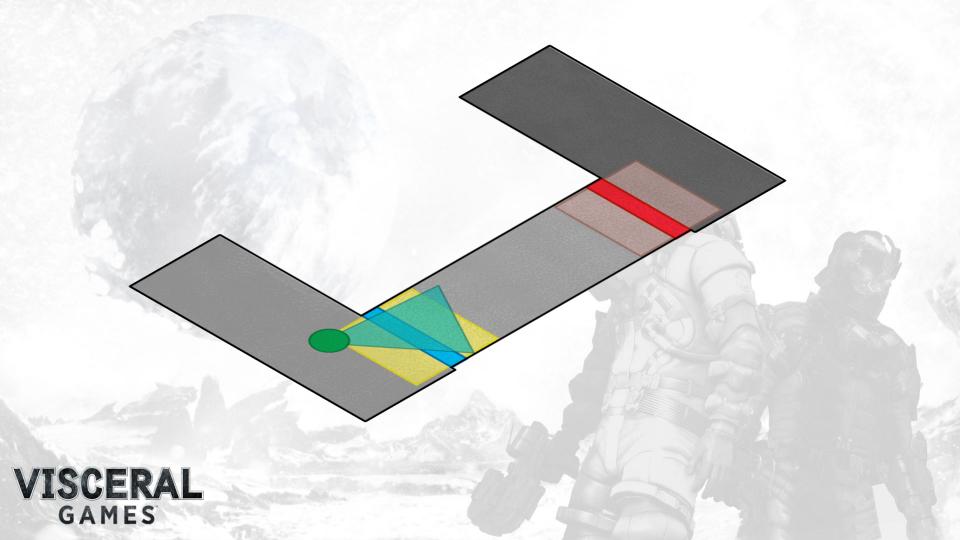


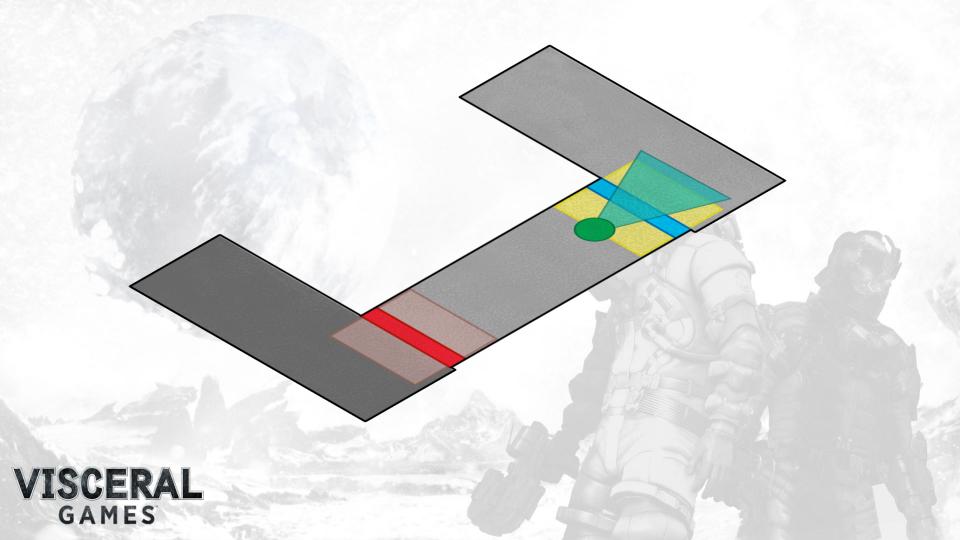
Gating Players

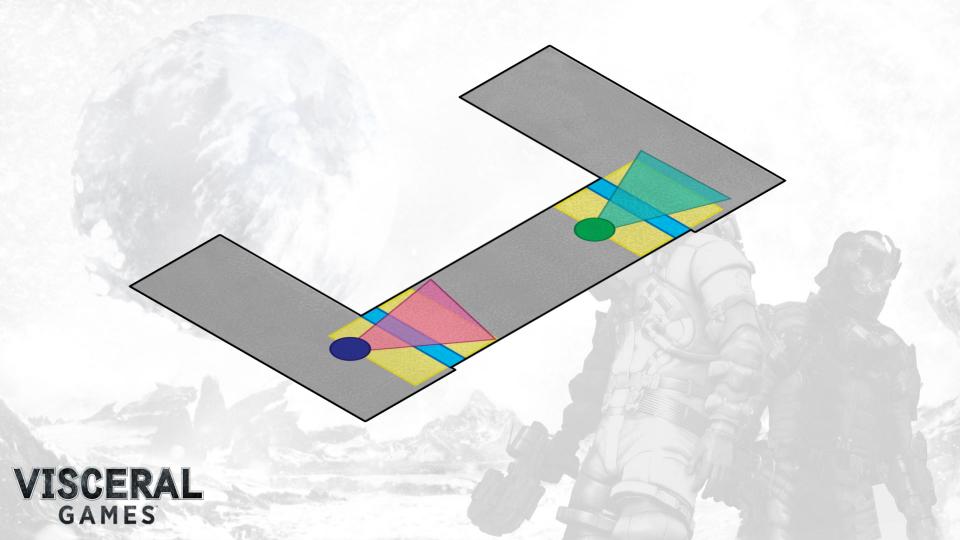
- How to keep players together?
 - Required for data streaming
 - Avoid getting lost or overwhelmed
 - Preserve player control as much as possible
 - No frozen poses while waiting for other player







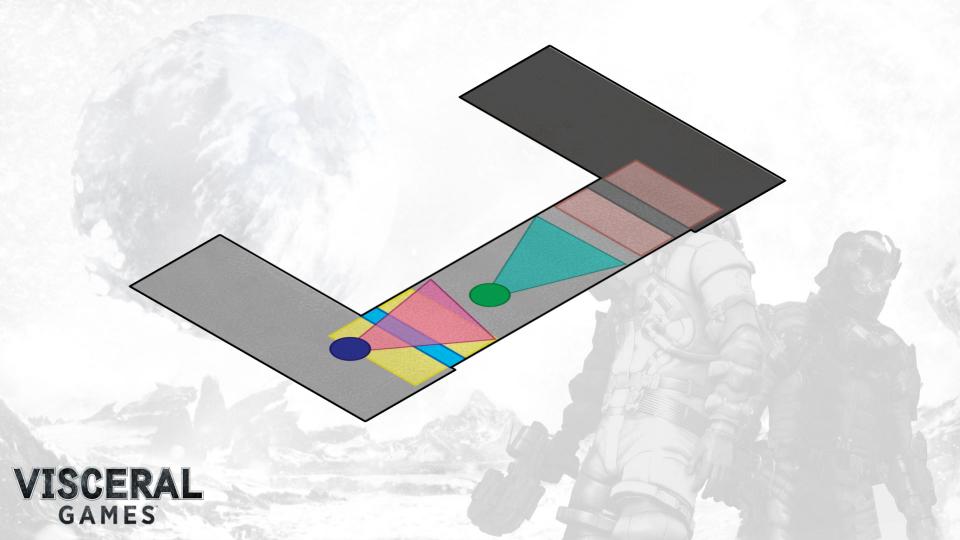


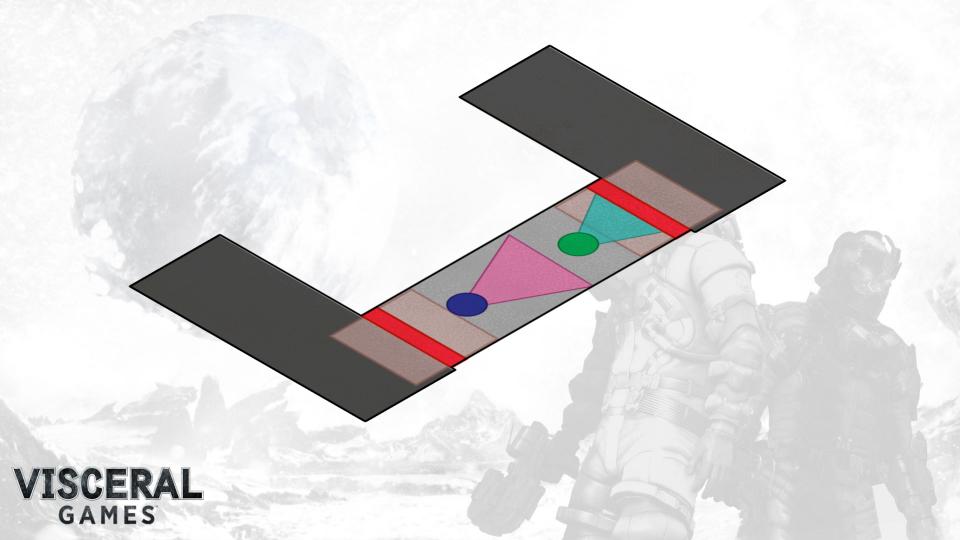


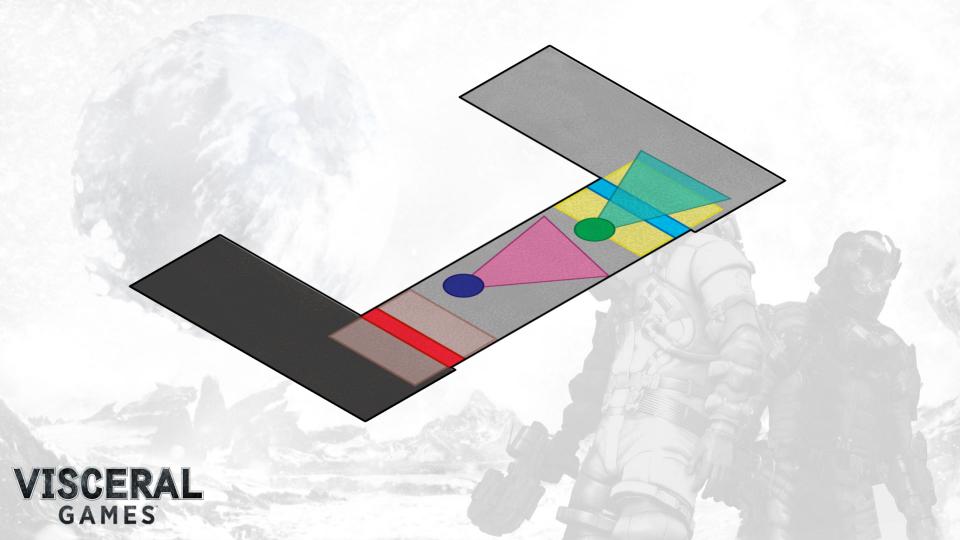
Doors

- Only one open at once
- Remain open until both players are on the same side









Gating Players

- Elevators
 - · Added gates or doors to all elevators,
- Lifts & Ladders
 - Do not have external gating mechanism
 - Allows for players to separate within one zone





PHASE III Gameplay

Balance

- Difficulty
 - Branching fights
 - CO-OP Damage Multipliers
 - Aggression





Balance

- Economy
 - Independent Drops
 - Shared pickup of major items





Activity Design

- Specific Goals
 - Create activities that work in SP and CO-OP
 - Make the second player feel needed









Two Cameras at Once

- Messaging puzzles
 - One player can hit a trigger while the other is in a totally different room







PHASE IV Experience



















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Concept

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Gameplay

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Q&A

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