



# The Art of Blues and Bullets

Dominating 256 Shades of Grey

**Daniel Candil**

Art Director | A Crowd of Monsters

Who am I? Daniel Candil



**TecnoCampus**  
Construïm futur

# Who am I? Daniel Candil

- The **Art** Director of A Crowd of Monsters
- **Art** Professor at the University (*Tecnocampus*) in Barcelona
- The responsible of a great team of talented **artists** at ACOM



**Tecnocampus**  
Construïm futur

We've been focused on creating the visual direction and the **art** of the game about we're gonna talk today.



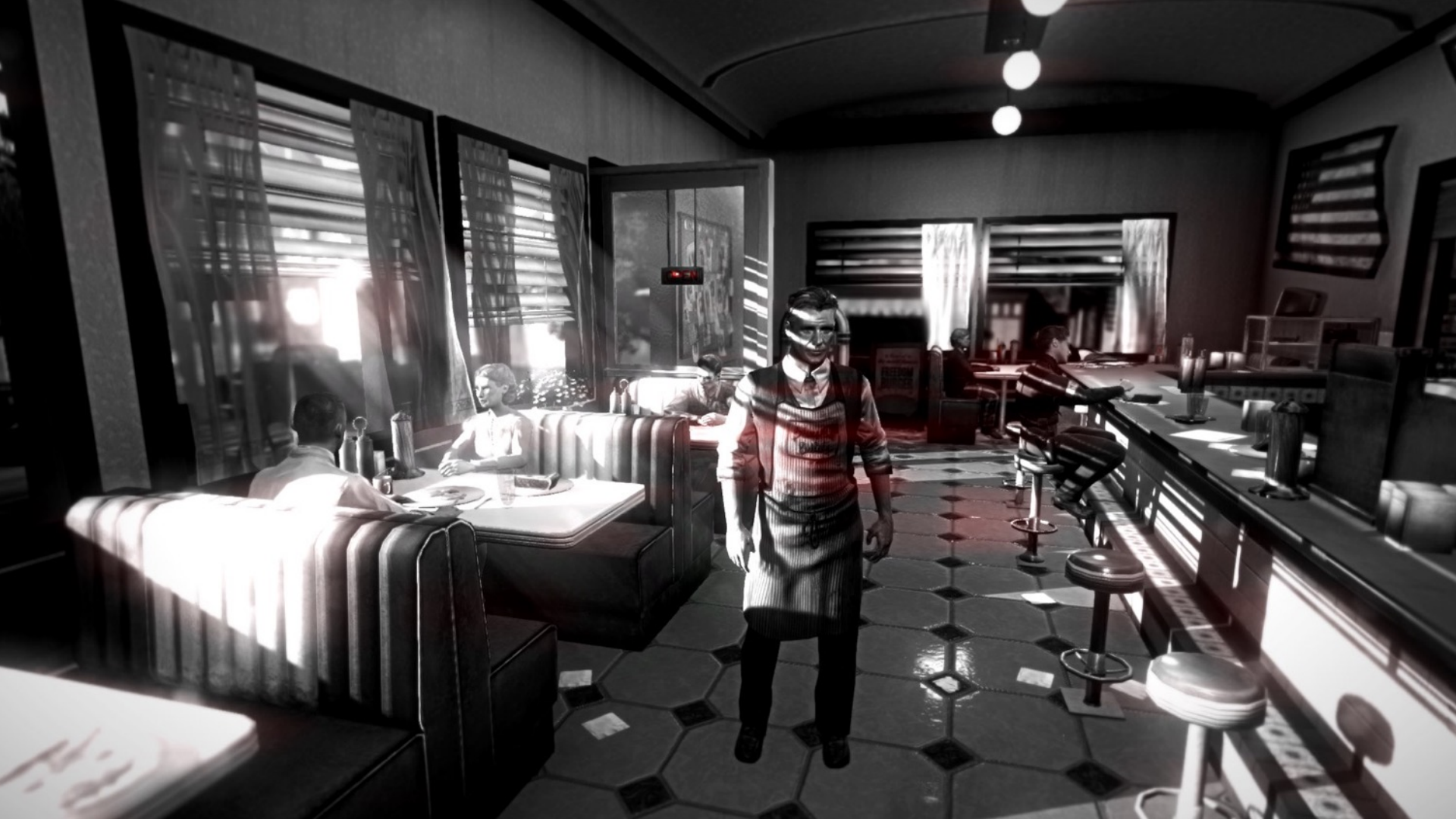
# BLUES AND BULLETS

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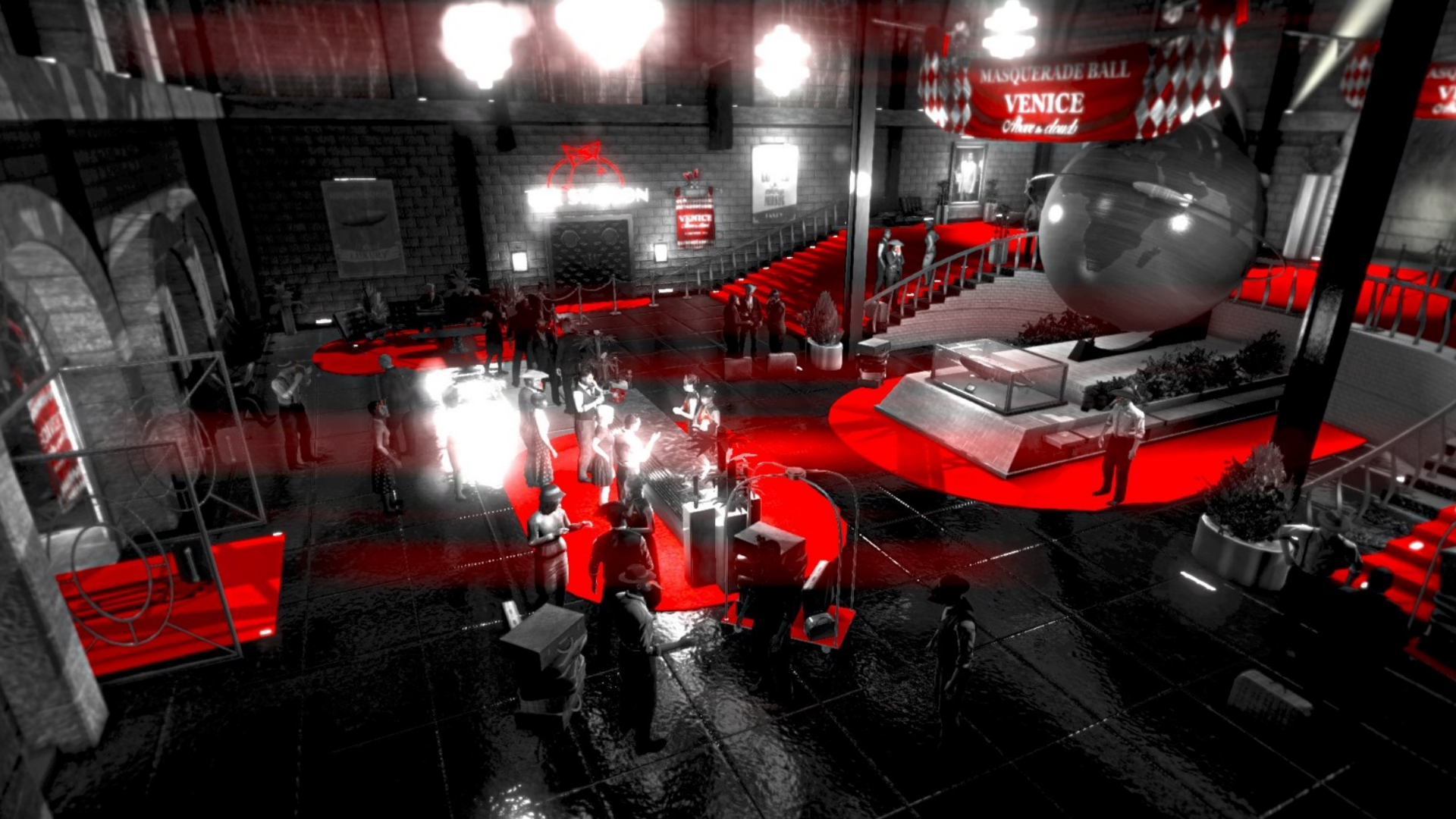
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**THIS  
TOWN  
HAS BECOME  
A JUNGLE**









# Development Key Points

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- Episodic Game (5 Chapters)

## BLUES AND BULLETS





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- PC, Xbox One, PS4

## BLUES AND BULLETS





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# Development Key Points

- Episodic Game (5 Chapters)
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## BLUES AND BULLETS



## BLUES AND BULLETS

# Artistic Key Points



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- DANGER: Monotony of the grey color

**Blues and Bullets** it's our tribute to  
the noir genre.

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**NARRATIVE**

**AESTHETICS**

**Blues and Bullets** it's our tribute to  
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**NARRATIVE**



**AESTHETICS**

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**NARRATIVE**  
NARRATIVE RHYTHM



**AESTHETICS**  
VISUAL RHYTHM

# NARRATIVE

The Pacing of the Noir genre



## BLUES AND BULLETS

Slow start but end up  
with great climax




# BLUES AND BULLETS

The characters  
are introduced  
calmly



## BLUES AND BULLETS



The main character **carries**  
**all the weight of the world**  
**in his shoulders** progressively  
as the story advances until...

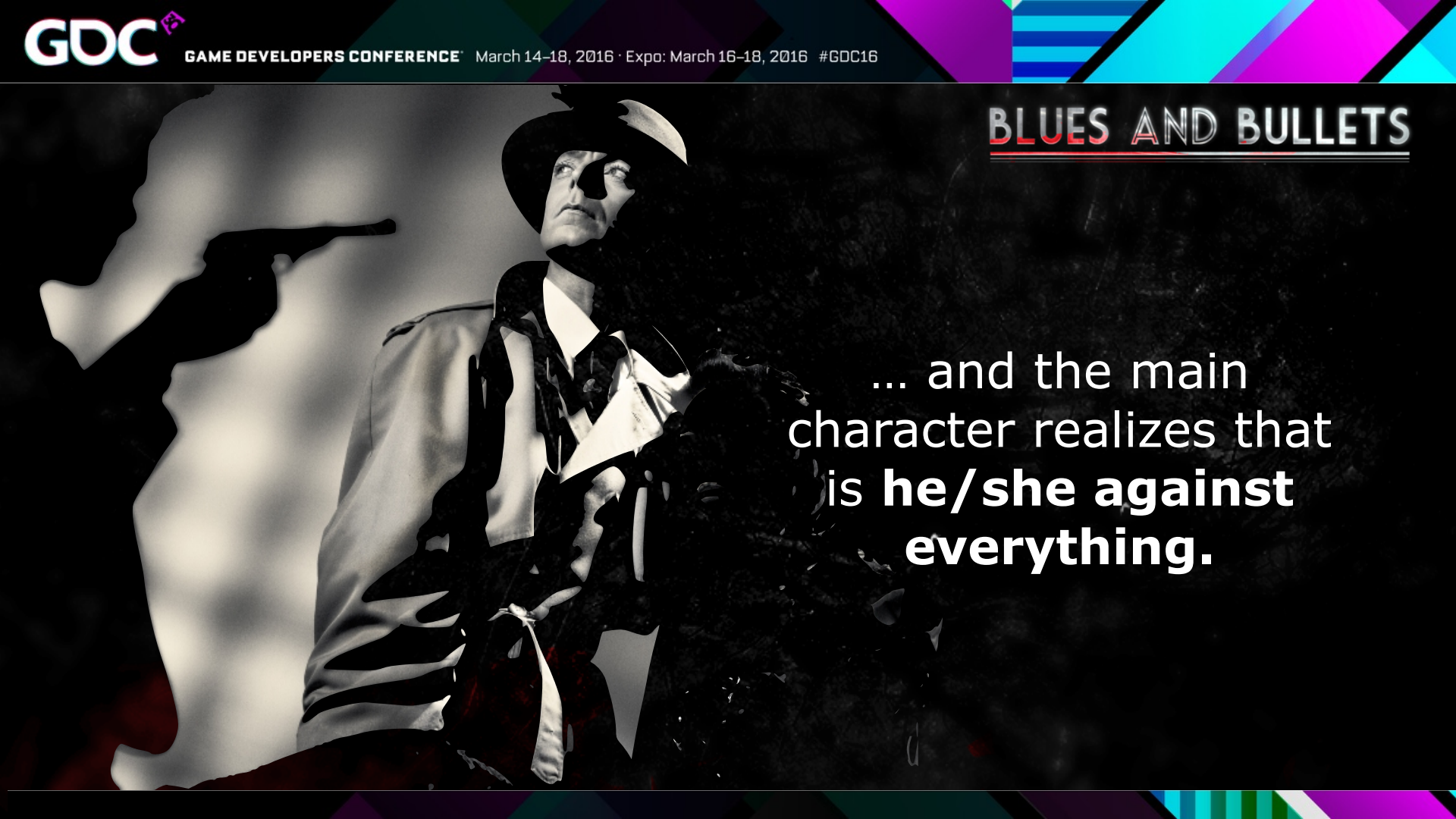
# BLUES AND BULLETS



**...SHIT HAPPENS...**



## BLUES AND BULLETS



... and the main character realizes that is **he/she against everything.**

# NARRATIVE

The Pacing of the Noir genre

BLUES AND BULLETS

**Noir implies slow pacing!**

## NARRATIVE

The Pacing of the Noir genre

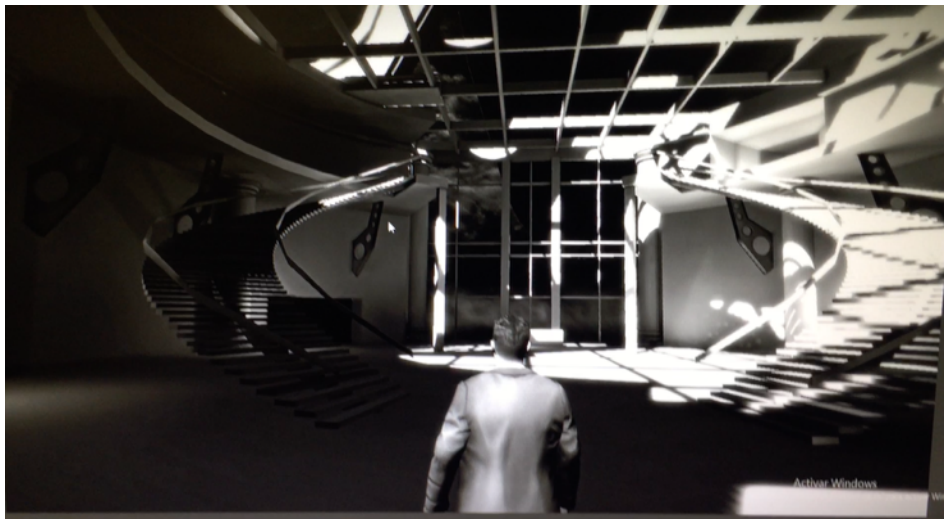
BLUES AND BULLETS

**Noir implies slow pacing!**

**TOO SLOW FOR A VIDEO GAME?**



# Demo time!



# WE CONFIRMED SOME THINGS:

- The Narrative rhythm **was as slow as expected.**
- While this would have worked fine on a movie...

**The player took far too long to  
engage fully in the story for a  
video game!**

**We needed to know exactly  
what kind of Narrative  
Rhythm our game had...**



NOT THE REAL  
ATTENTION PYRAMID



# THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

# THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

### EPISODE 1

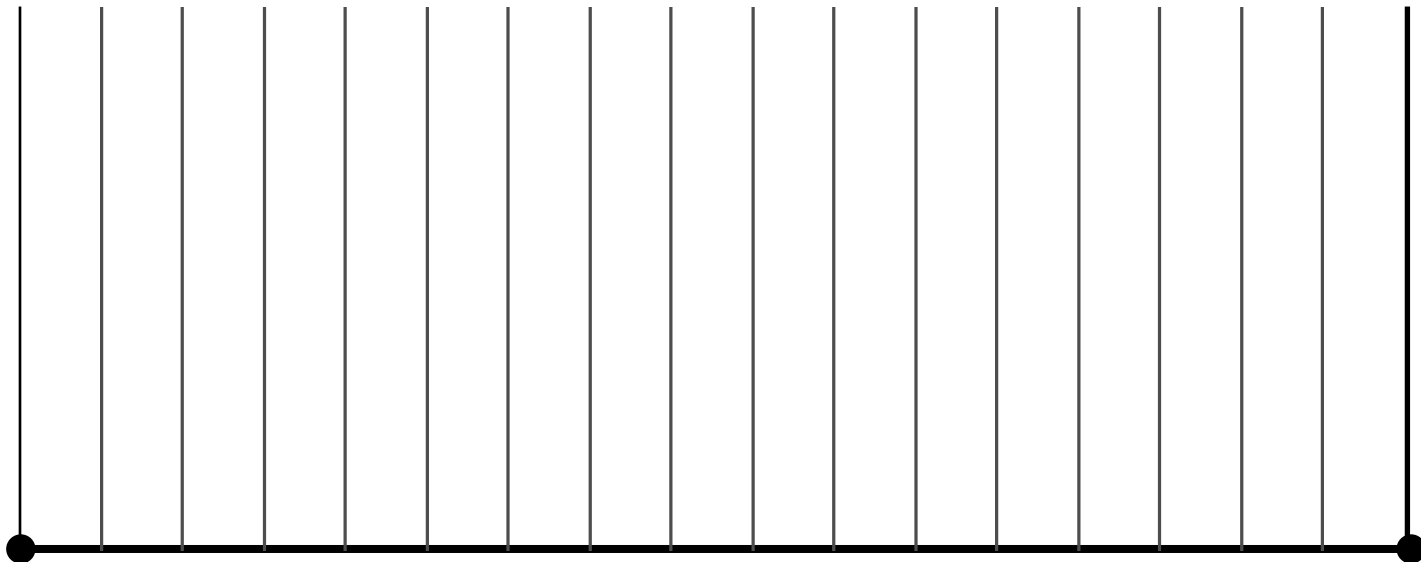




# THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

### EPISODE 1



## THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

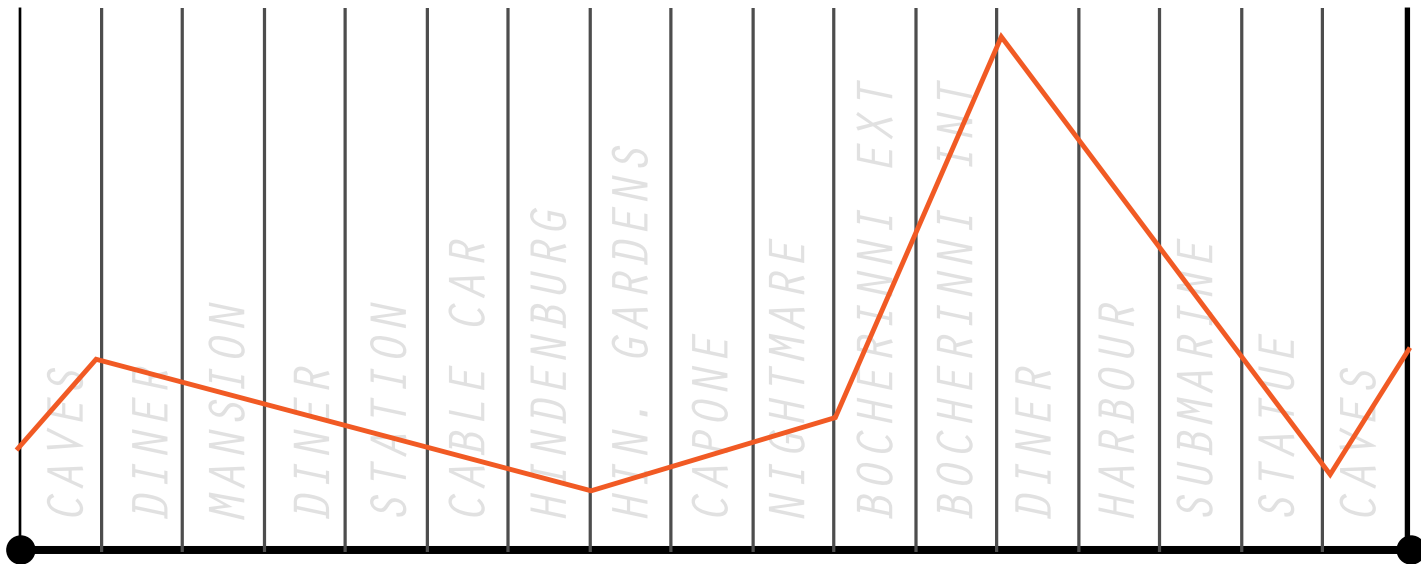
## EPISODE 1

INTRO	CAVES
SCENE 1	DINER
SCENE 2	MANSION
SCENE 3	DINER
SCENE 4	STATION
SCENE 5	CABLE CAR
SCENE 6	HINDENBURG
SCENE 7	HIN. GARDENS
SCENE 8	CAPONE
SCENE 9	NIGHTMARE
SCENE 10	BOCHERINNI EXT
SCENE 11	BOCHERINNI INT
SCENE 12	DINER
SCENE 13	HARBOUR
SCENE 14	SUBMARINE
SCENE 15	STATUE
EPILOGUE	CAVES

# THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

### EPISODE 1



We analyzed the player's attention progress throughout the game.

## THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

## EPISODE 1

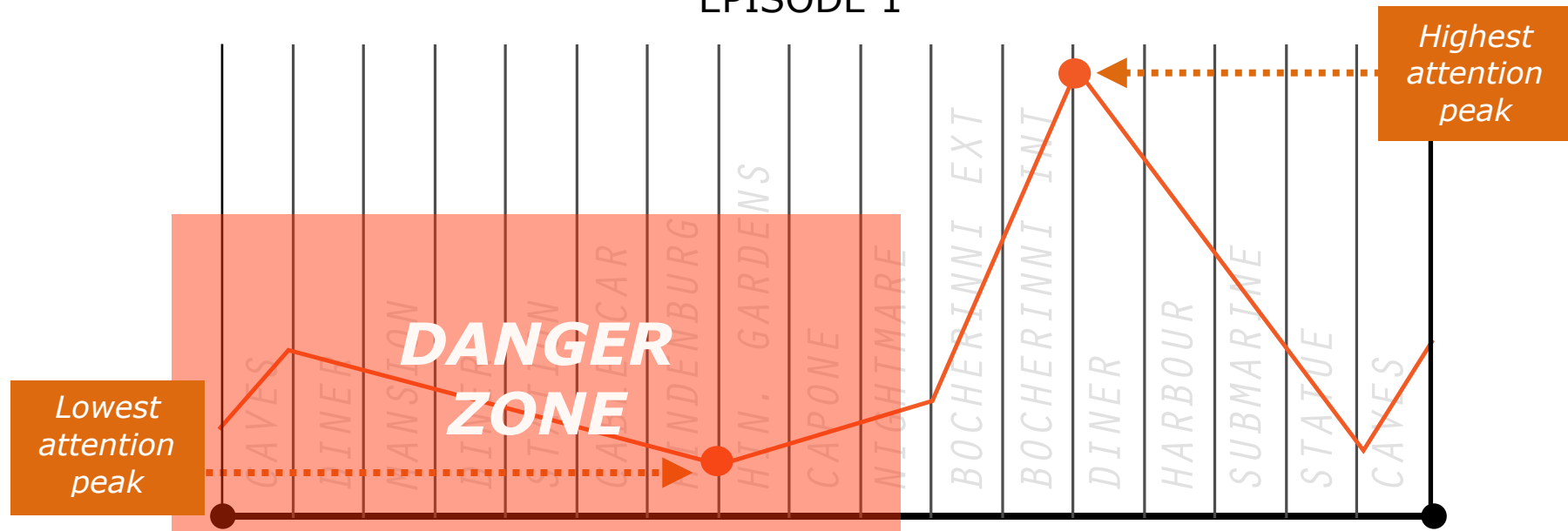


This way we ended up visualizing the **narrative rhythm**.

# THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

### EPISODE 1



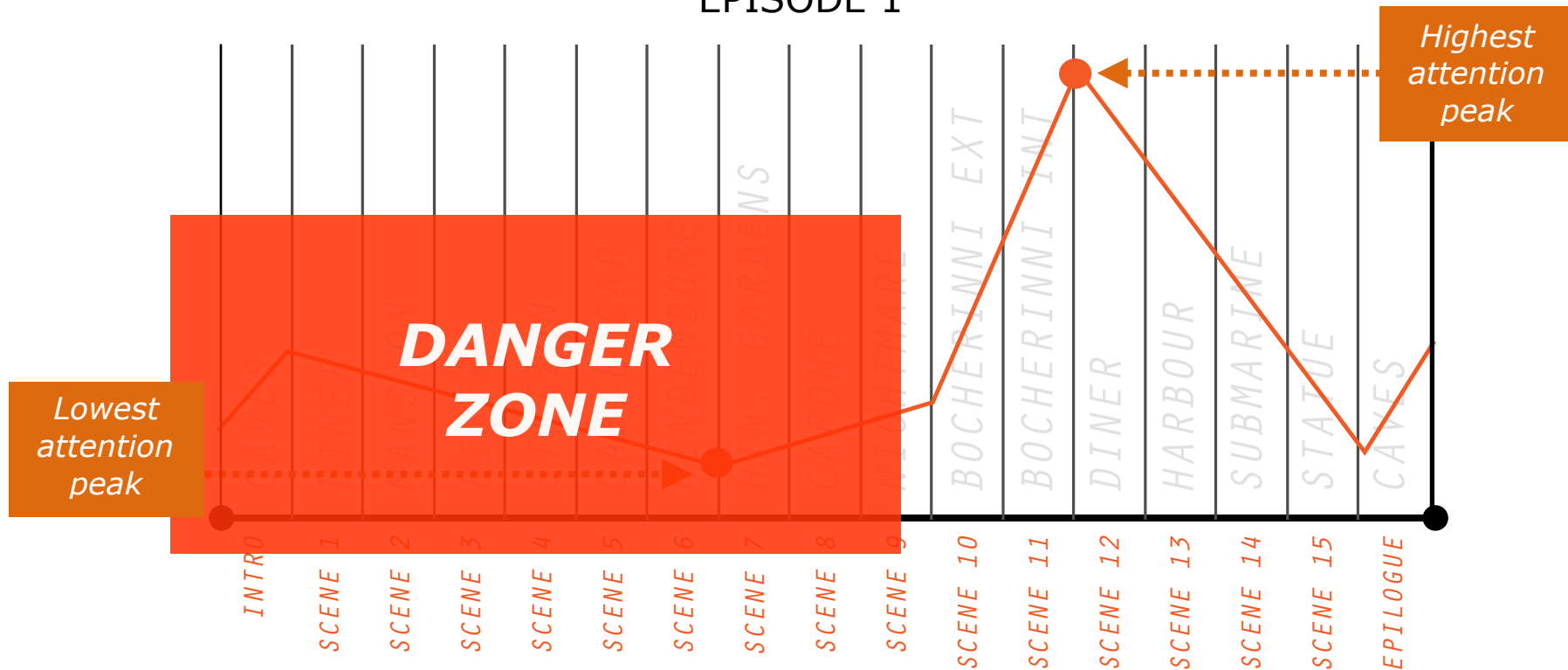
We could locate the **danger zone** in which the player may end up losing his interest



## THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

## EPISODE 1




With this in mind we can start to  
develop our Visual Rhythm

# AESTHETICS

Dominating 256 Shades of Grey

# Artistic Key Points

- Noire Aesthetic
- Settled into the american 20's and 50's
- Limited color palette (B,W, R) 
- Expressionist approach in lighting
- DANGER: Monotony of the grey color

## BLACK AND WHITE

- When you are trying to make a Black and White video game in a modern engine you may end up fighting against **the grey color**.



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- When you are trying to make a Black and White video game in a modern engine you may end up fighting against **the grey color**.

## GLOBAL ILLUMINATION

## BLUES AND BULLETS

GLOBAL ILLUMINATION ISN'T SOMETHING  
AS NEW AS IT SOUNDS....

## BLUES AND BULLETS

Humanity needed almost 19 centuries to learn that the shadow is not “**Black**”. It has a lot of colors.



***Baroque  
XVII Century***

***Dramatic lighting***

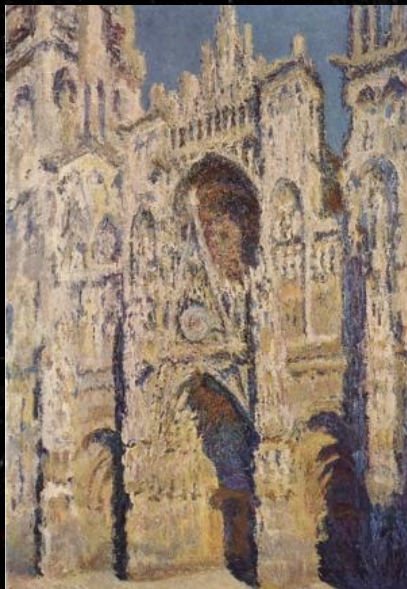
***Shadow is almost black***

***It's an unified tone in the  
lighting (yellow in this case)***

*The Calling of St. Matthew. Caravaggio.*



# Impressionism (S.XIX)



Claude Monet 1840 - 1929 Paris









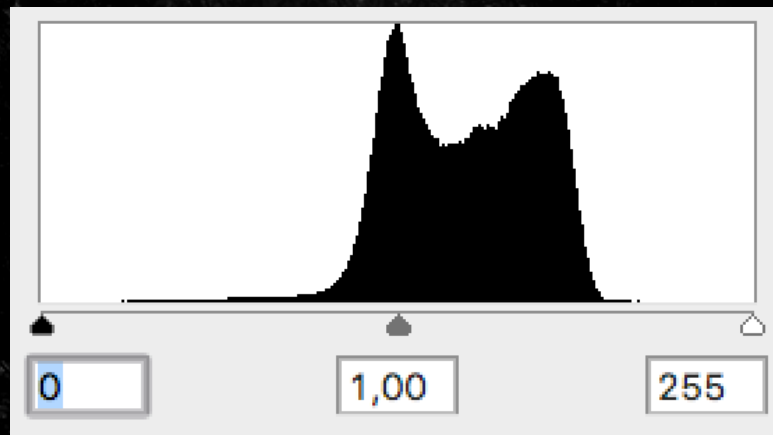
***A lot of different hues of blue in the shadow, the silhouette of the buildings***

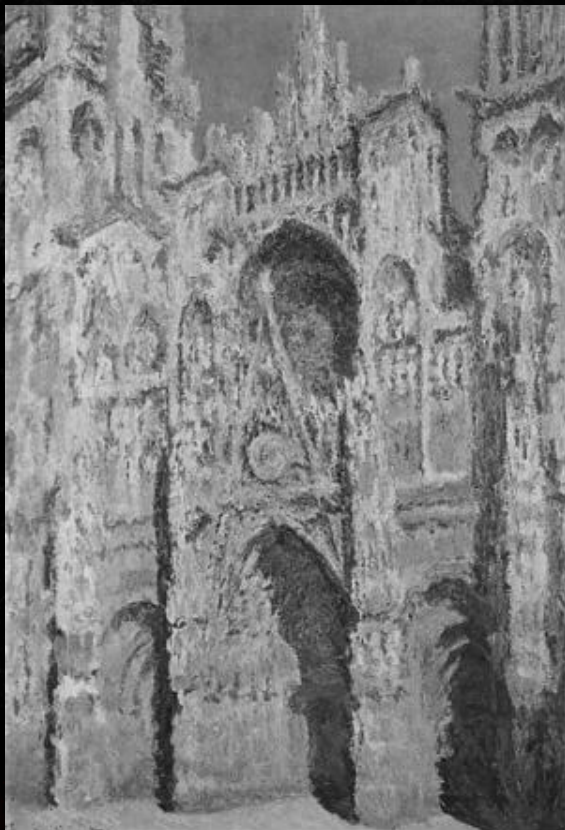
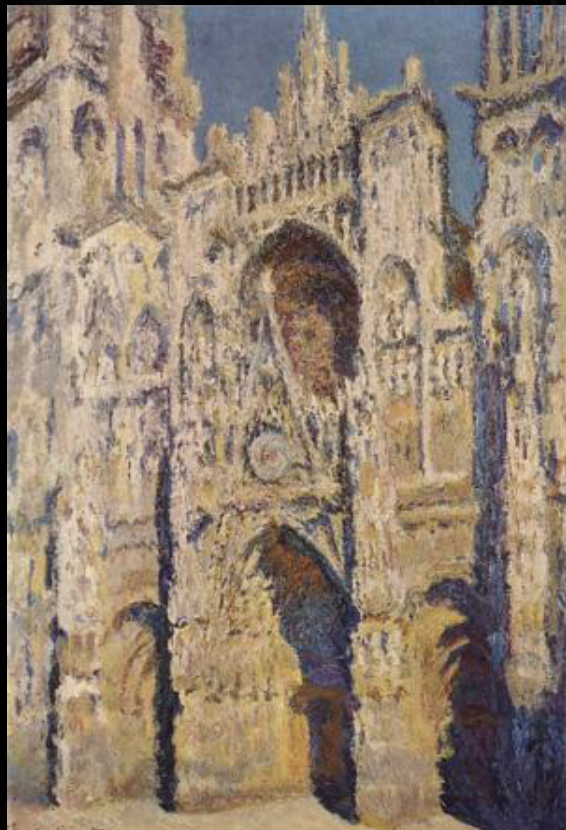
***The orange hues of the sky in the water***

***It's a powerful image  
The contrast works but...***

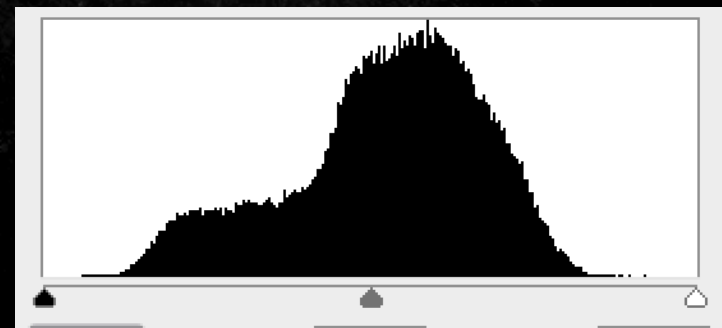








Rouen Cathedral 1894



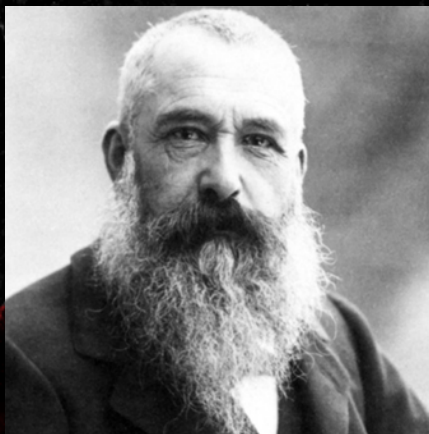


Falaises près de Pourville 1882



In fact, we could say they were applying...

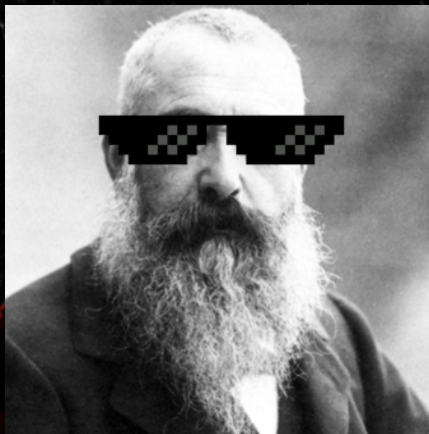
**“Global Illumination”...**



Claude Monet

# BLUES AND BULLETS

... in 1880 (the 19th Century).



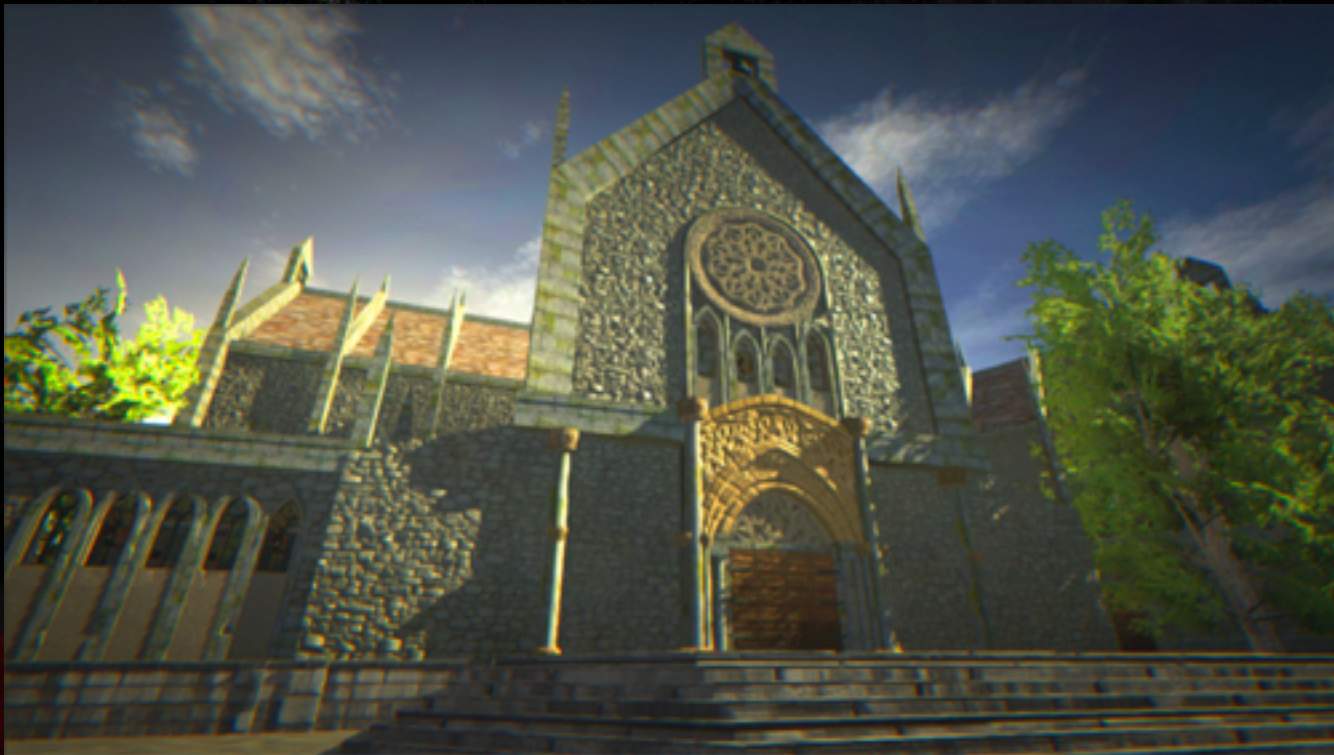
Claude Monet

## BLUES AND BULLETS

Let's see what happens in a modern engine  
with a realistic lighting approach.



## BLUES AND BULLETS

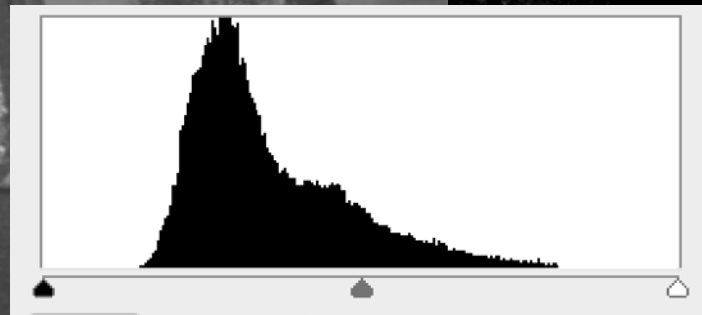




## BLUES AND BULLETS



# BLUES AND BULLETS



The modern engines with Global Illumination help us to create great images, and they are perfect for realistic color approaches... but in our case they created our worst enemy...



# THE GREY COLOR



- Kills the brightness and the darks
- Gives everything the same visual magnitude
- Produces visual **monotony**



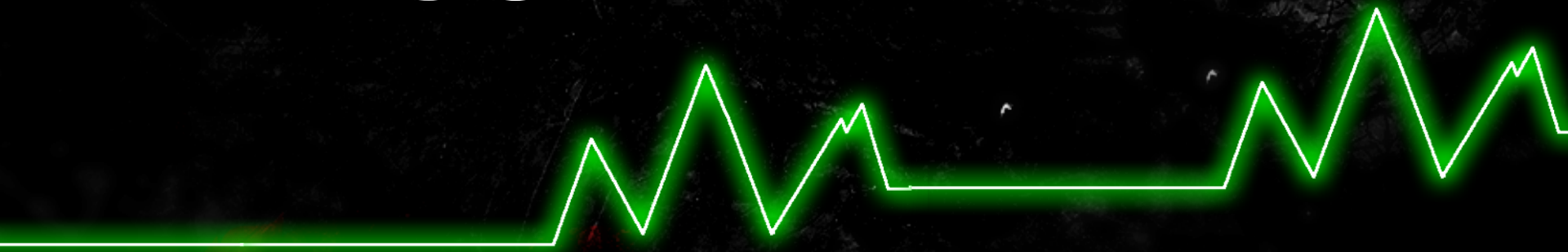
# BLUES AND BULLETS

How can we **fight** against the  
**monotony** and the grey color?

## BLUES AND BULLETS

Going back to the fundamentals of visual design  
and creating a good...

# VISUAL RHYTHM



## BLUES AND BULLETS

We create rhythm almost immediately **when we put elements on screen**, but you can plan how they appear and behave.

## BLUES AND BULLETS

For example, the repetition of similar shapes, colors... sets up a rhythm **that makes seeing easier and more enjoyable.**







## BLUES AND BULLETS

To be effective, **rhythm also requires variability** - rhythm that is too similar is boring.





## BLUES AND BULLETS

We need to adjust the visual impacts, the pattern that the user is seeing. We can create a most suitable visual rhythm introducing variations at the right moments.





## BLUES AND BULLETS

Ok, we know we need to boost the visual rhythm but...

# HOW DO WE DO IT?



**How?** (we have some tools to help)

- Using the Red Color.

# RED IS PASSION

- Red is the color of passion, the most emotional color of all.
- Red elements appear only to enhance the visual rhythm.
- It's the only color we use besides black and white.
- Stimulates us in a physical way even raising the pulse rate.



## How? (we have some tools to help)

- Using the Red Color. ✓
- Symmetrical environment design on key scenes.



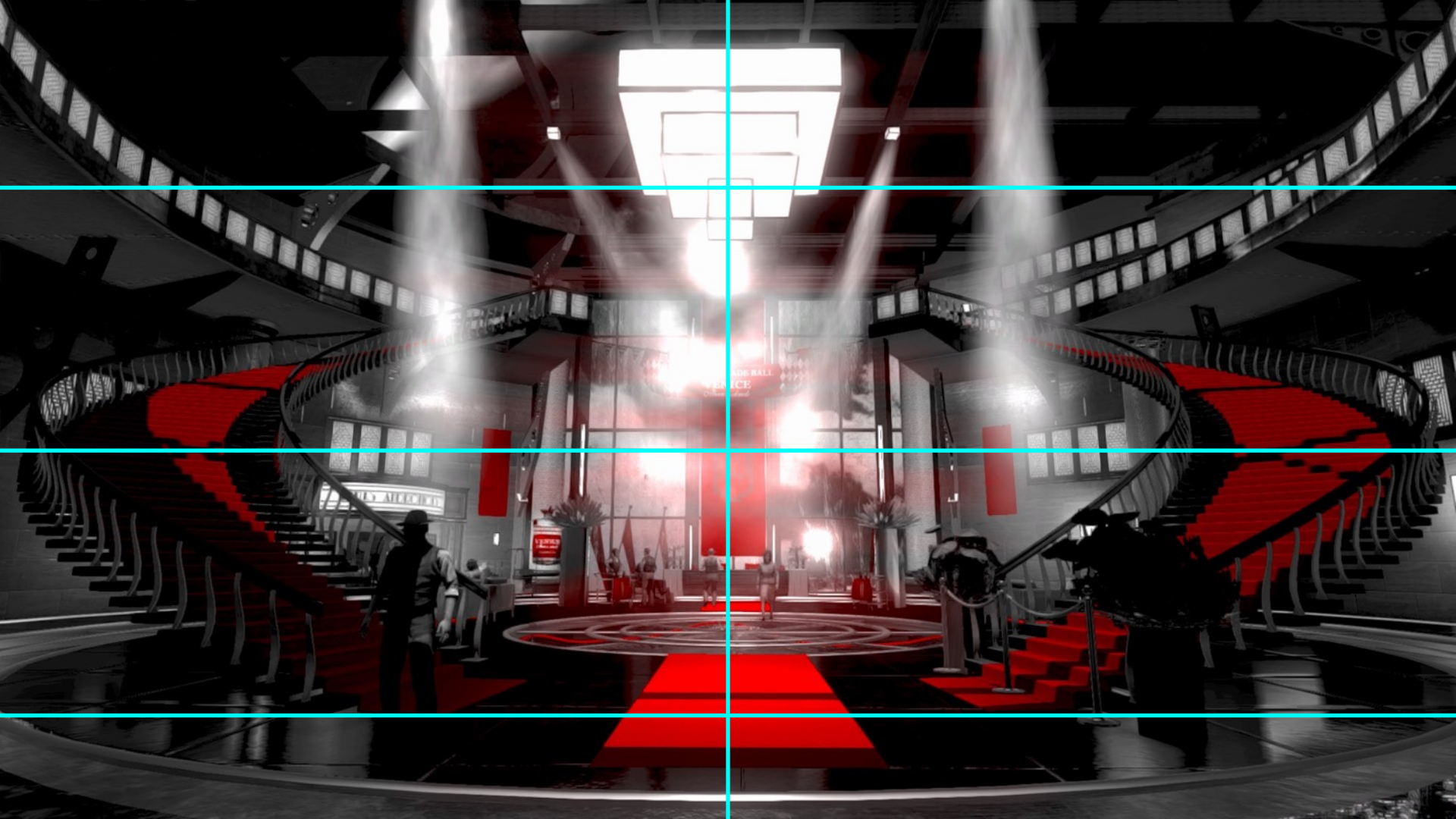
# Gestalt Law of Symmetry

## 1920-1930

- We prefer symmetric appearances over asymmetric ones.
- Symmetric objects or arrangements are associated with positive aspects such as stability, consistency and structure.
- A symmetric and grandiloquent environment (in comparison at other environments) at some key scenes helps us to boost the visual rhythm.







## How? (we have some tools to help)

- Using the Red Color. ✓
- Symmetrical environment design on key scenes. ✓
- The light has to be designed shot by shot.



# Lightning in German Expressionism cinema



- A reaction **against the Realism** in the 20's
- Artistic control over the placement of scenery and **light to enhance the mood.**
- Master directors like **Fritz Lang** emigrated to USA where they became the pillars of Noir Film Aesthetic.

# Lightning in Noir Cinema



- Constant use of the “*chiaroscuro*” (low key light)







# Lightning in Noir Cinema



- Constant use of the “*chiaroscuro*” (low key light)
- Use of **cookies**, **gobos** to remark the intensity and the mood of the scene.
- 3 lights setup (main, fill and back)  
**studied and adjusted shot by shot.**



## Out of the Past

Jacques Tourneur



Robert Mitchum

Jane Greer



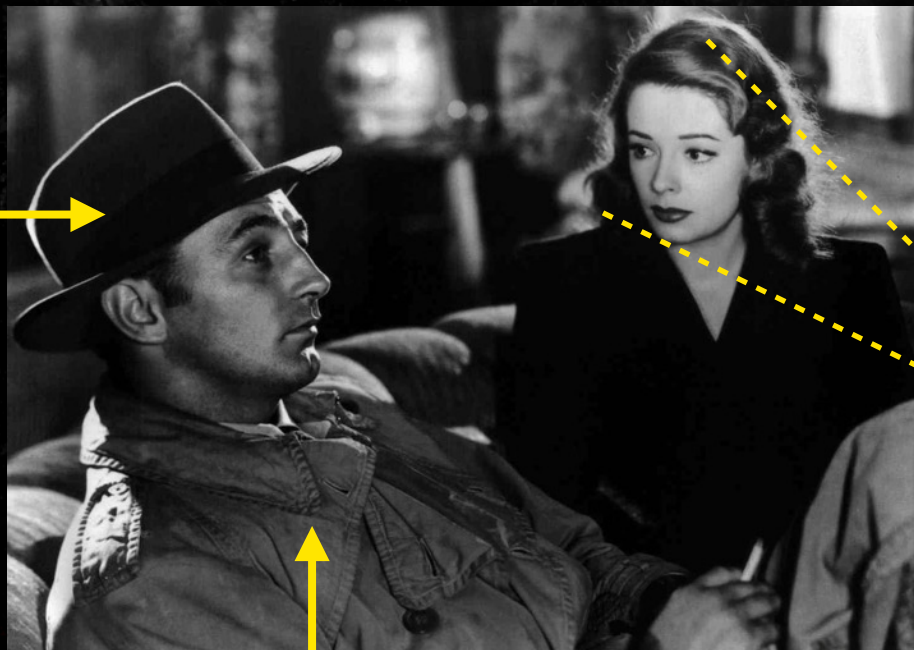
**Out of the Past**  
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**Out of the Past**  
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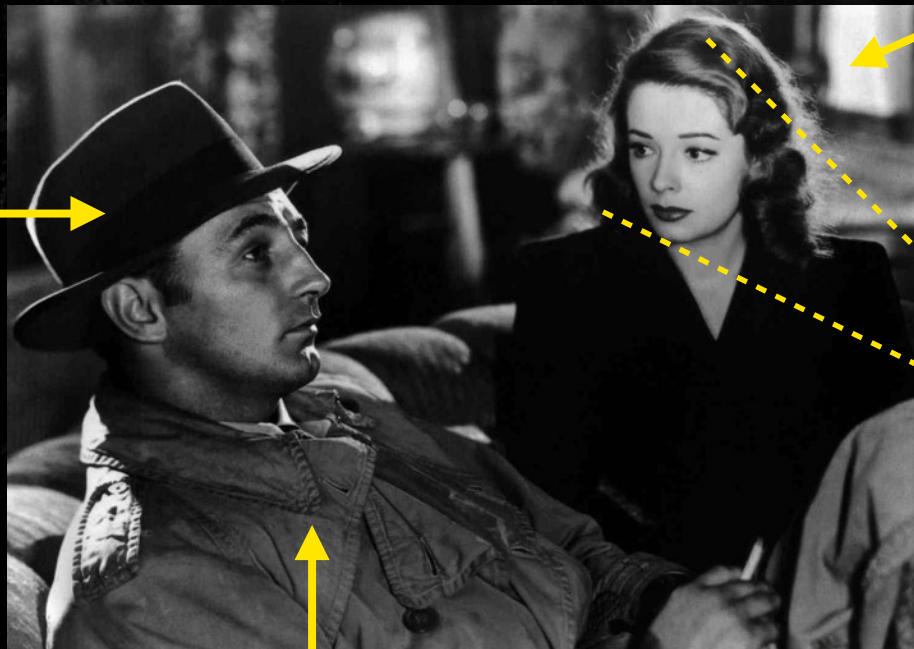




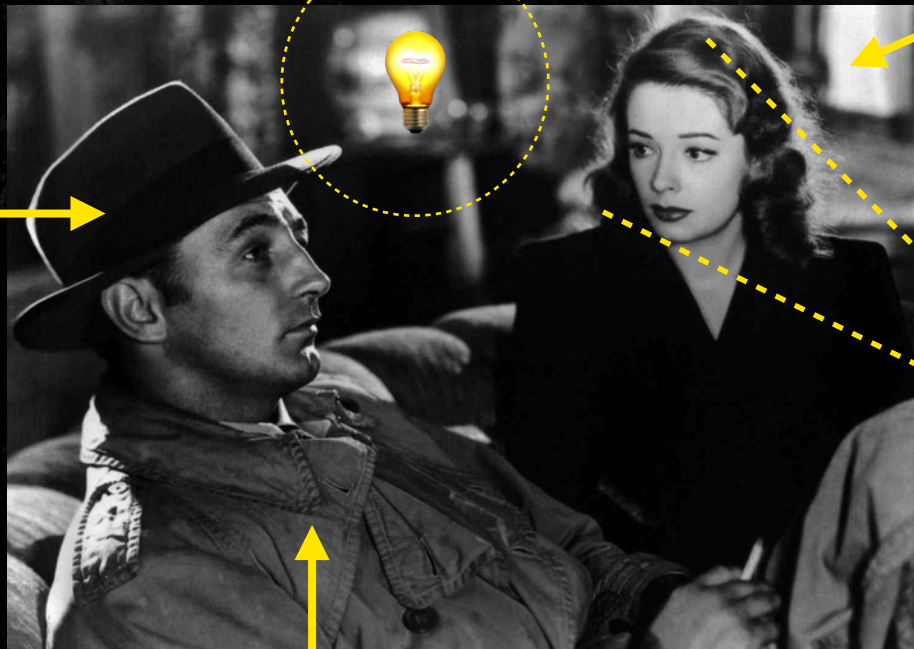
**Out of the Past**  
Jacques Tourneur



**Out of the Past**  
Jacques Tourneur



**Out of the Past**  
Jacques Tourneur





**Don't try to mimic reality... the light  
has to create an emotional impact.**



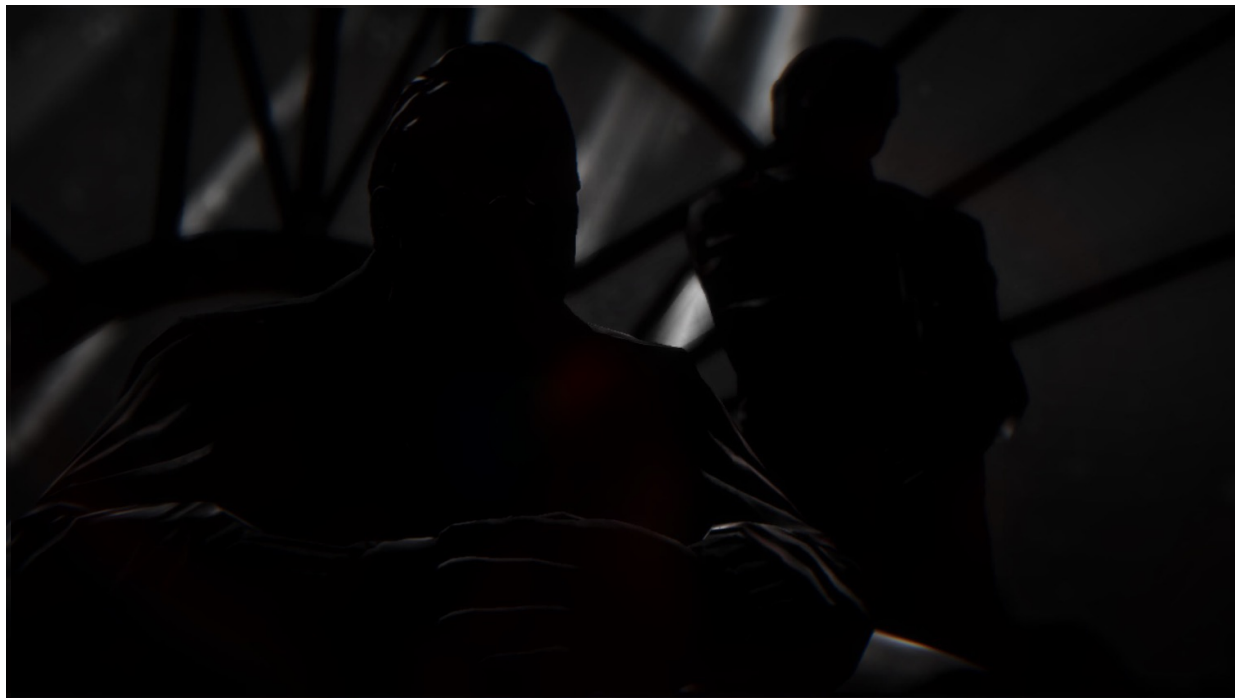






***Regular  
light***

**It's OK, a neutral lightning**



***Light  
OFF***

**We turn the lights off in this shot.**



## ***Rim Light***

**We add a rim light to empathize the shapes.**





***Rim Light***



***Side Light Left***

**We add a side projected light to enlighten the face**



***Rim Light***



***Side Light Left***



***Gobo + Light***

**We add a gobo with a pattern to add more contrast**



***Rim Light***



***Side Light Left***



***Gobo + Light***



***Fill Light***

**We add a fill light to enlighten the darkest zones.**



***Rim Light***



***Side Light Left***



***Gobo + Light***

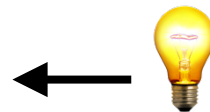


***Fill Light***



***Secondary Light***

**Finally we add a secondary light to enlighten the character in the background.**



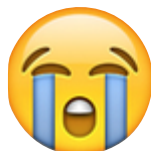


- We ended up with a shot **illuminated by 5 lights.**

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- Every shot in the game needs **to be illuminated with care by hand** trying to maximize the visual impact and creating the right mood..

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- Blues and Bullets Episode 1 has... **578 shots**

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- Blues and Bullets Episode 1 has... **578 shots.**



## How? (we have some tools to help)

- Using the Red Color. ✓
- Symmetrical environment design on key scenes. ✓
- The light has to be designed shot by shot. ✓
- Variable contrast, bloom and dirtiness according to the scene's dramatic weight.





**Clear render in game.**



**Clear render in game.**

- Boost the contrast



## Clear render in game.

- Boost the contrast
- Add Bloom
- Add Dirtiness



## How? (we have some tools to help)

- Using the Red Color. ✓
- Symmetrical environment design on key scenes. ✓
- The light has to be designed shot by shot. ✓
- Variable contrast, bloom and dirtiness according to the scene's dramatic weight. ✓
- A red halo is present in different intensities.







31 CARR  
AV

## BLUES AND BULLETS

“Rhythm is a state of equilibrium which proceeds either from symmetries, simple or complex, or from **delicate balancing...**”

*Three Reminders to Architects. Le Corbusier*

## BLUES AND BULLETS

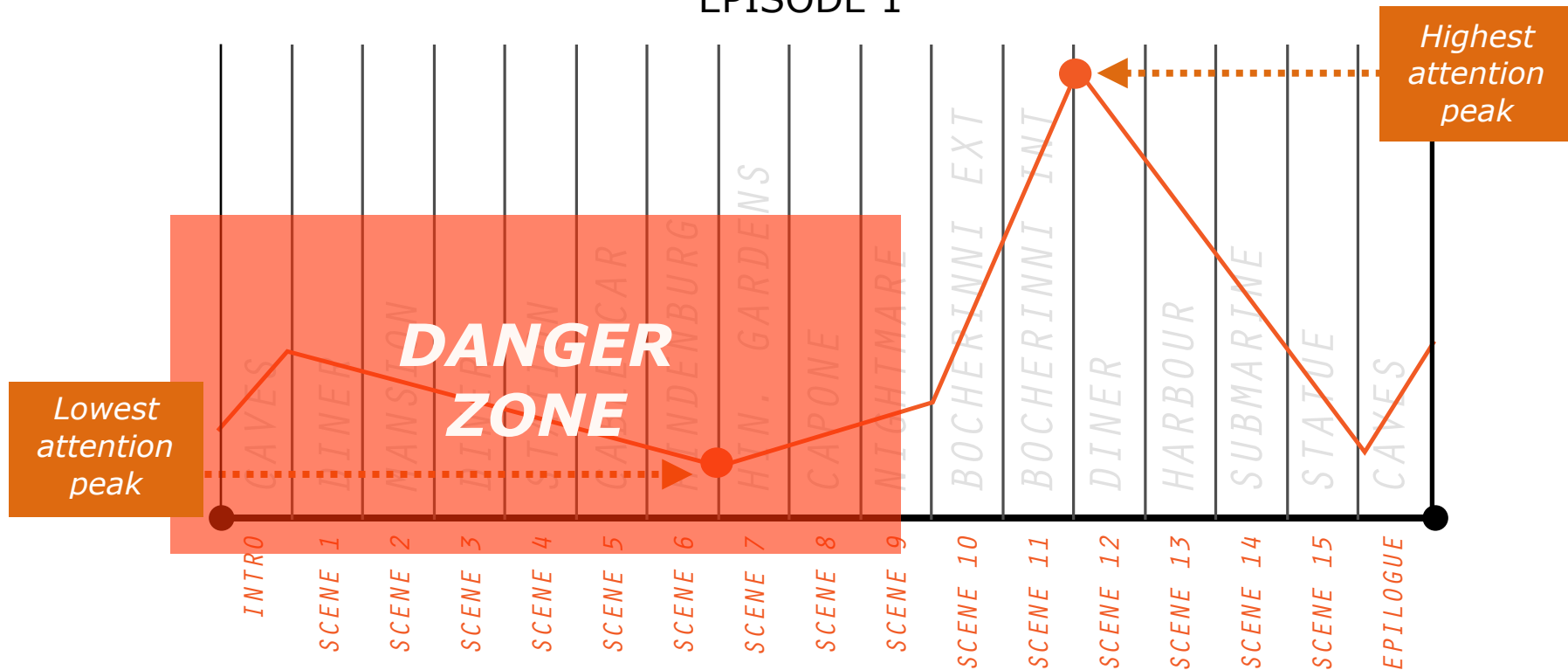
We have the tools to make a good Visual Rhythm but...

- **CAN WE KNOW THE RIGHT MOMENT TO BALANCE IT?  
DECREASING IT OR INCREASING IT??**

## THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

## EPISODE 1



# THE ATTENTION PYRAMID

## NARRATIVE RHYTHM

### EPISODE 1

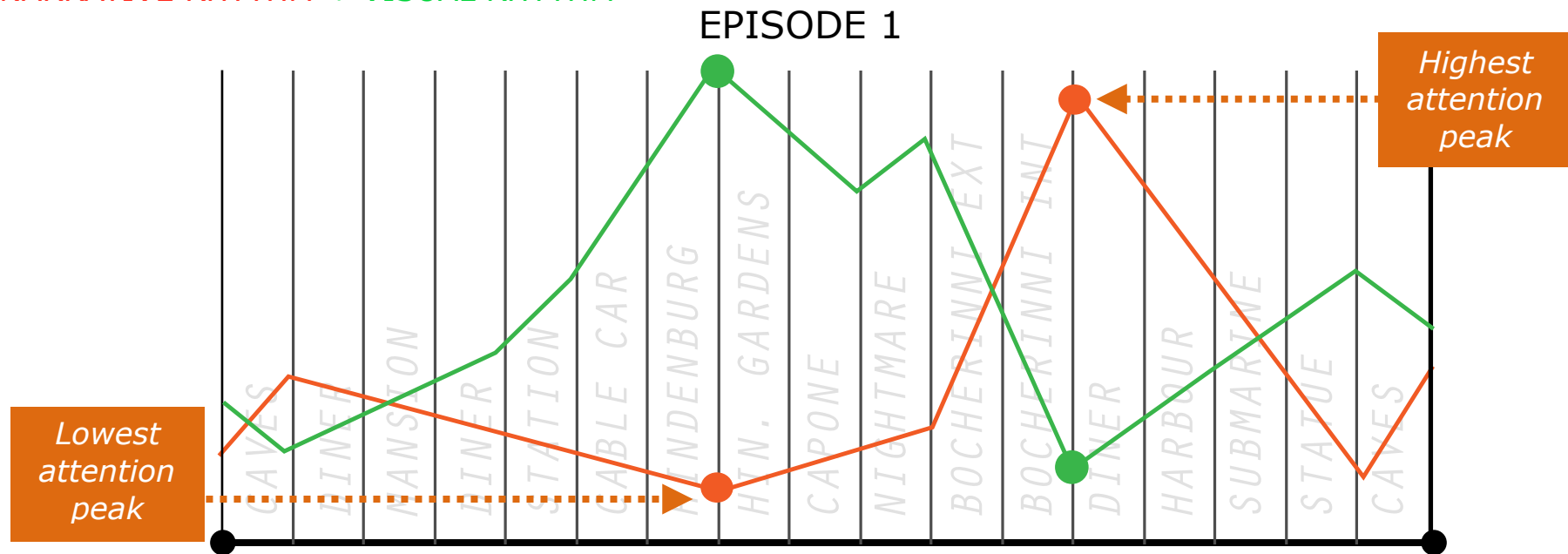


Thanks to the **Attention Pyramid** we're able to pinpoint when the player becomes more disconnected.



# THE ATTENTION PYRAMID

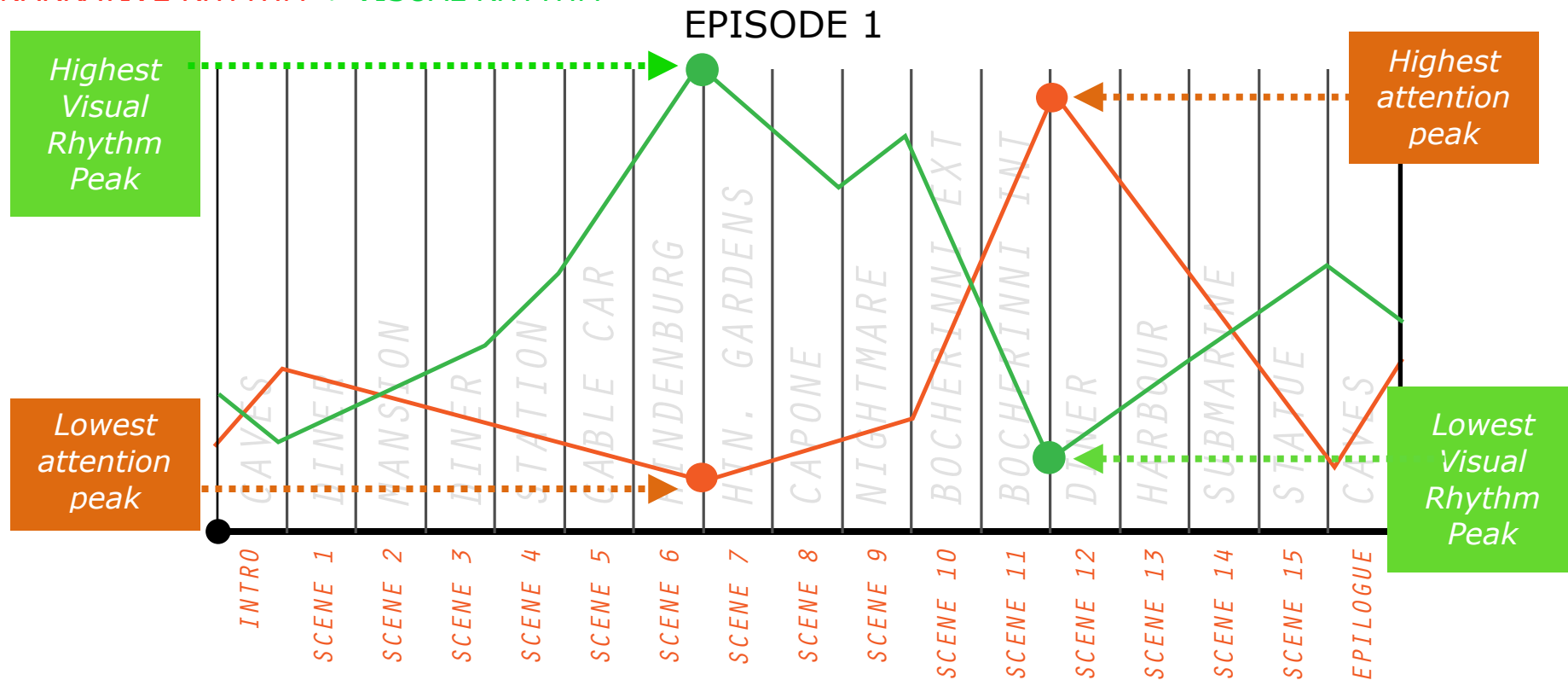
NARRATIVE RHYTHM + VISUAL RHYTHM



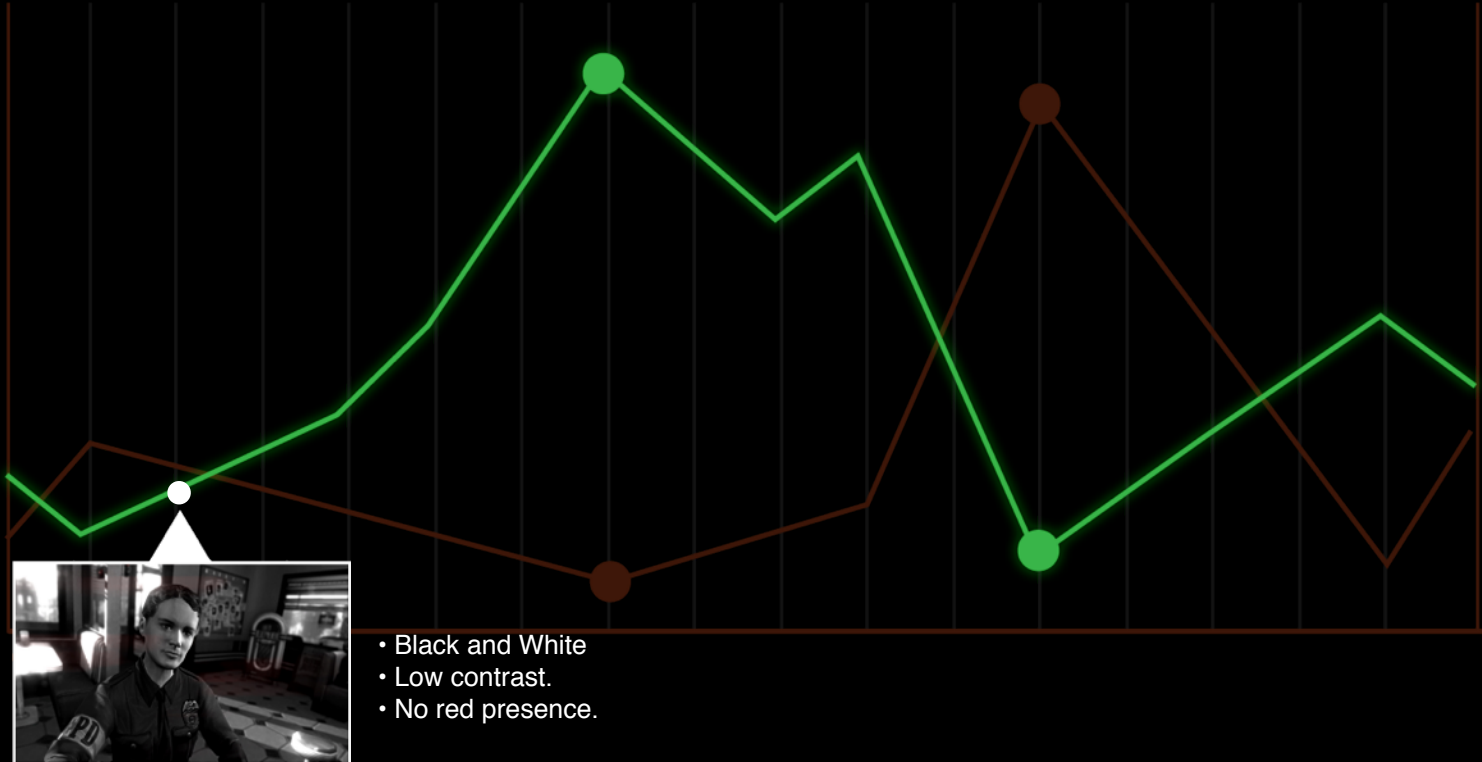
At those moments **we progressively boost the visual rhythm** in order to counteract that disconnection, so we create the suitable visual rhythm the game needs.

# THE ATTENTION PYRAMID

NARRATIVE RHYTHM + VISUAL RHYTHM



## VISUAL RHYTHM

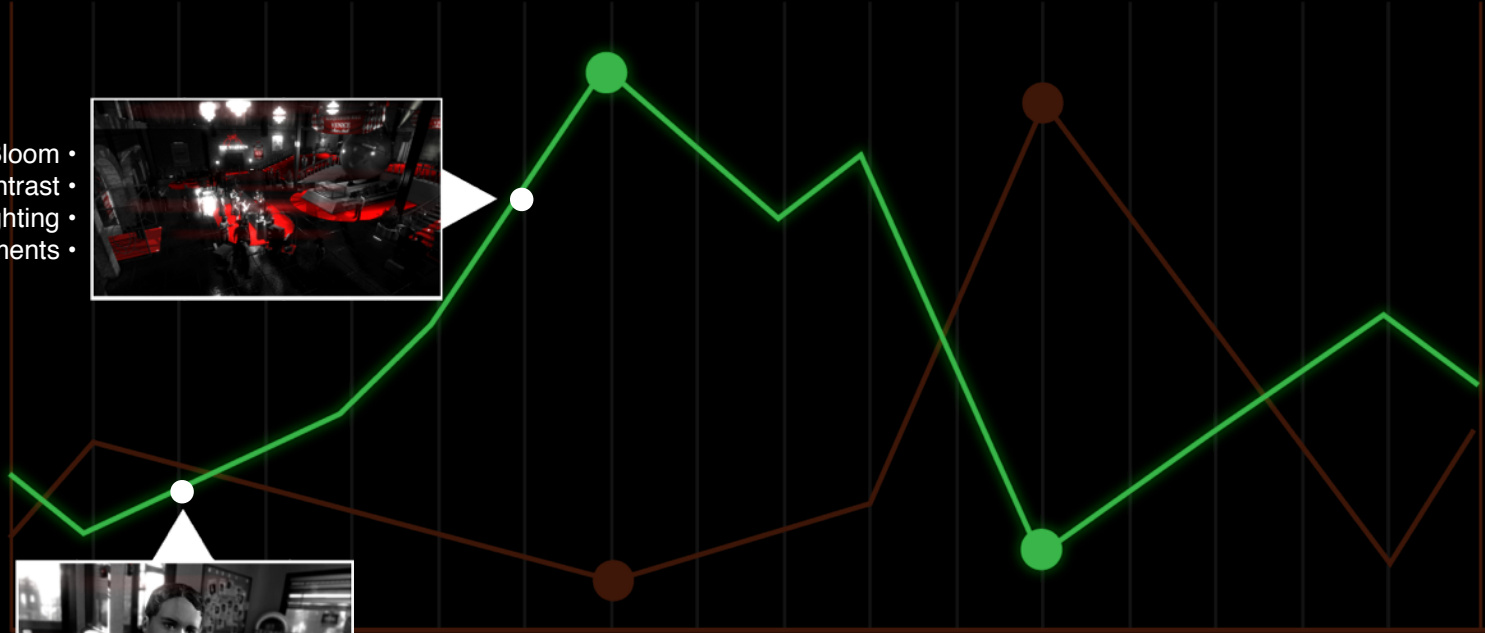


# VISUAL RHYTHM

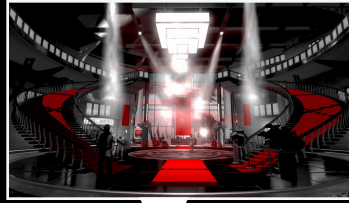
- B/W and Bloom
- High contrast
- Dramatic lighting
- Red elements



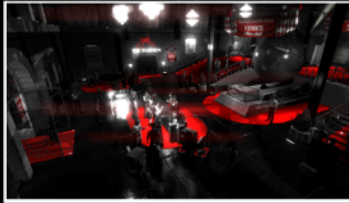
- Black and White
- Low contrast.
- No red presence.



## VISUAL RHYTHM



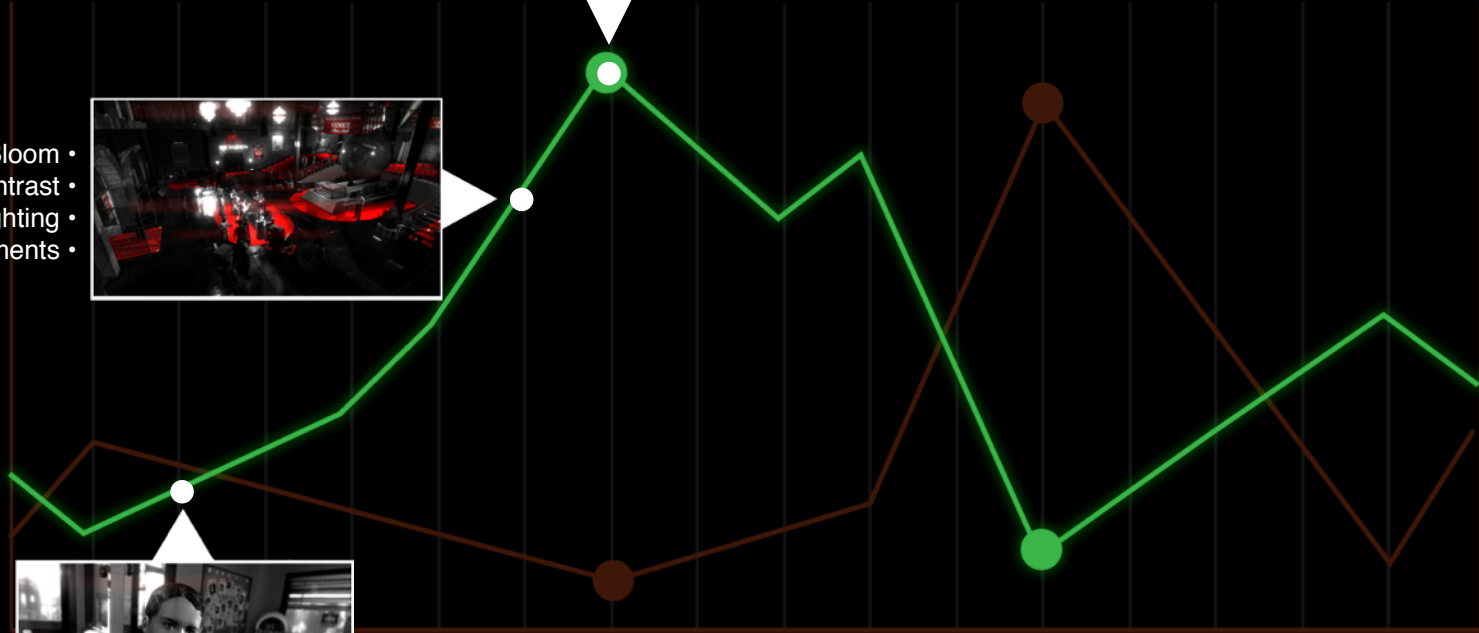
- B/W , Bloom, Dirtiness
- High contrast
- Dramatic lighting
- Red elements / Halo
- Symmetric Environment Design



- B/W and Bloom
- High contrast
- Dramatic lighting
- Red elements



- Black and White
- Low contrast.
- No red presence.

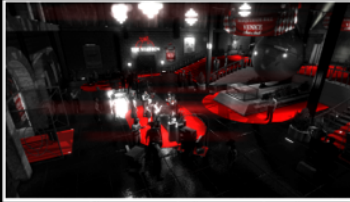




# VISUAL RHYTHM



- B/W , Bloom, Dirtiness
- High contrast
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- B/W and Bloom
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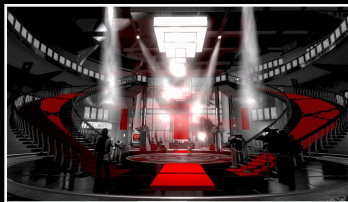


- B/W, Bloom
- Medium contrast
- Red Halo very subtle

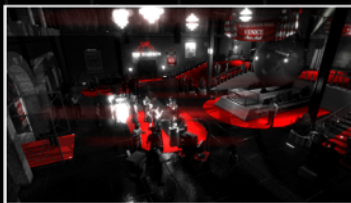


- Black and White
- Low contrast.
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# VISUAL RHYTHM



- B/W , Bloom, Dirtiness
- High contrast
- Dramatic lighting
- Red elements / Halo
- Symmetric Environment Design



- B/W and Bloom
- High contrast
- Dramatic lighting
- Red elements

- B/W, Bloom
- Medium contrast
- Red Halo very subtle



- Black and White
- Low contrast.
- No red presence.



- Black and White
- Low contrast.
- No red presence.

# Benefits of this approach

We can know **when to increase and decrease** the visual rhythm

We optimize the art team's workload by **knowing which scenes require a WOW factor** (more modeling work, lighting, details...) and which do not.

It aids us in **managing smartly our resources** (something very important if they are restricted... as they really are!)

**and more important...**

We keep the player interested with the help of **Narrative and Aesthetics working hand by hand.**

**NARRATIVE**



**AESTHETICS**



# **iOne last thing!**

This is the last I promise.



# iOne last thing!

This is the last I promise.

**IF YOU HAVE PROBLEMS TRYING TO FIND THE  
BEST VISUALS FOR YOUR GAME...**

# iOne last thing!

This is the last I promise.

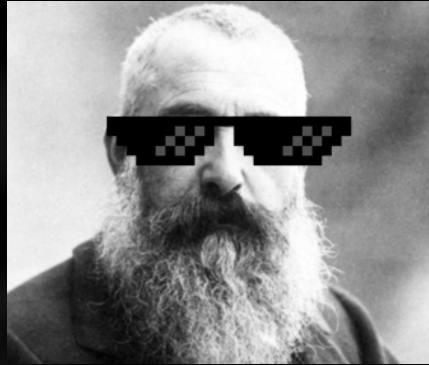
**ALWAYS GO BACK TO THE FUNDAMENTALS OF  
VISUAL ART AND DESIGN.**

**THEY PROBABLY FACED BACK THEN THE SAME  
ISSUES YOU ARE FACING RIGHT NOW...**

# iOne last thing!

This is the last I promise.

**THEY ALWAYS HAVE THE ANSWERS**



**Thank you!!**  
**dani@acrowdofmonsters.com**



**Elena Candil**

And thanks to Elena and Maria for their help with the creative process of Blues and Bullets and for the help with this talk.

**You're the best!**



**María Cabezuelo**