

GDC[®]

WALK TALL MY FRIENDS

Giving Life to AI-Buddies in FINAL FANTASY XV

Prasert “Sun” Prasertvithyakarn
FINAL FANTASY XV Lead Game Designer

Business Division

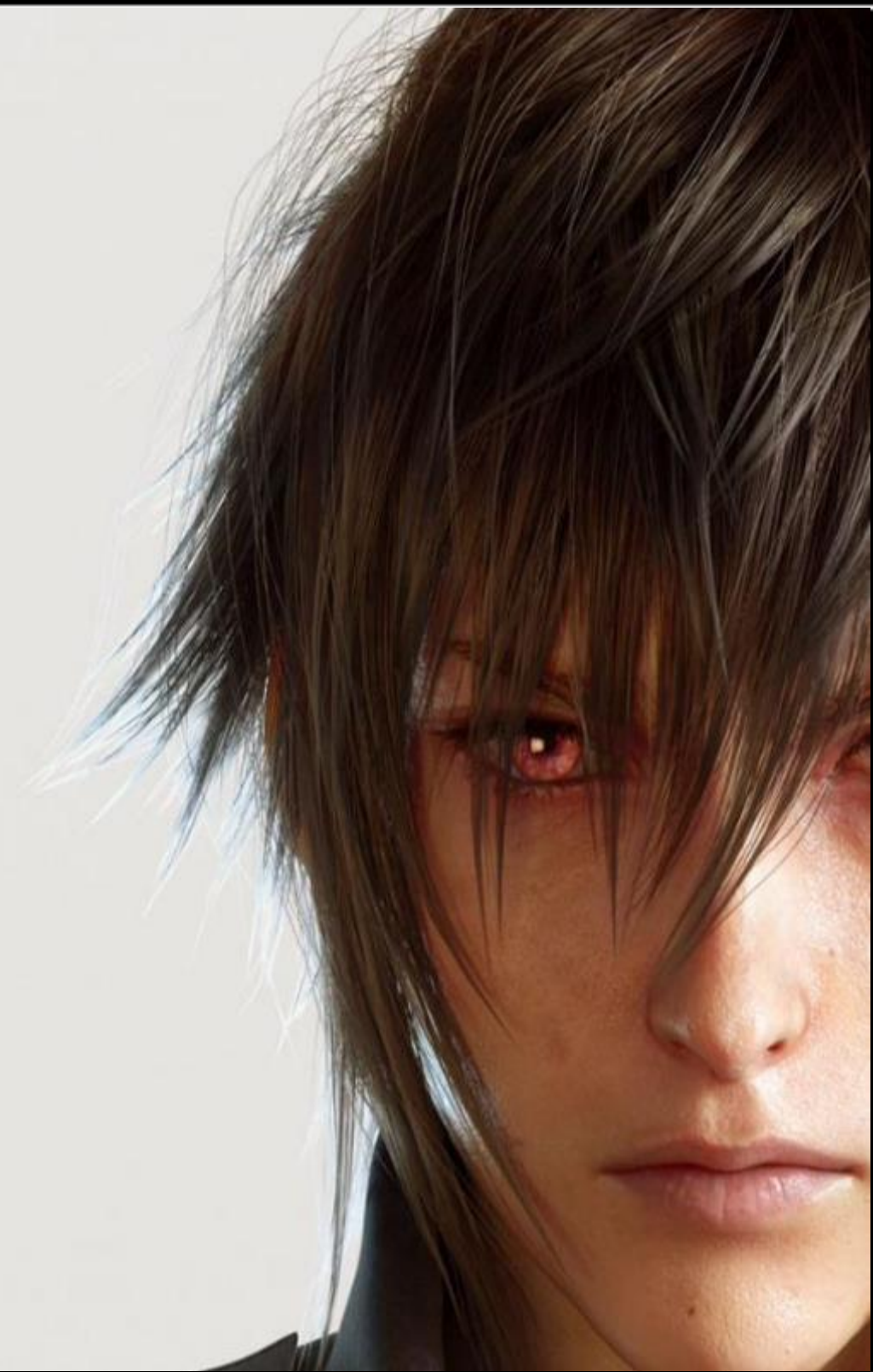
SQUARE ENIX[®]

2

GAME DEVELOPERS CONFERENCE[®] | MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18

UBM

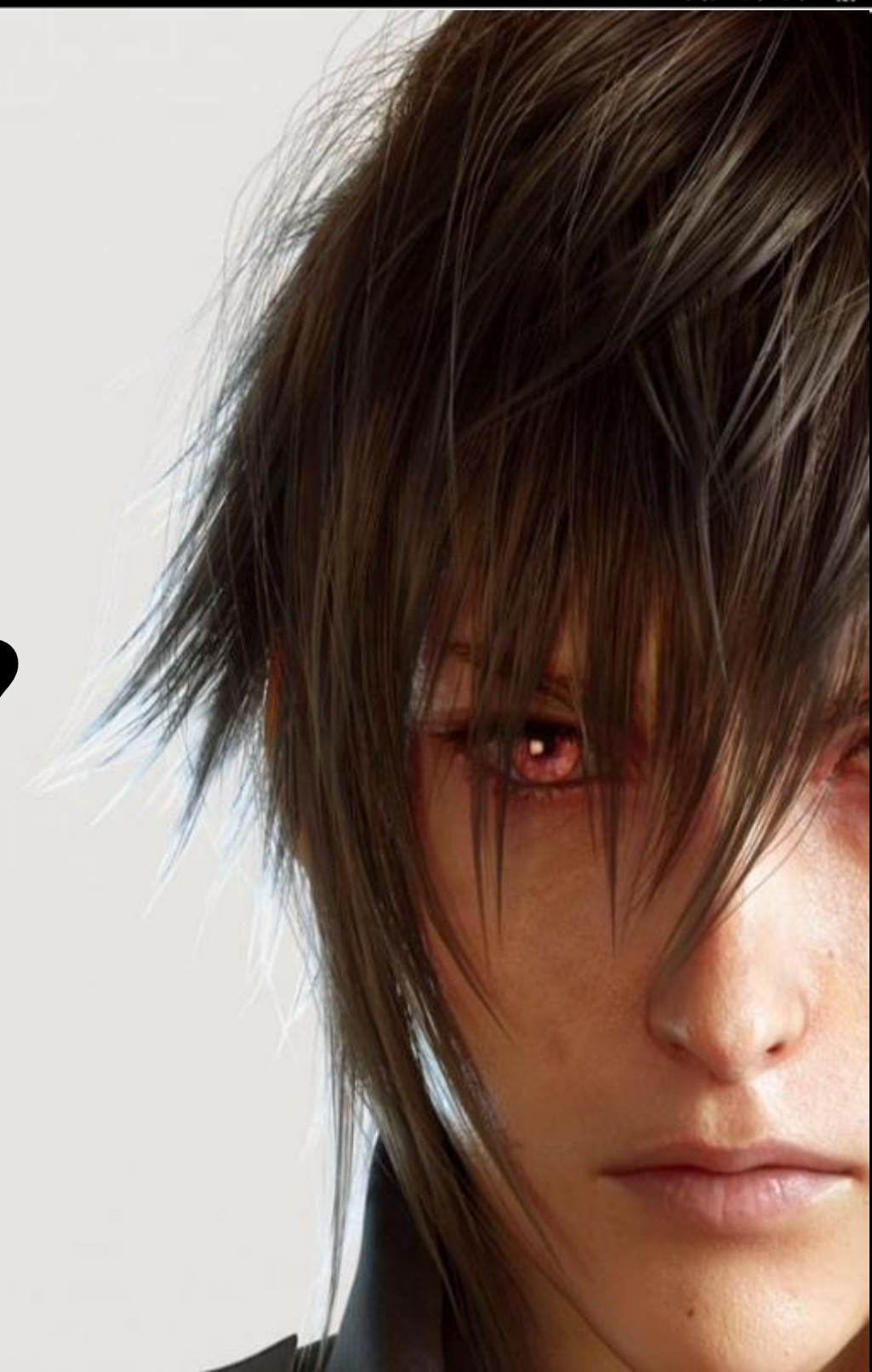
WHO IS IN CHARGE OF CHARACTER DESIGN?



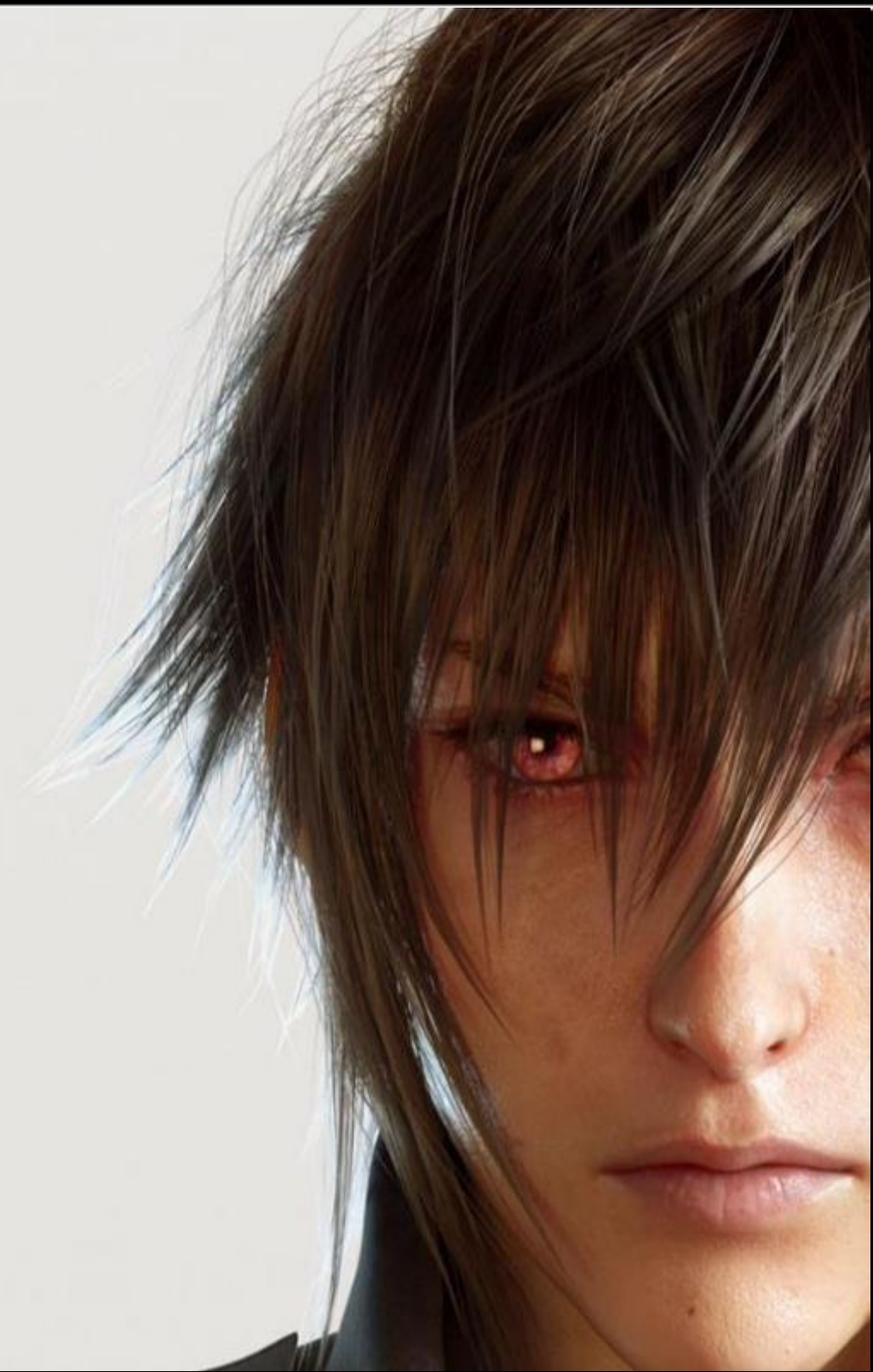
A character artist?

A character 3D modeler?

A scenario writer?



**There are new
other answers.**



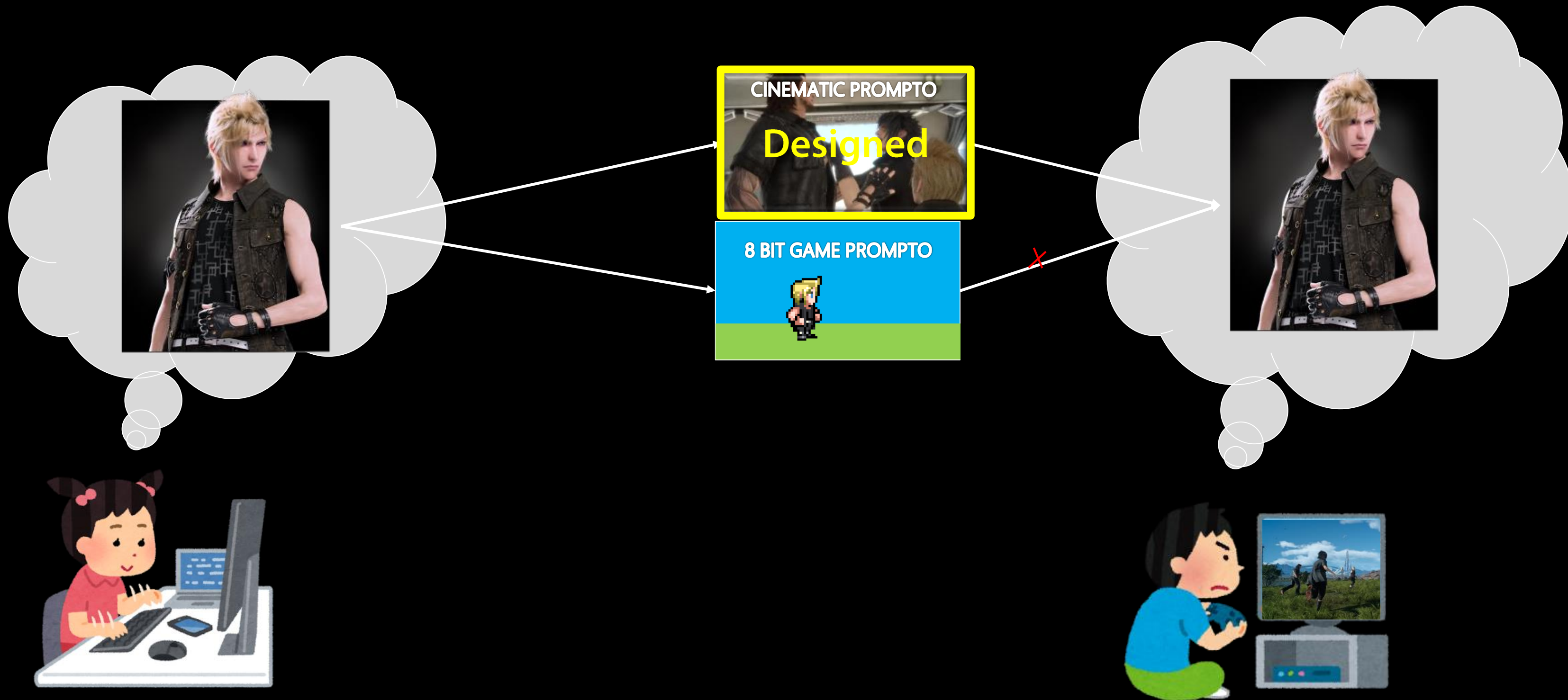
How do you experience a character?

FINAL FANTASY. XV
ファイナルファンタジー XV

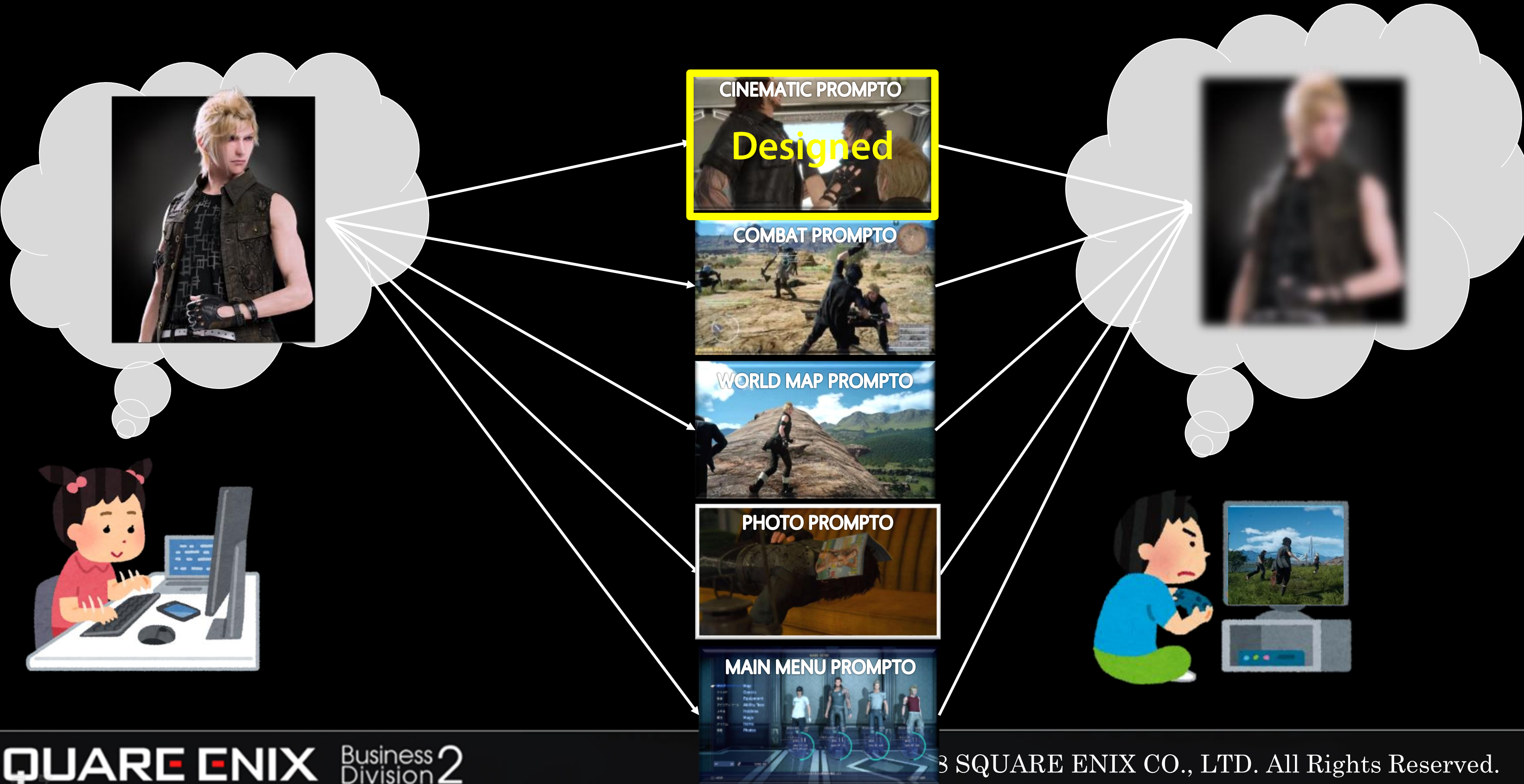


How do you experience a character?

FINAL FANTASY. XV
ファイナルファンタジー XV



How do you experience a character?



~~CHARACTER DESIGN~~

CHARACTER EXPERIENCE DESIGN

CX

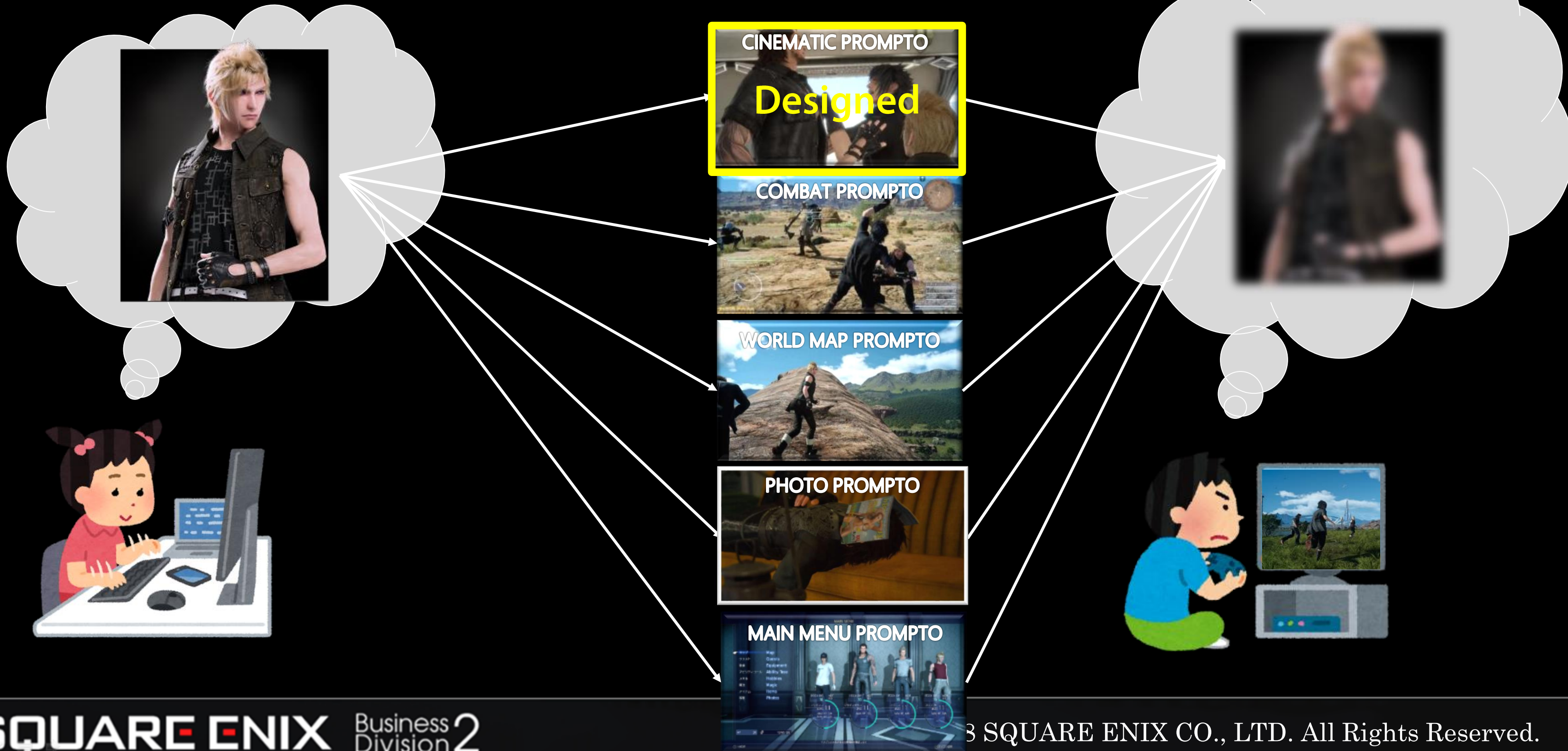
Character Experience

= An actual way the audience perceive character in media

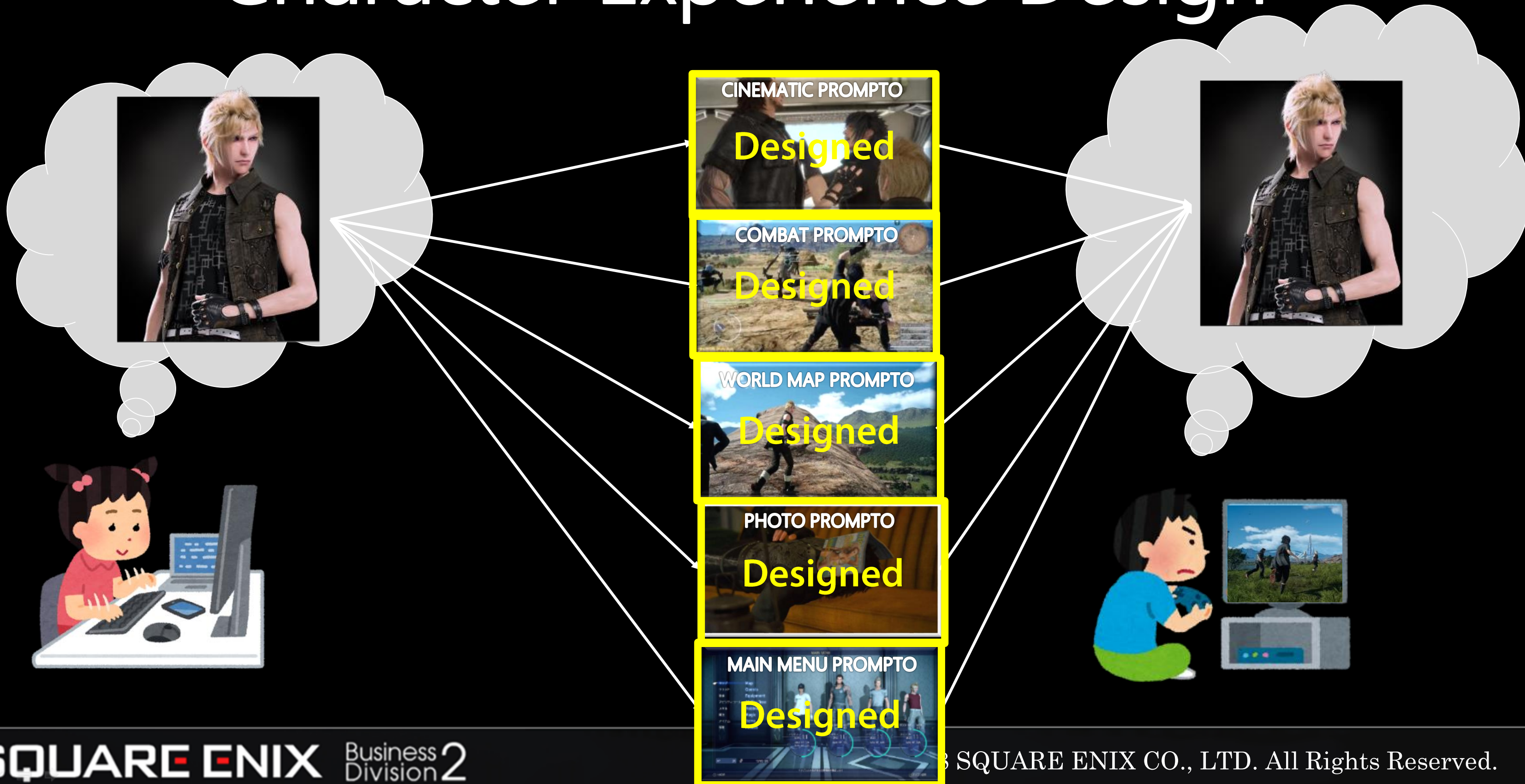
CX design emphasizes that the way the audience can engage characters in game has more depth and varieties than it used to be.

While we are blessed with more engaging storytelling approaches, we are taking the risks of ruining all the experience caused by a poor design.

Character Design



Character Experience Design



WALK TALL MY FRIENDS

Giving Life to AI-Buddies in FINAL FANTASY XV



Prasert "Sun" Prasertvithyakarn

FINAL FANTASY XV Lead Game Designer

Business Division

SQUARE ENIX®

2

Home country: Thailand
Graduated in music-related AI field.
Specialized in Emotional AI & Game Design



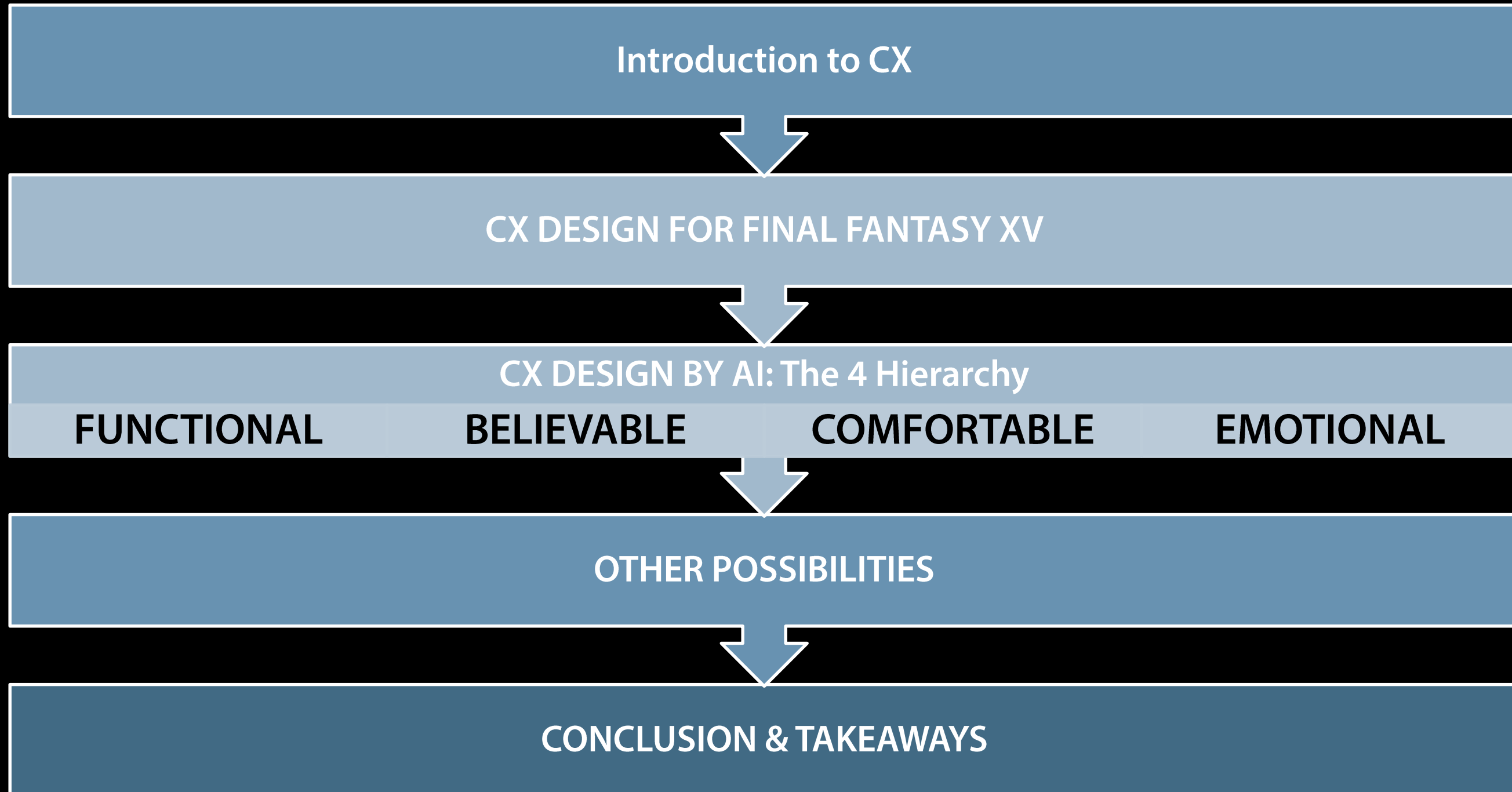


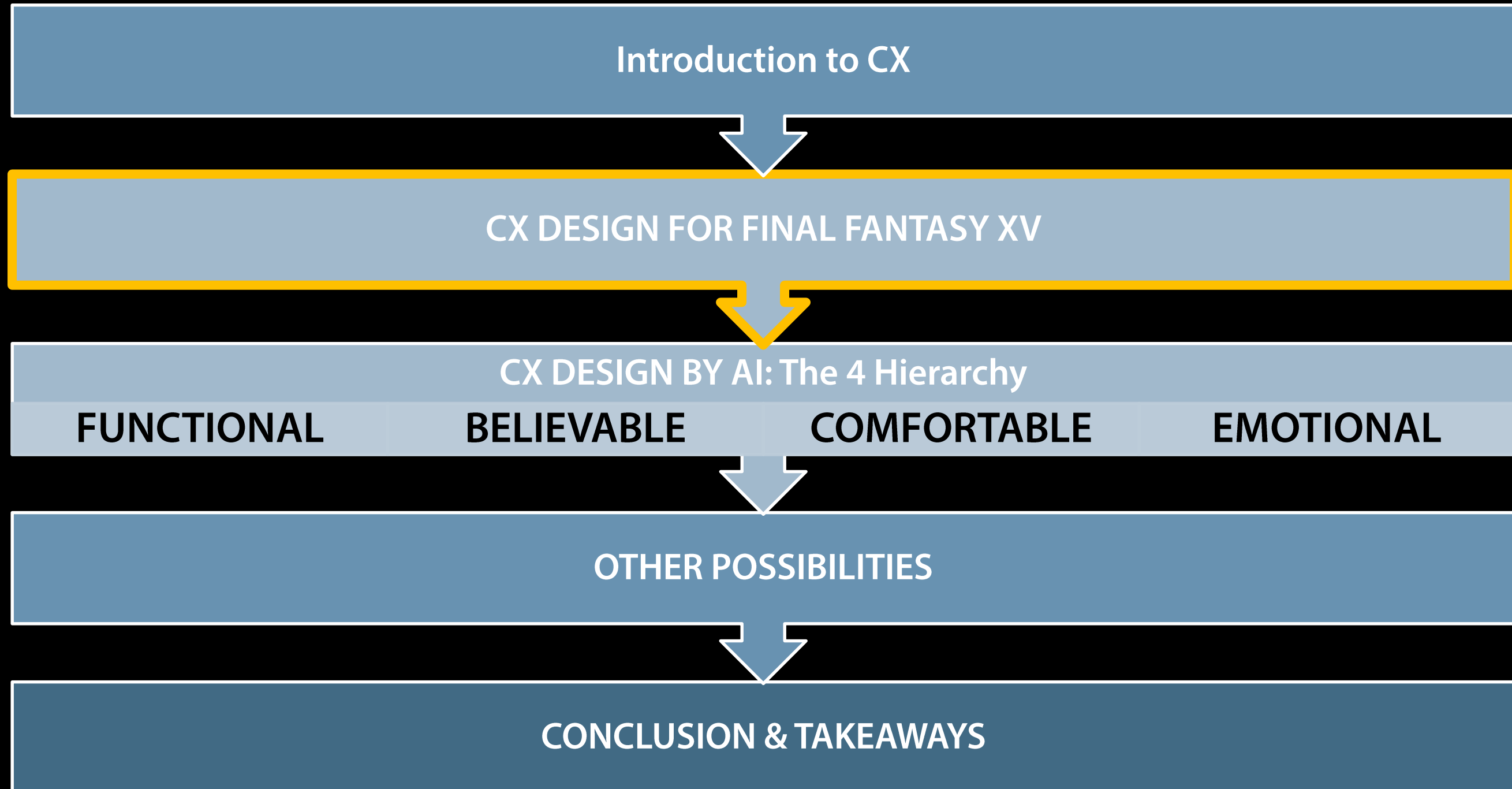
PROMPTO's FACEBOOK

How A Buddy-AI Auto-snapshots your Adventure In FFXV

WALK TALL MY FRIENDS

Giving Life to AI-Buddies in FINAL FANTASY XV





CX DESIGN FOR FINAL FANTASY XV

THE BEGINNING OF OUR JOURNEY

GLADIOLUS

NOCTIS

PROMPTO

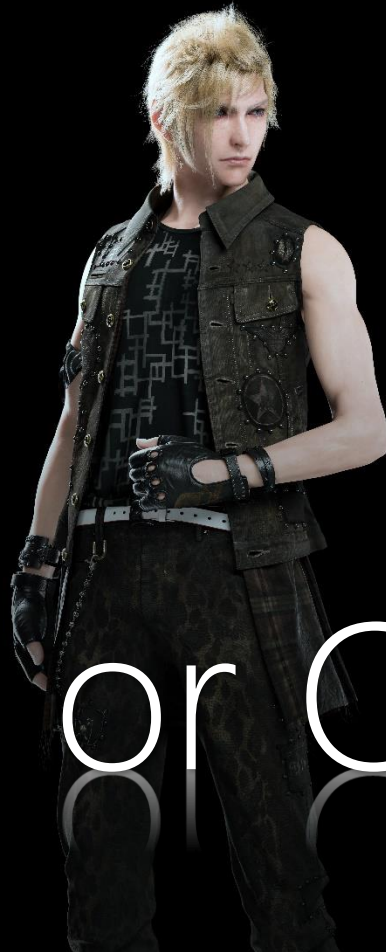
IGNIS

CX DESIGN FOR FINAL FANTASY SERIES: FELLOWSHIP



FINAL FANTASY XV

- First FINAL FANTASY party without a female characters.
- First FINAL FANTASY party without a newly joined member.



ADVERSITY? or OPPORTUNITY?

I say

OMG, this is a chance
for a brand new CX!



REMEMBER THE POPULAR GROUP IN YOUR HIGH SCHOOL?
BE THEM!

Fellowship to
Brotherhood!

What kind of brotherhood we are looking for?

Cool on the outside: Silly stuffs, fun stuffs, party!... Anything!



What kind of brotherhood we are looking for?

Cool on the outside: Silly stuffs, fun stuffs, party!... Anything
Cool on the inside: Strong bonds, trust, dedication.





BROTHERHOOD ROADTRIP

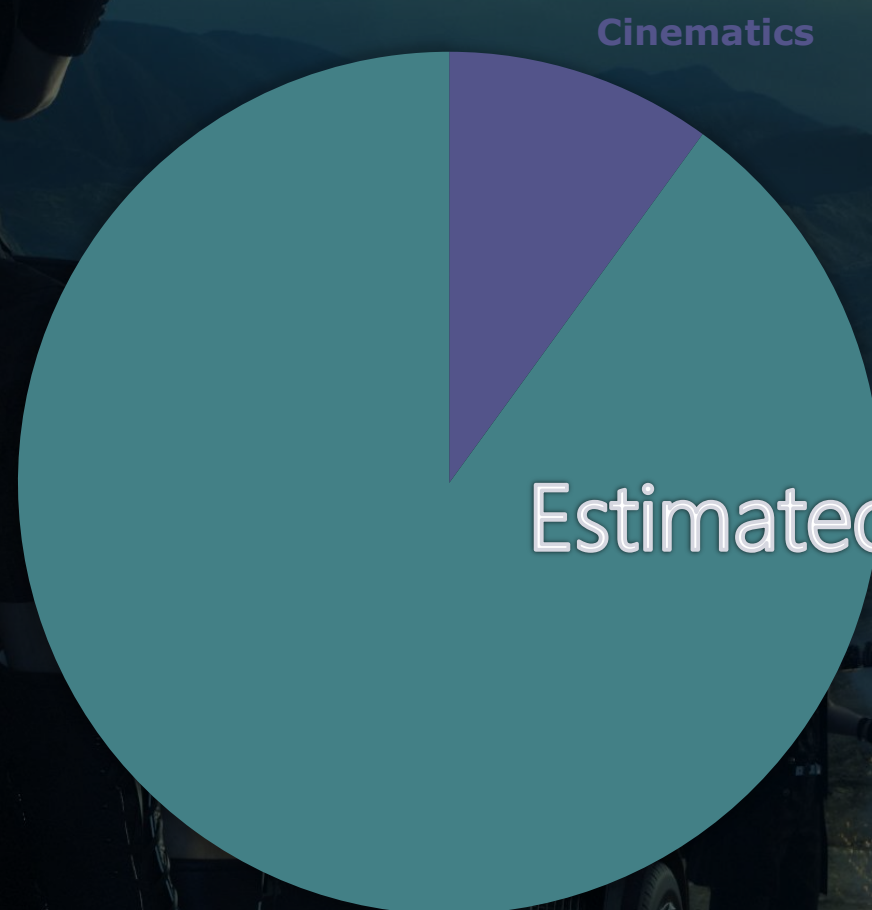
FINAL FANTASY XV's concept



YOU MEAN, LOTSA CINEMATICS?

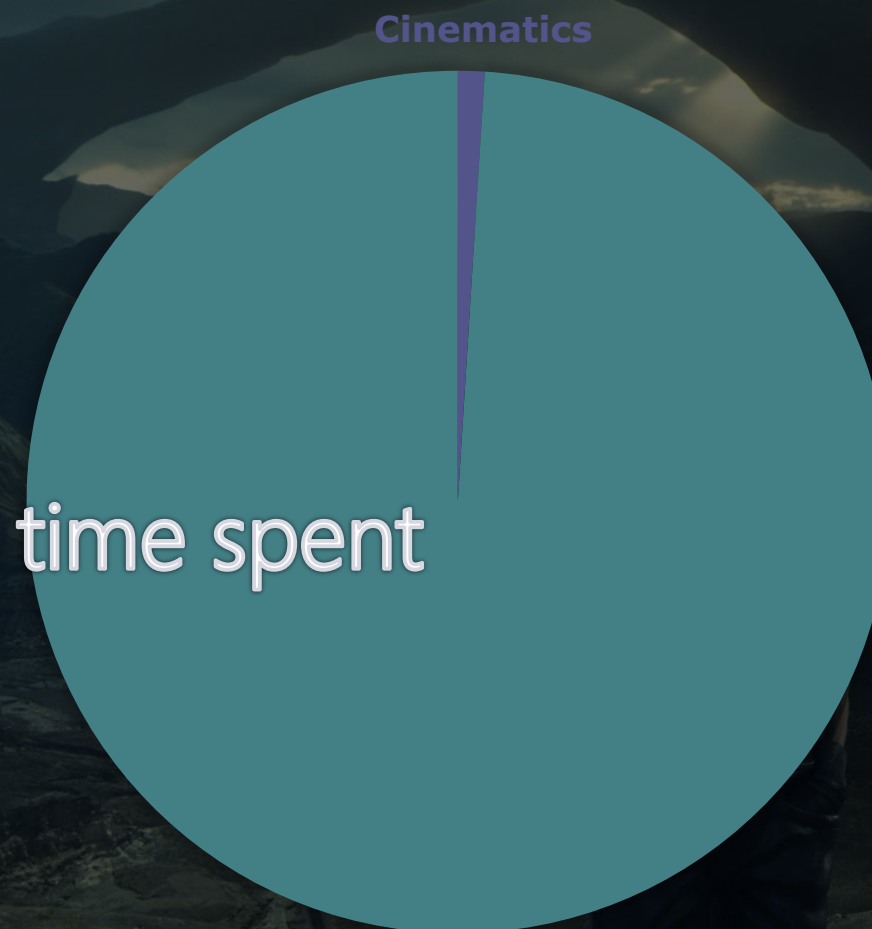
NO, NOT BY CINEMATICS!

LINEAR GAME



Realtime
gameplay

OPEN WORLD GAME



Realtime
gameplay

Estimated proportion of time spent



Cinematics

Real Time Level Event!

Our First Test:

Just try to having them moving together with the player character



SENSE OF BELONGING



Our Second Test:

Do we really need an event? How do we define event?





Cinematics

Real Time Level Event!

Real Time Behavior (AI)

THE ART OF NOT SAYING IT OUT LOUD



“ A NARRATIVE CAN BE ESTABLISHED
THROUGH WHAT IS LEFT UNSAID
RATHER THAN WHAT IS EXPLICITLY STATED ”

YINTING HE, 2018





BUDDY SYSTEM & AI

A TEAM EXCLUSIVELY FOR CX

FFXV'S BROTHERHOOD CONCEPT

WHERE YOU BELONG

Each buddy in the gang should be full of **charms**, yet **believable as a human being**. Their **uniqueness** and **distance in relationship** will create the chemicals that will add **drama** to the whole journey experience.

They should convince you that they are real,
Make you feel **fun, safe and strong** when they are with you.
Leaving you **weak and lonely** when they are not around.

Alive as a "group", they will invite you in as the 5th buddy, to be a part of them, proposing **a place where you want to come back to**, arousing your **desire to spend more time together** with them.

THE PROCESS OF CX DESIGN

DON'T STOP AT CHARACTER SETTING

BIOGRAPHICAL INFORMATION	
AGE	20 ^[1] (born October 25th) ^[2]
AFFILIATION	Lucis
(S)	
PHYSICAL DESCRIPTION	
RACE	Human
GENDER	Male
HEIGHT	173 cm (5'8") ^[3]
HAIR COLOR	Blond
EYE COLOR	Blue
GAMEPLAY DETAILS	
TYPE	Player character
WEAPON	Firearms, Machinery Signature weapons: Handgun, Lion Heart



CHARM DESIGN

**CAN YOU EXPLAIN THE REASONS
WHY THE PLAYERS ARE GOING TO
LIKE YOUR CHARACTERS?**

OUR CHARM DESIGN TECHNIC STEREOTYPE + 2



CHARM DESIGN by 3 Keywords

(Stereotype + 2)

Charm Design (Prompto)

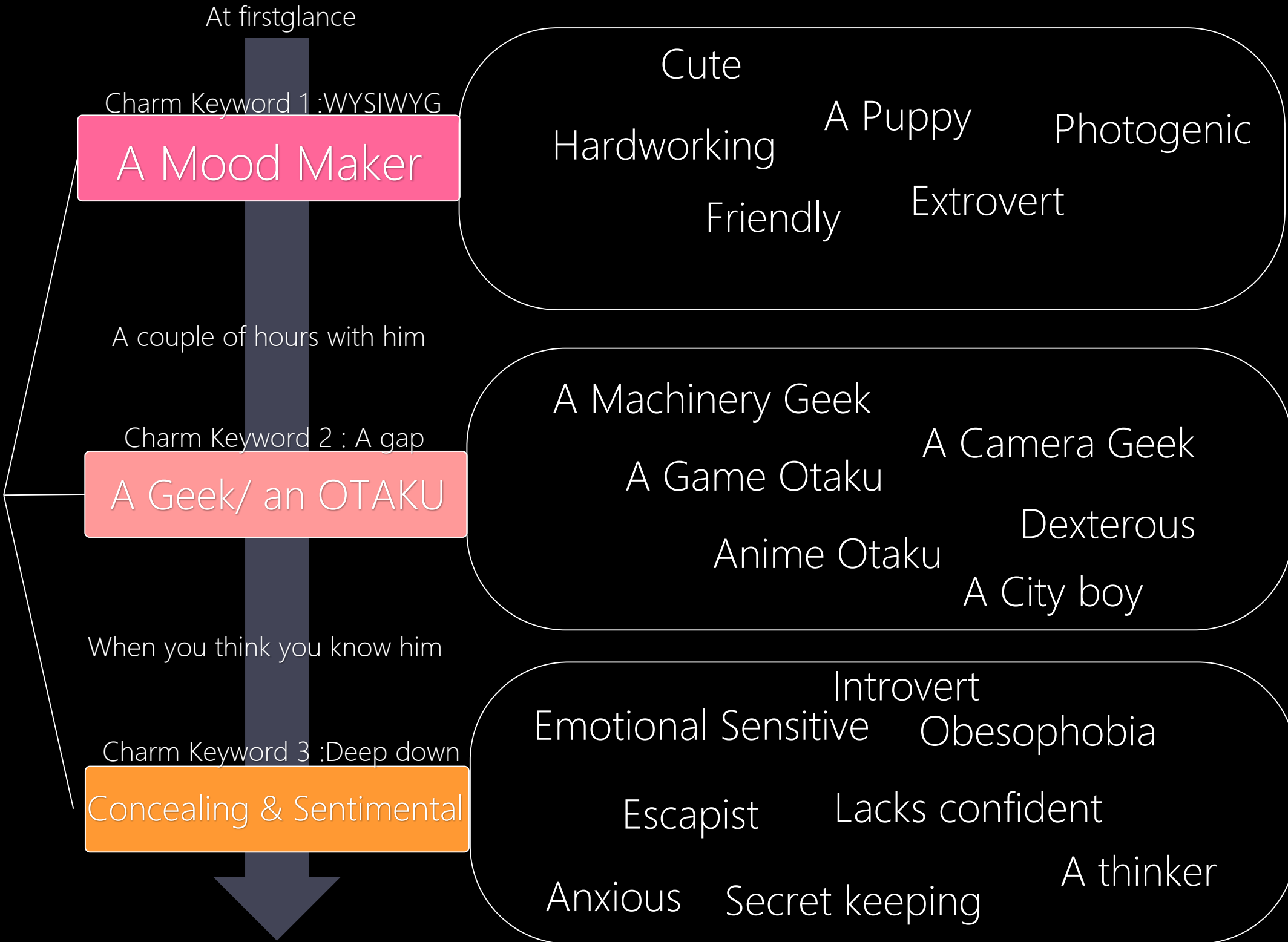
Wrong
Keyword Lists

A Happy go lucky

A Playboy

A Goof





CHANGE KEYWORDS into FEATURES

Charm Design (Prompto)

Wrong Keyword Lists

- A Happy go lucky
- A Playboy
- A Goof



At first glance

Charm Keyword 1 :WYSIWYG

A Mood Maker

- Running and jumping around in the combat.
- Sings a victory fanfare times to times
- Show his affection to chocobo every time he can
- Selfies a lot and ask everyone to do it
- Secretly do training times to times.

A couple of hours with him

Charm Keyword 2 : A gap

A Geek/ an OTAKU

- Using machine and guns in battle.
- Links everything along the journey to game.
- Always whine about outdoor life, camping getting dirty.
- Always having his camera by his side.

When you think you know him

Charm Keyword 3 :Deep down

Concealing & Sentimental

- Afraid of eating late (an gain weight)
- Sometimes just standing and staring at the sky alone.
- In times of trouble takes leadership
- Conceals his worries that he are not worth travelling along
- Conceals his birth and his past.

Congratulations!

You've learned the true Prompto
Now you're his BFF



FIND CHANNELS to ACTUALIZE FEATURES

Charm Design (Prompto)

Charm Keyword 1: WYSIWYG

A Mood Maker

- Running and jumping around in the combat.
- Sings a victory fanfare times to times
- Show his affection to chocobo every time he can
- Selfies a lot and ask everyone to do it
- Secretly do training times to times.

A couple of hours with him

Charm Keyword 2 : A gap

A Geek/ an OTAKU

- Using machine and guns in battle.
- Links everything along the journey to game.
- Play games whenever he has a chance
- Always whine about outdoor life, camping getting dirty.
- Always having his camera by his side.

When you think you know him

Charm Keyword 3 : Deep down

Concealing & Sentimental

- Afraid of eating late (an gain weight)
- Sometimes just standing and staring at the sky alone.
- In times of trouble takes leadership
- Conceals his worries that he are not worth travelling along with.
- Conceals his birth and his past.



Photo system & Photo AI



Camp System & Camp Scene



Real time combat



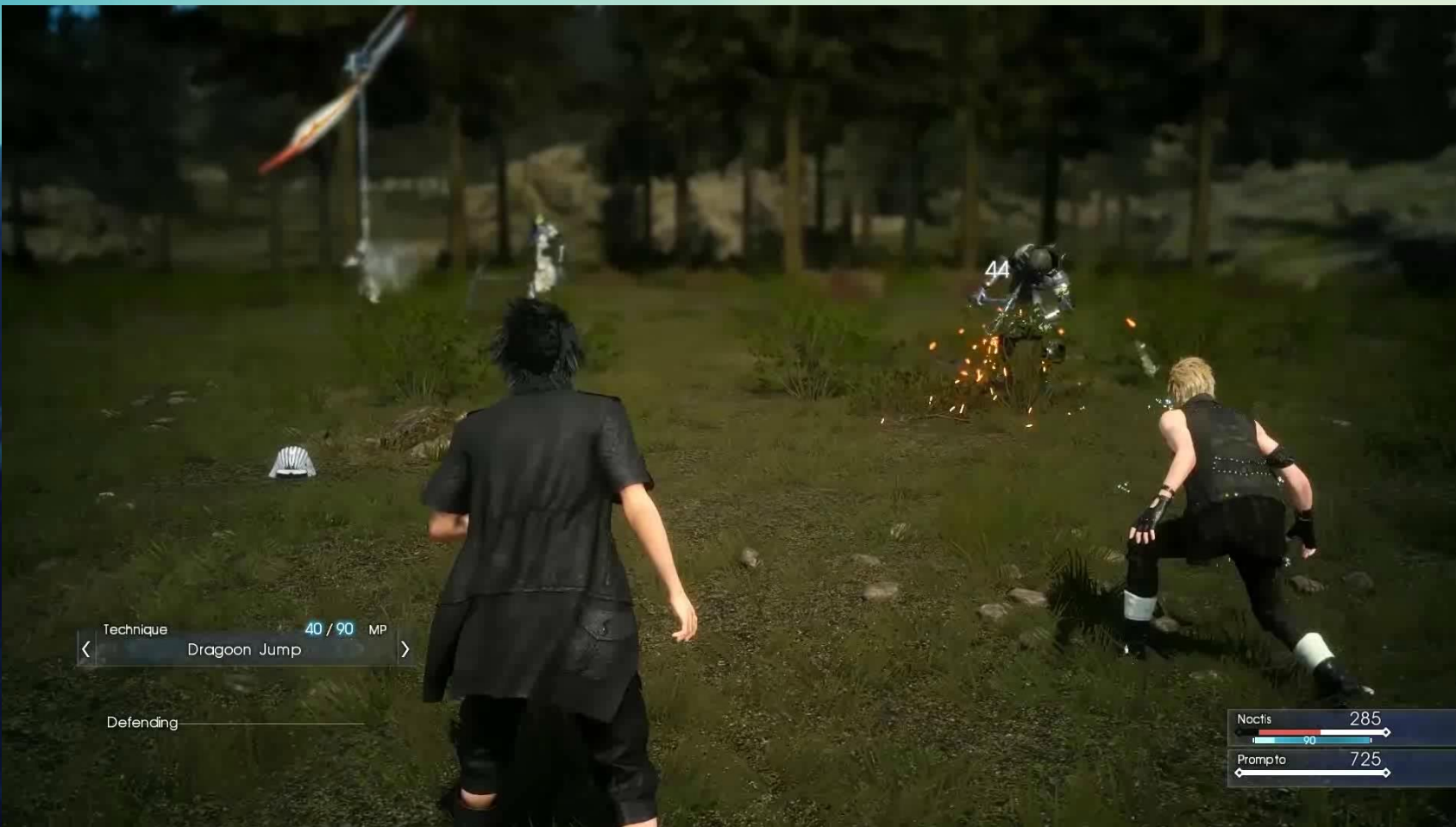
Real time Non combat

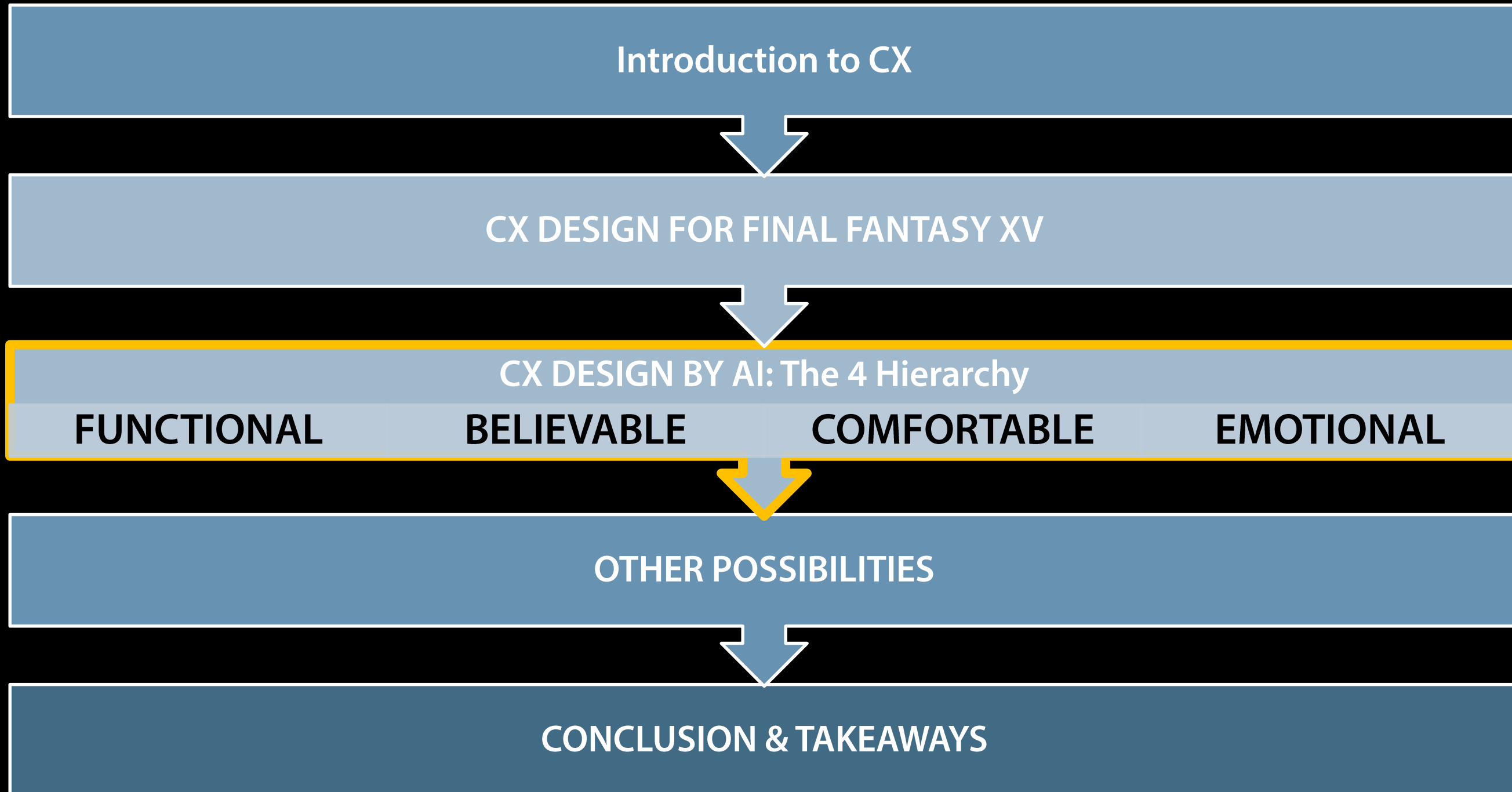


Cinematics

Let the AI tell you the story

Prompto is hyper-active and lively!





CX DESIGN BY AI

4 Hierarchy of properties for engaging buddy-AI



4 HIERARCHY OF PROPERTIES FOR ENGAGING BUDDY-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?

1. ARE THEY FUNCTIONAL ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



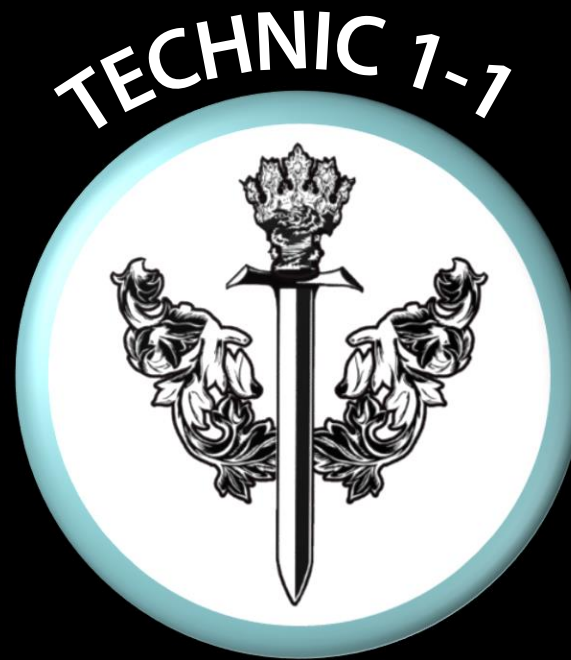
2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?

FUNCTIONAL VALUE vs EMOTIONAL VALUE

You mean to make the buddy-AI strong?



WISELY VISUALIZE THEIR FUNCTIONAL VALUE

Make a Good Use of Game Design Approach

WISELY VISUALIZE THEIR FUNCTIONAL VALUE

Make a Good Use of Game Design Approach



Link them to a system/ feature.
Or create a new system for them!

2. ARE THEY BELIEVABLE ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?



DO NOT INTERRUPT THE MAGIC SHOW

Never Ever Allow Any Chances to Remind the Players They're Just a Doll

C'MON IT'S JUST A GAME CHARACTER

DO NOT INTERRUPT THE MAGIC SHOW

Never Ever Allow Any Chances to Remind the Players They're Just a Doll

Wrong: We have no costs for implementation



Right: How would a real human react?





DO NOT OPTIMIZE ANIMATIONS

USELESS ANIMATIONS ARE VALUABLE WHEN PLAYED AT THE RIGHT TIME

ARTIFICIAL USELESSNESS

Focus More on the Approach, Not Only the Outcome



THE LINK WITH THE WORLD

Use character to express the world. Use the world to create character.



20 SECONDS ANIMATION

A New Approach to Smooth Character Animation

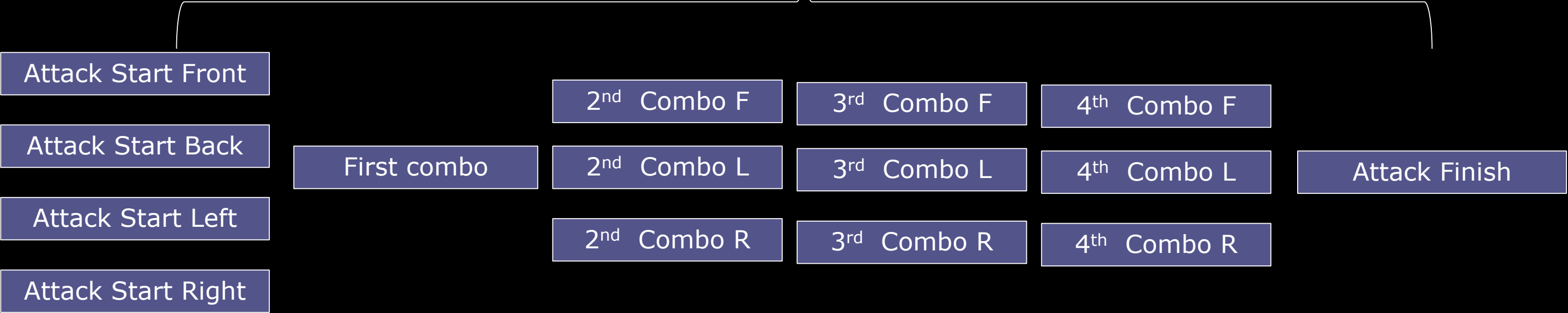


20 SECONDS ANIMATION

A New Approach to Smooth Character Animation

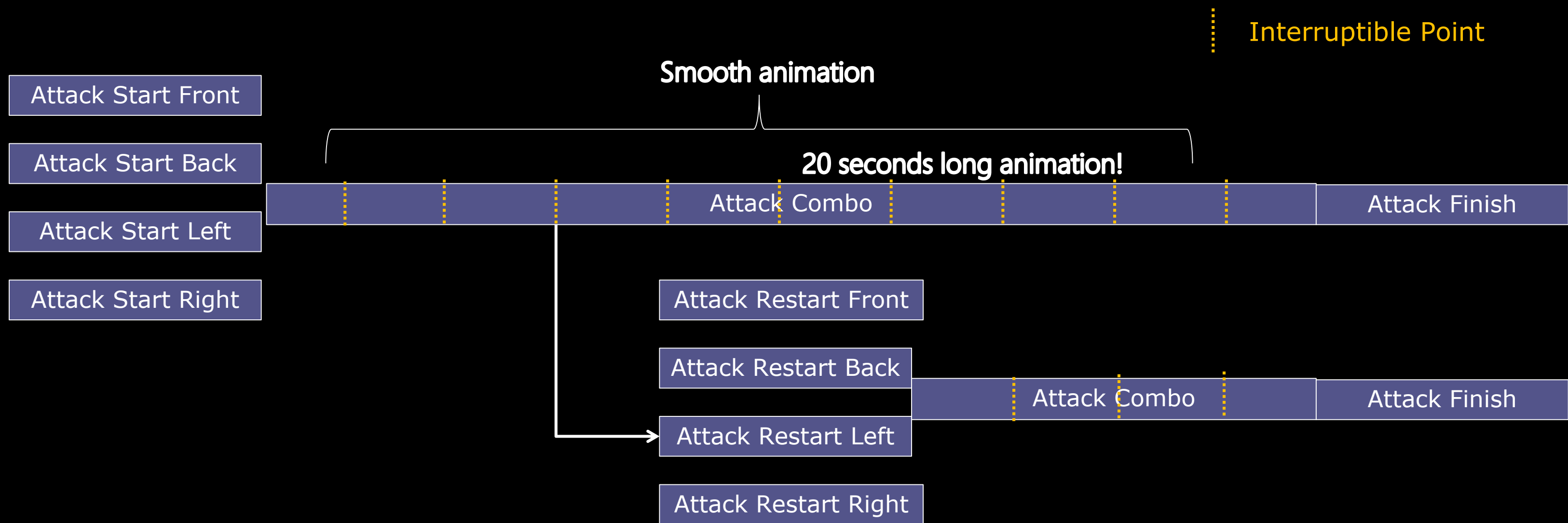
A Classic approach

unsmooth animation



20 SECONDS ANIMATION

A New Approach to Smooth Character Animation



20 SECONDS ANIMATION

A New Approach to Smooth Character Animation



3. ARE THEY COMFORTABLE ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?

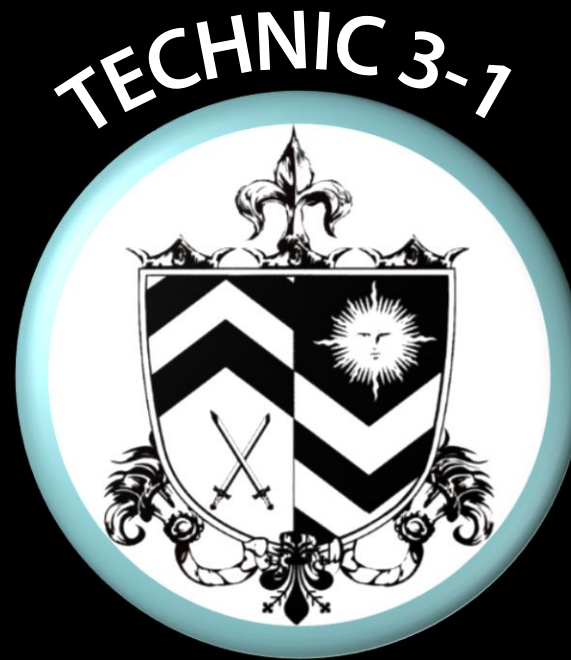


1. ARE THEY FUNCTIONAL ?

EMOTIONAL VALUE vs FUNCTIONAL VALUE

The Reason We Have Friends





KEEP THE RIGHT DISTANCE

ENSURE PHYSICAL AND MENTAL COMFORTABILITY

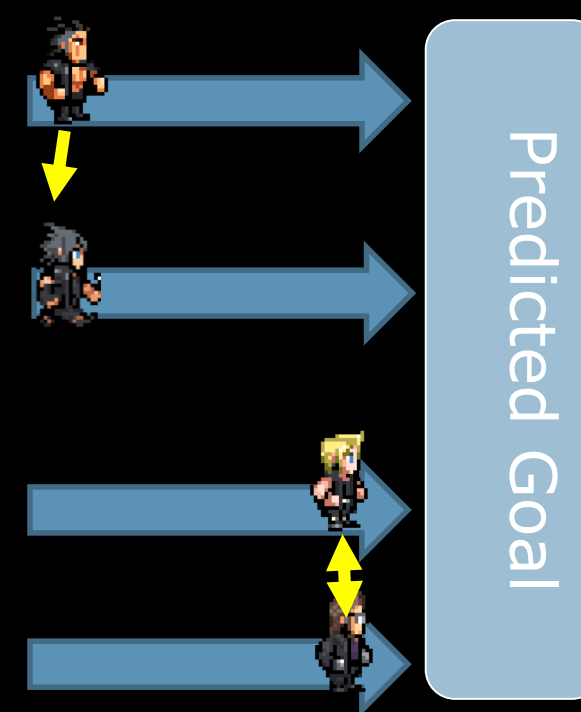
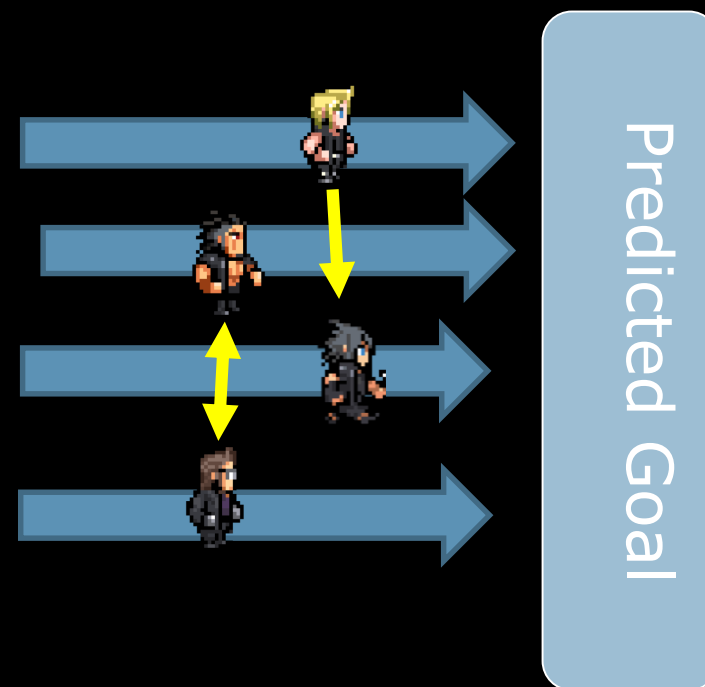
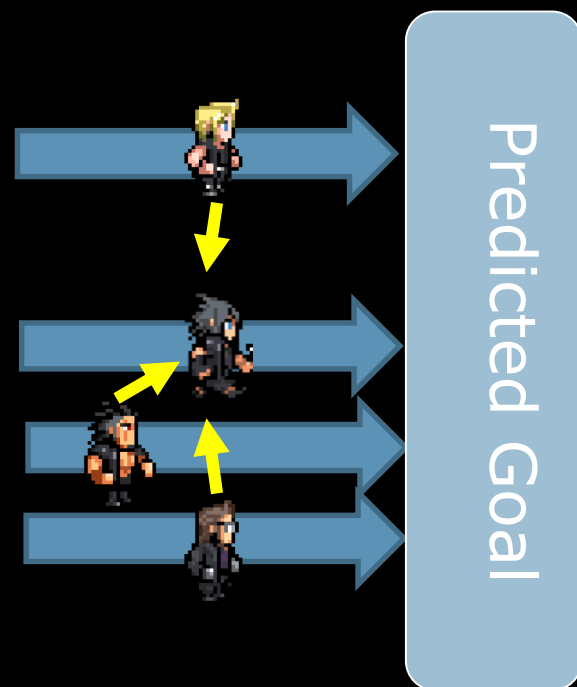
WALKING TOGETHER

Invest in Sense of Belonging



WALKING TOGETHER

Invest in Sense of Belonging



Who I want to be with



CONSCIOUSNESS SIMULATION

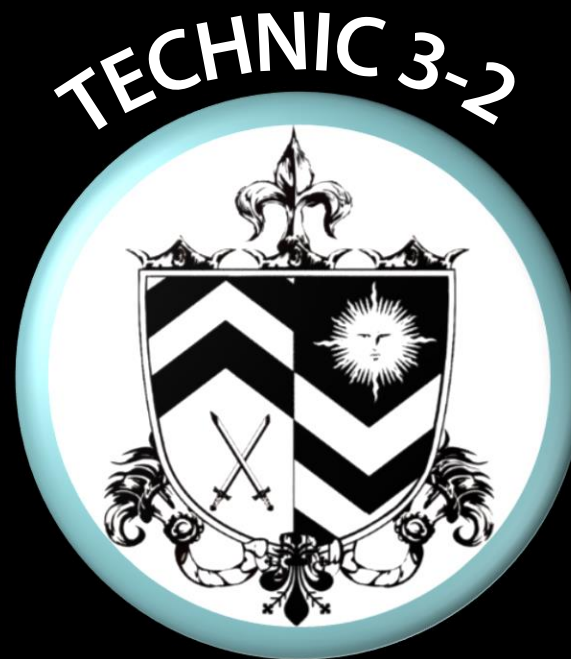
WHAT ARE YOU THINKING?



MAKE SURE THE PLAYER IS SEEN

MAKE SURE THE PLAYER IS CARED





INVEST IN VOICE

WORDS SPEAK LOUDER THAN ACTIONS

INVEST IN VOICE

Words Speak Louder than Action

Make them noisy



Say what human should say:
Greeting/ Gratitude/ Apologize



EVER PLAYED AN RPG AT YOUR FRIEND'S ?

Utilizing Experience Synchronization & Information Sharing

Synchronize experience

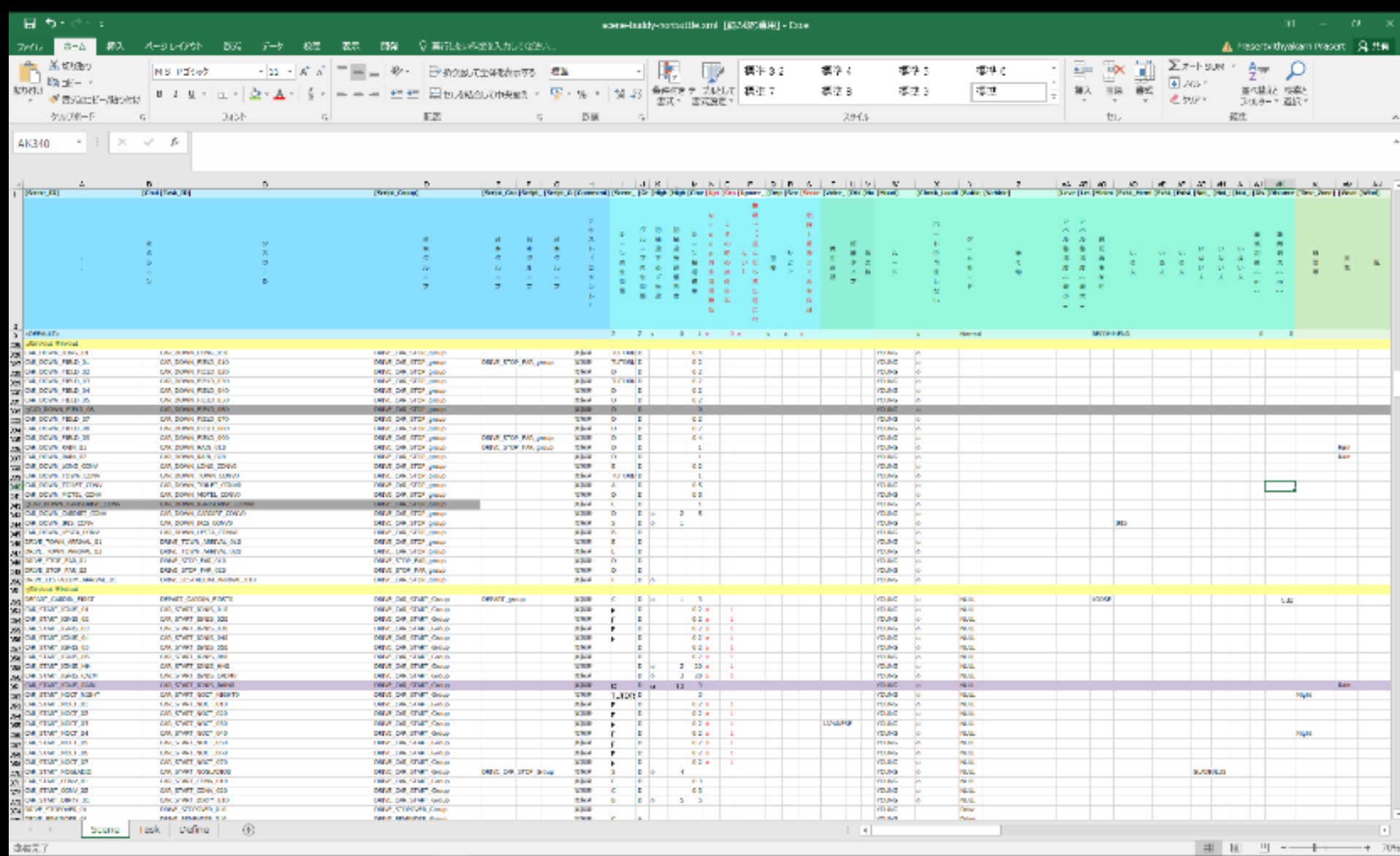


Share information



INTRODUCTION TO “DI-PHONE”

Choosing the Right Conversation to Play



The screenshot displays a spreadsheet application window titled "scene-looky-sceneeditboard [007407の編集] - Excel". The interface includes a ribbon with tabs like "ファイル", "ホーム", "挿入", "ページレイアウト", "参照", "データ", "送信", "表示", "開発", and "ツール". The main area contains a large table with columns labeled with names like "Name", "Field", "Type", "Value", and "Comment". The table is divided into several sections, each with a yellow header row. The data is organized into rows, with some cells containing text and others containing numerical values. The table is color-coded with blue, green, and yellow backgrounds for different sections. The bottom status bar shows "セルが完了" and "70%".

INTRODUCTION TO “DI-PHONE”

Balancing Conversation Amount



PEOPLE WILL TALK ANY TIME ANYWAY

Don't Let the Animation Constraints Prevent You From Playing the Conversation

While standing



While walking



Same conversation results in different animation in different situation. It won't stop the player from playing the game.

PEOPLE WILL TALK ANY TIME ANYWAY

Don't Let the Animation Constraints Prevent You From Playing the Conversation

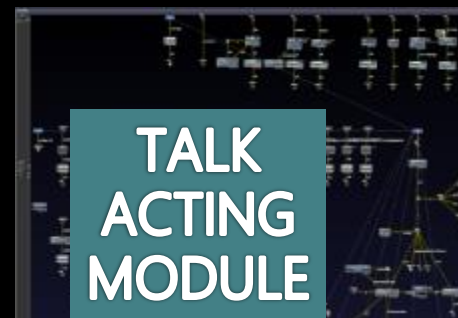
Normal MODE



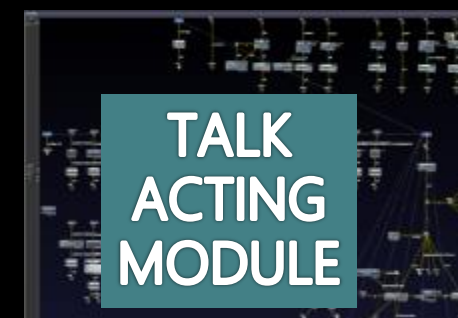
WAIT-MODE



LEAD-MODE



GO_TO-MODE



EVER PLAYED AN MMORPG WITHOUT A KEYBOARD?

Utilizing Non-Verbal Communication



4. ARE THEY EMOTIONAL ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?

QUALITY TIME

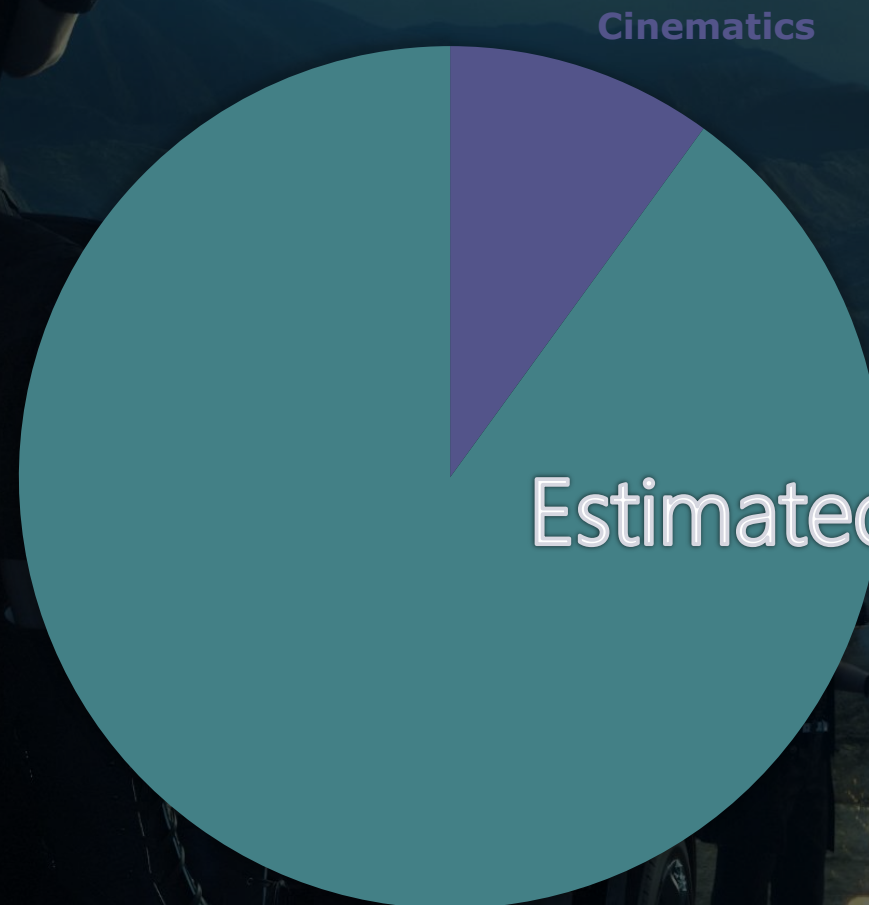
Create an Emotional Pulse



A scene where Prompto confess what inside his mind to Noctis.

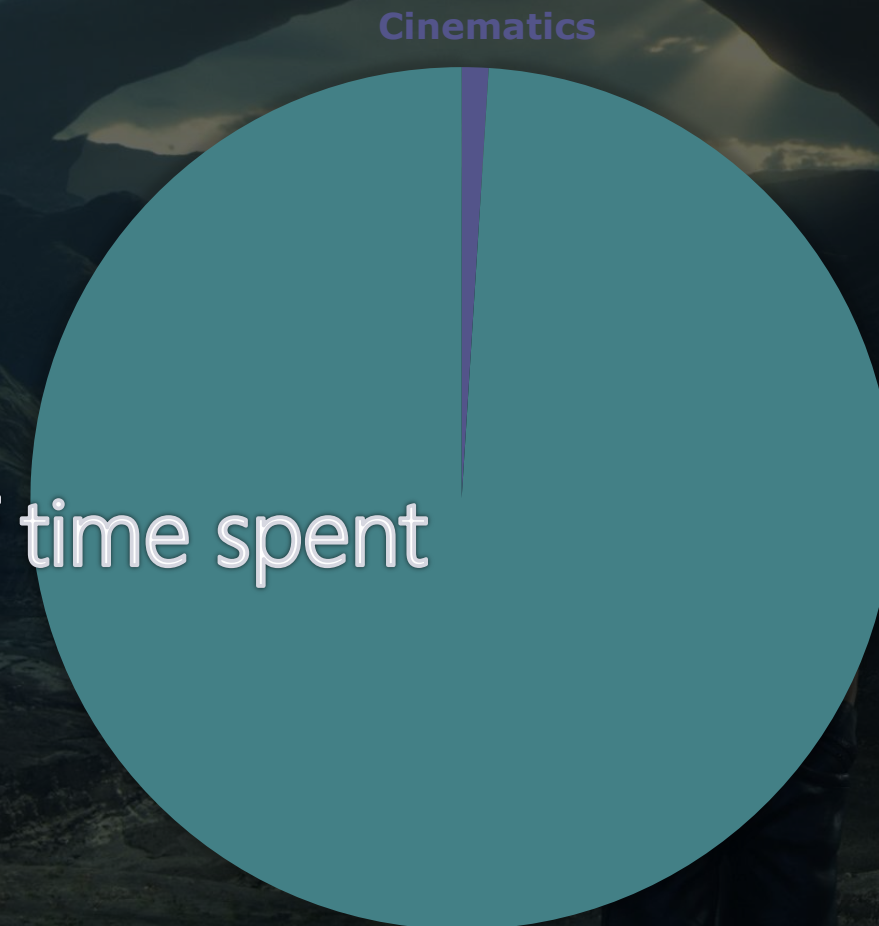
YOU MEAN, LOTSA CINEMATICS & REAL TIME EVENTS?

LINEAR GAME



Realtime
gameplay

OPEN WORLD GAME



Realtime
gameplay

Estimated proportion of time spent



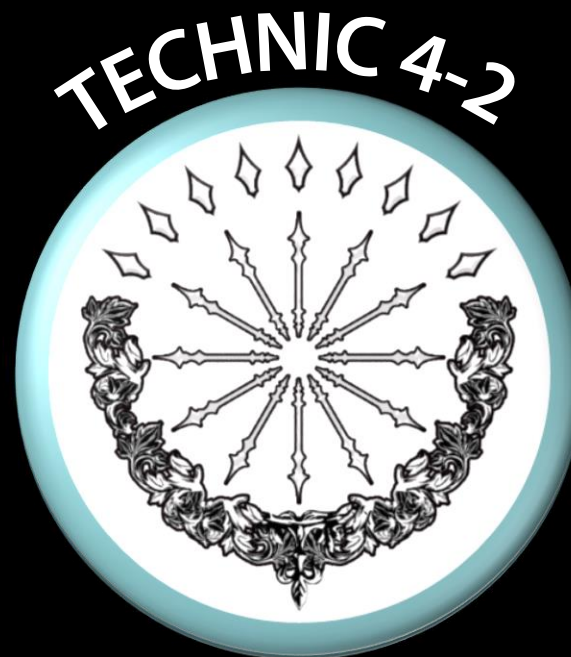
SHOW THE PLAYER THEY ARE LIVING CREATURES

EXPOSE THEIR WEAKNESS AND EMOTIONS

SHOW THE PLAYER THEY ARE LIVING CREATURES

EXPOSE THEIR WEAKNESS AND EMOTIONS





MAKE A CHANGE

MAKE THE PLAYERS FEEL THEY GAINED SOMETHING/ LOST SOMETHING

MAKE A CHANGE

MAKE THE PLAYERS FEEL THEY GAINED SOMETHING/ LOST SOMETHING

TEEN
PHASE



Talk a lot.
Talk silly.

PRE-ADULT
PHASE



Argue.
Do not talk.

ADULT
PHASE



Talk less.
They know what
others wants
without talking

TEEN PHASE



PRE-ADULT PHASE



ADULT PHASE



MAKE A CHANGE

MAKE THE PLAYERS FEEL THEY GAINED SOMETHING/ LOST SOMETHING

TEEN
PHASE



PRE-ADULT
PHASE



ADULT
PHASE



4 HIERARCHY OF PROPERTIES FOR ENGAGING BUDDY-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?

THE TOP OF THE HEIRACHY

“Comfortable” is the Identity of FINAL FANTASY XV’S AI-Buddy



4. ARE THEY EMOTIONAL?



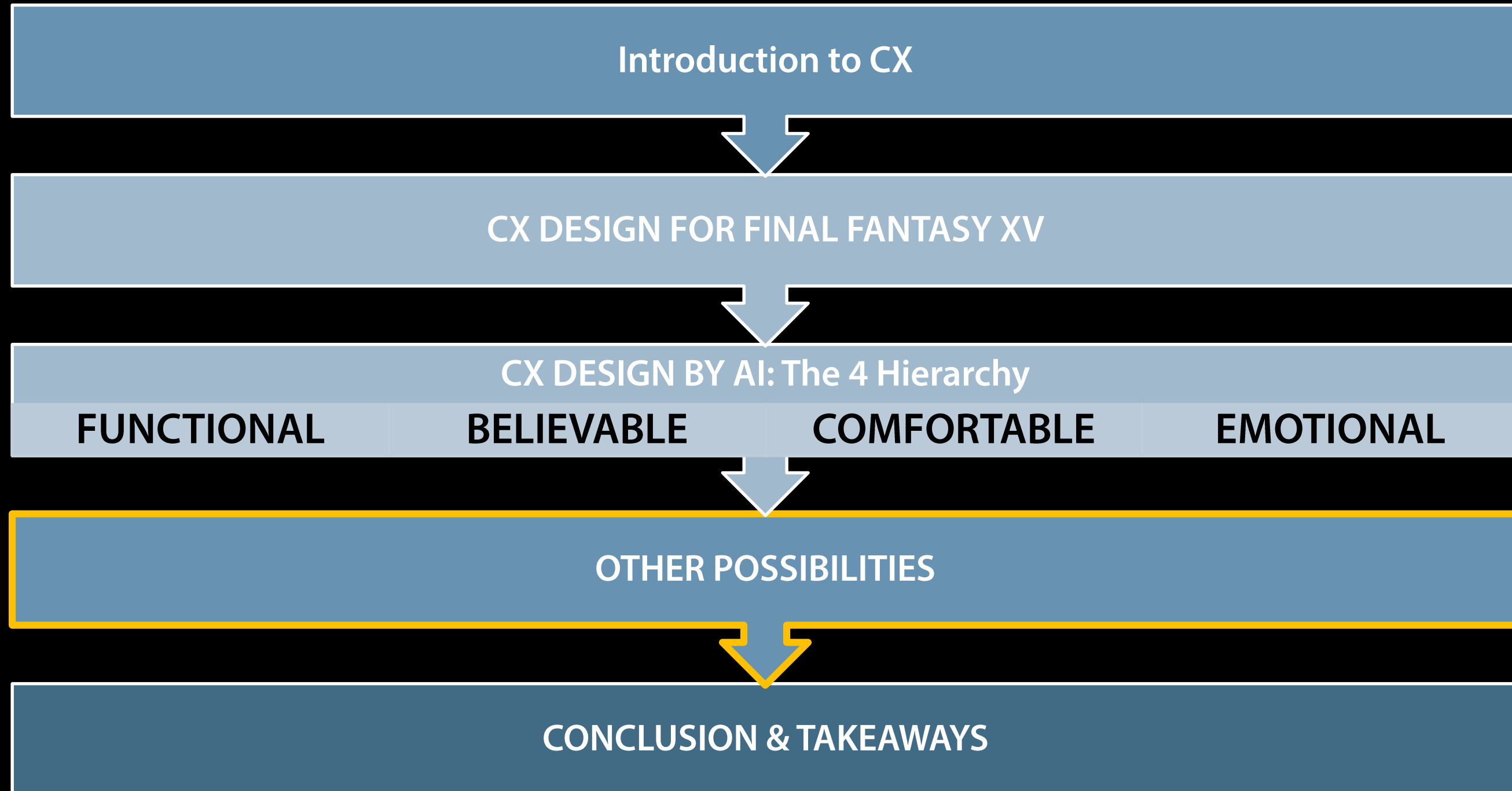
3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?



OTHER CX DESIGN POSSIBILITIES

Why We Didn't Do What We Didn't Do



WHY DIDN'T WE HAVE A FRIENDSHIP POINT?

Because Instead of Treating Them As Friends, The Player Would Treat Them As A Tool To Complete the Game

WHY DIDN'T WE HAVE A CHAT BUTTON?

Because Instead of Treating Them As Friends, The Player Would Feel That Talking To Them Is a Task

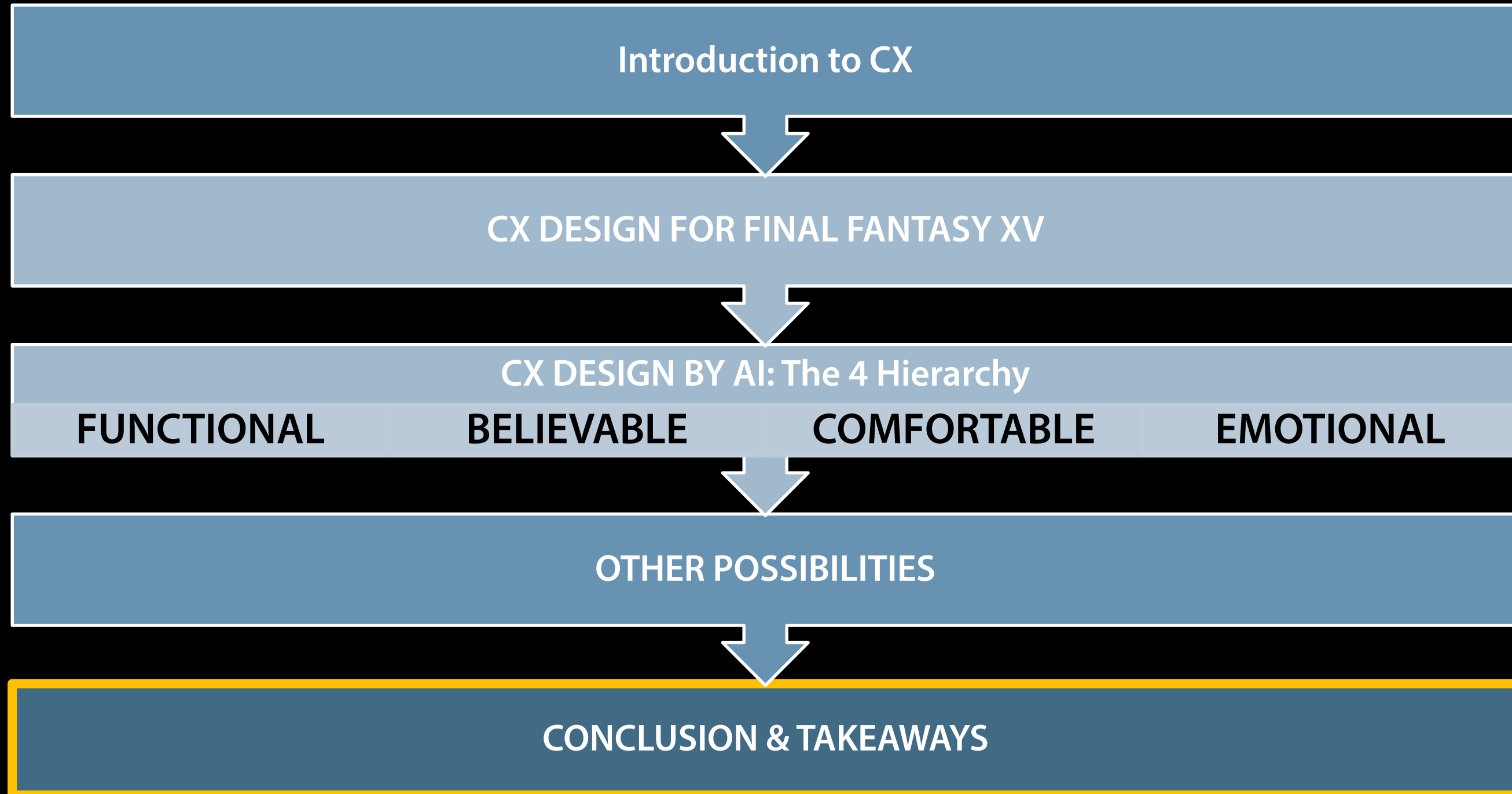
WHY DIDN'T WE HAVE A LEARNING AI?

Because Instead of Treating Them As Friends, The Player Would Treat Them As AI!



DON'T LET SYSTEMS RUIN YOUR CX

WHAT WORKS FOR OTHER GAMES MIGHT NOT WORKS FOR YOU



CONCLUSIONS & TAKEAWAYS



THEY WALKED TALL

They Gives Life to FINAL FANTASY XV

651 people found this review helpful
1,148 people found this review funny



Recommended
3.7 hrs on record

Posted: 7 March

This game makes me feel like I have friends.

A review for FINAL FANTASY XV WINDOWS EDITION on Steam

<https://steamcommunity.com/id/lunarshards/recommended/637650/>

4 HIERARCHY OF PROPERTIES FOR ENGAGING BUDDY-AI



4. ARE THEY EMOTIONAL?

- ◆EXPOSURE
- ◆CHANGE



3. ARE THEY COMFORTABLE ?

- ◆DISTANCE
- ◆VOICE



2. ARE THEY BELIEVABLE ?

- ◆MAGIC
- ◆ANIMATION



1. ARE THEY FUNCTIONAL ?

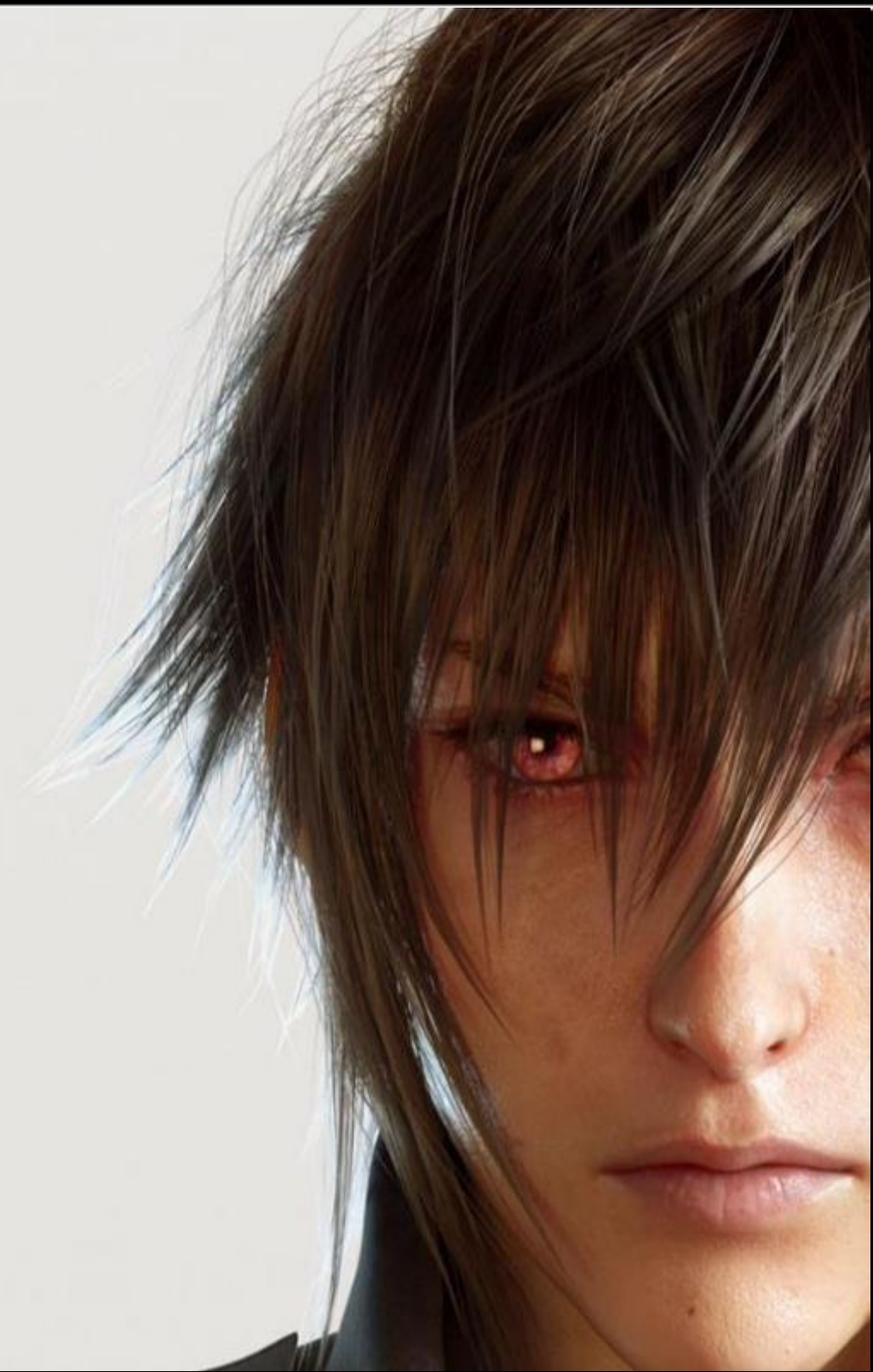
- ◆VISUALIZATION



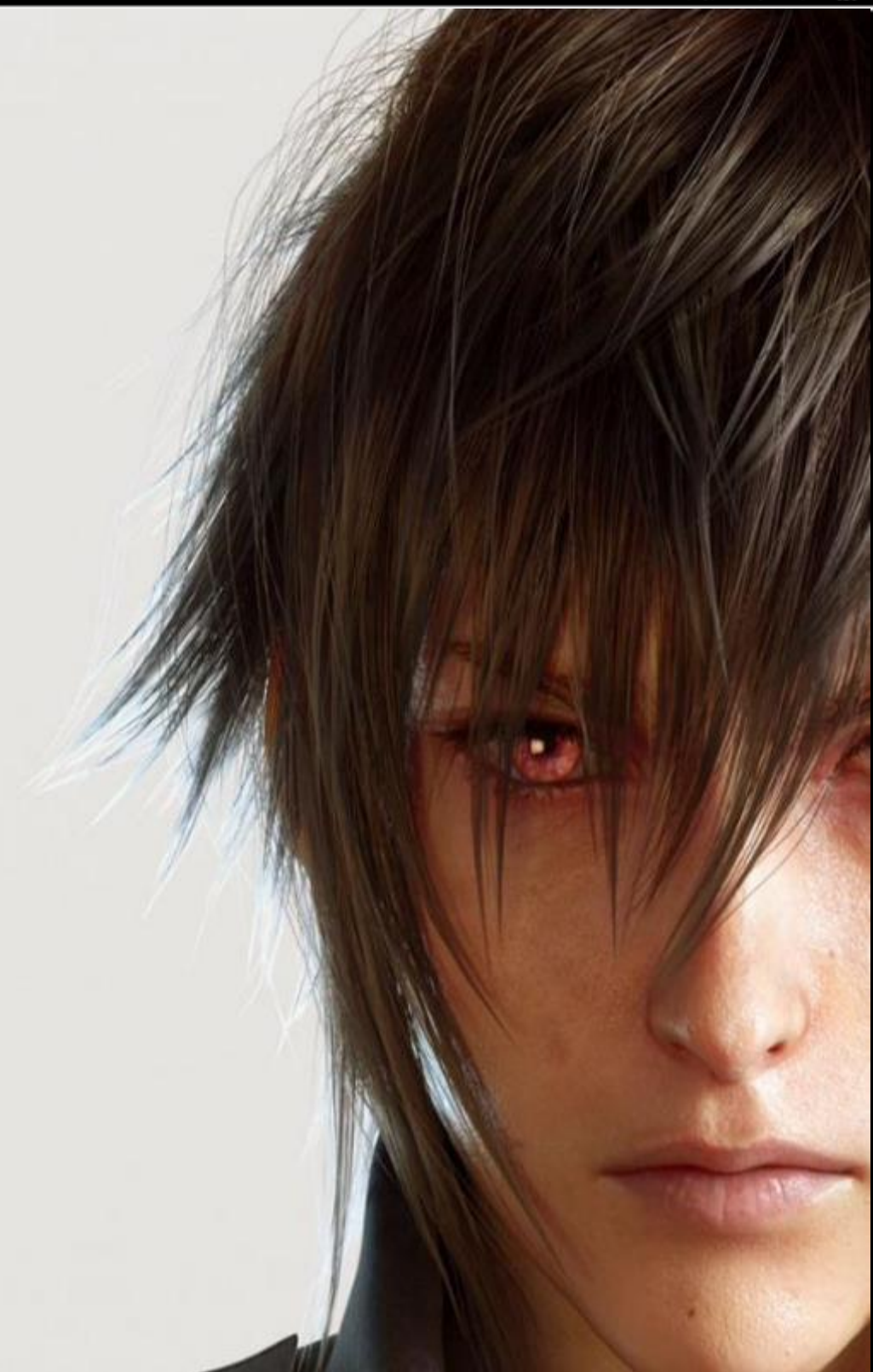
GET YOUR TEAM TO CARE ABOUT CX

EARN CONCERN & COOPERATION

WHO IS IN CHARGE OF CHARACTER DESIGN?



YOU!



OUR JOURNEY CONTINUES

WE'RE WORKING ON AN UNSEEN AI



Contact Me



prasertv@square-enix.com



[SuntimentalMood](#)

We are looking for engineers & AI designers...



SQEXBD2-INQ@square-enix.com

WINDOWS is a trademark or registered trademark of Microsoft Corporation.
All other trademarks are the property of their respective owners.