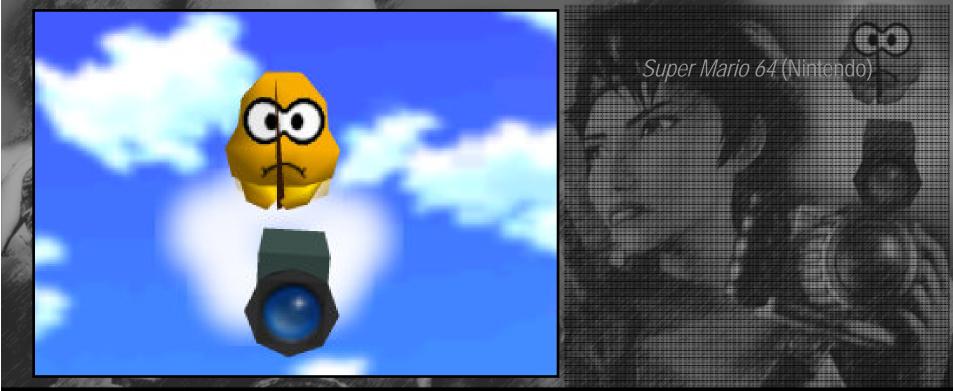
INTERACTIVE INTERACTIVE



Introducing... the camera







Not about "trying to be like Hollywood"

- (they wish they had our interactivity)
- Not about interrupting the gameplay
 - Player-driven experience first
- Not even limited to the camera itself per-se!
 - The visual perception of the game environment goes beyond it
 - Kingdom Hearts (SquareEnix)

Thiéry adam - GDC 2007

What This Is



1. Control

Classic Problem: Who knows better?

 Wanting to help the player, we take control of the camera through automations

• Player ends up fighting the camera

Okami (Capcom)



1. Control

Listen to the player and help him

 In an interactive medium, the player wants to feel in control

Player shouldn't realize he is being helped

• Yet player shouldn't have a hard time achieving the desired result

 The trick is to tie assisted cinematography to game mechanics

Halo (Bungie)



2. Framing

Classic Problem: Even Framing





Framing via the environment



Tightness of frame = amount of visual information

- More information = comfort
- Less information = anxiety
- Establish sightline evolution based on the desired information & emotional evolution

Far Cry (Crytek)

2. Framing

INTERACTIVE CINEMATOGRAPHY

Meaning via Framing



Tightness of frame = intensity
Wider framing = objective
Tighter framing = personal
Read player input on where his attention is and maximise its meaning.

Ghost Recon Advanced Warfighter (Red Storm)

3. Composition

INTERACTIVE CINEMATOGRAPHY

Classic Problem: Where will the player look?

 Myth: we cannot predict where the player will look or where he will go, so we have no frame composition to exploit

> Without guidance, player tries everything until the "right" choice is left

• We then rely on immersionbreaking artifices to idiot-proof

Half-Life (Valve)

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3. Composition

Choose where to attract attention

 Players look somewhere or move somewhere because they get directed to

> Guiding lines in the composition (through perspective or implied movement)

 Contrast (light vs dark, detailed vs simple, animated vs immobile)

Splinter Cell: Chaos Theory (Ubisoft)



3. Composition

Compose for guaranteed point-of-views

 Be aware of when line-of-sight is established with key ingredients and what is on-screen at that moment

- Decisions are based on what is perceivable
- Ingredients have a hierarchy of interest and take meaning in their spatial relations

Rainbow Six: Vegas (Ubisoft)



4. Transitions

INTERACTIVE CINEMATOGRAPHY

Classic problem: disorientation



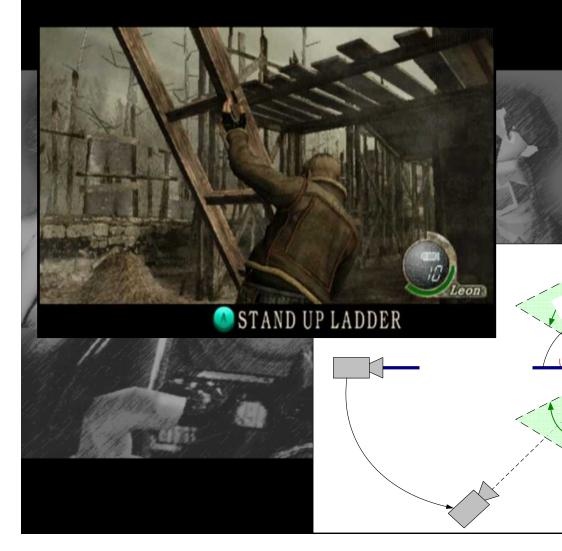
• Most games avoid camera transitions because it can disorient the player, especially when controlling movement

- Most games keep a single long camera, overextending a shot beyond its interest.
 - Camera cut games resort to controller patches to minimize the side-effects of player disorientation

God of War (Sony)

4. Transitions

INTERACTIVE CINEMATOGRAPHY



180° rule shorthand

• In a free-camera game, it can be hard to determine where the line of action is.

• The important part is to avoid changing the 2D screen left from being left, the 2D screen up from being up, etc.

> The movement vector then has to be clearly within 90 degrees.

> (Also move a minimum of 30 degrees to avoid the indecisive cut)

> > Resident Evil 4 (Capcom)



 Video game cinematography goes through enhanced player action

• A framing rhythm is created through sightline variations & attention focus

 Player eye & action are in direct control, exploiting line-of-sight establishing pointof-views

• Rich shot transitions can be exploited if attention is paid to 2D screen directions

Bone (Telltale Games)



