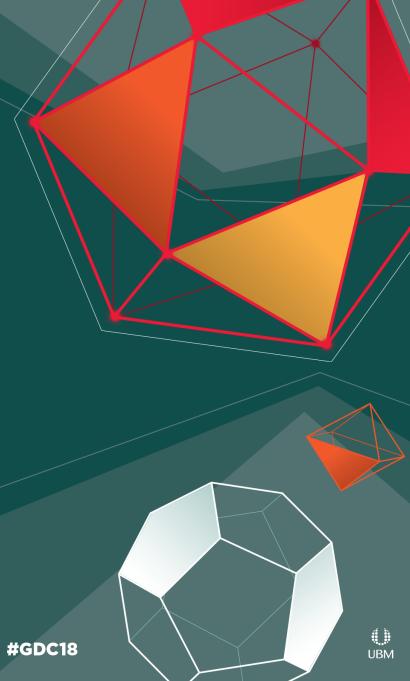
GOC

Mass Effect Andromeda Audio Retrospective

Michael Kent Creative Audio Director Bioware





Michael Kent - Creative Audio Director - Bioware

14 years of experience making games













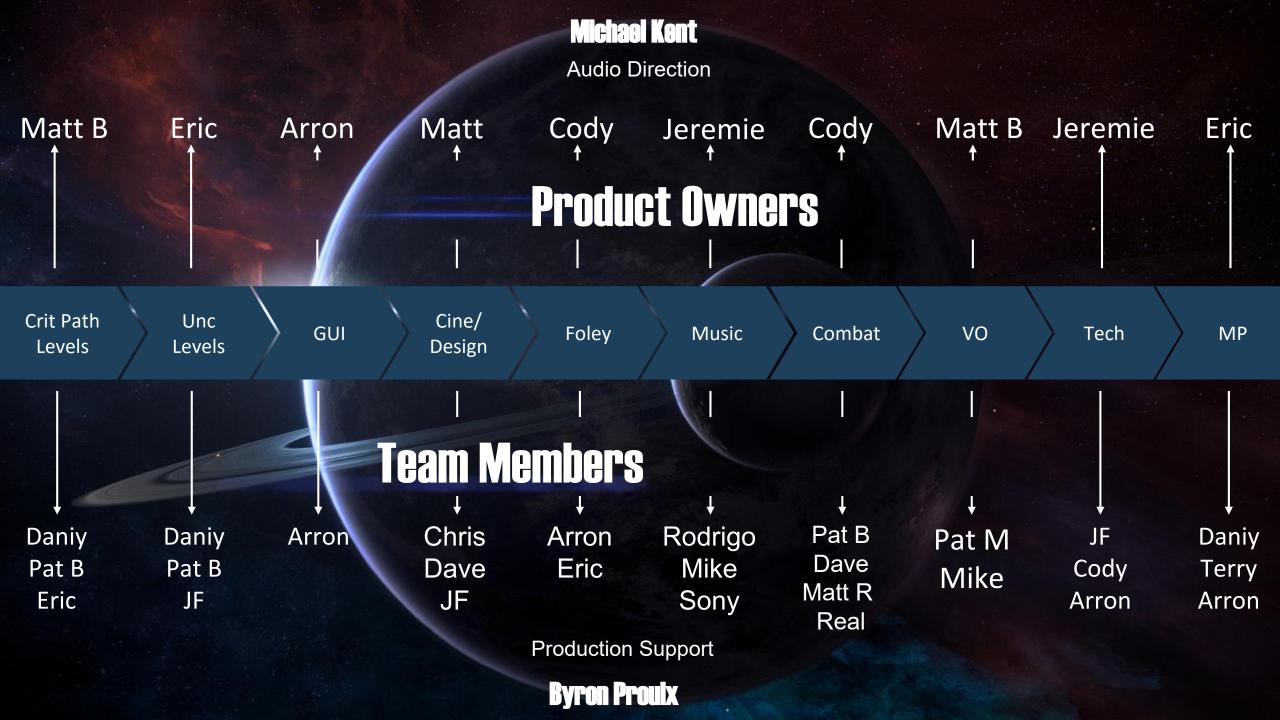




- 20 years of audio experience
- 3 weeks of Power Point experience

The Team

 The team was made up of 14 audio designers and 1 audio programmer









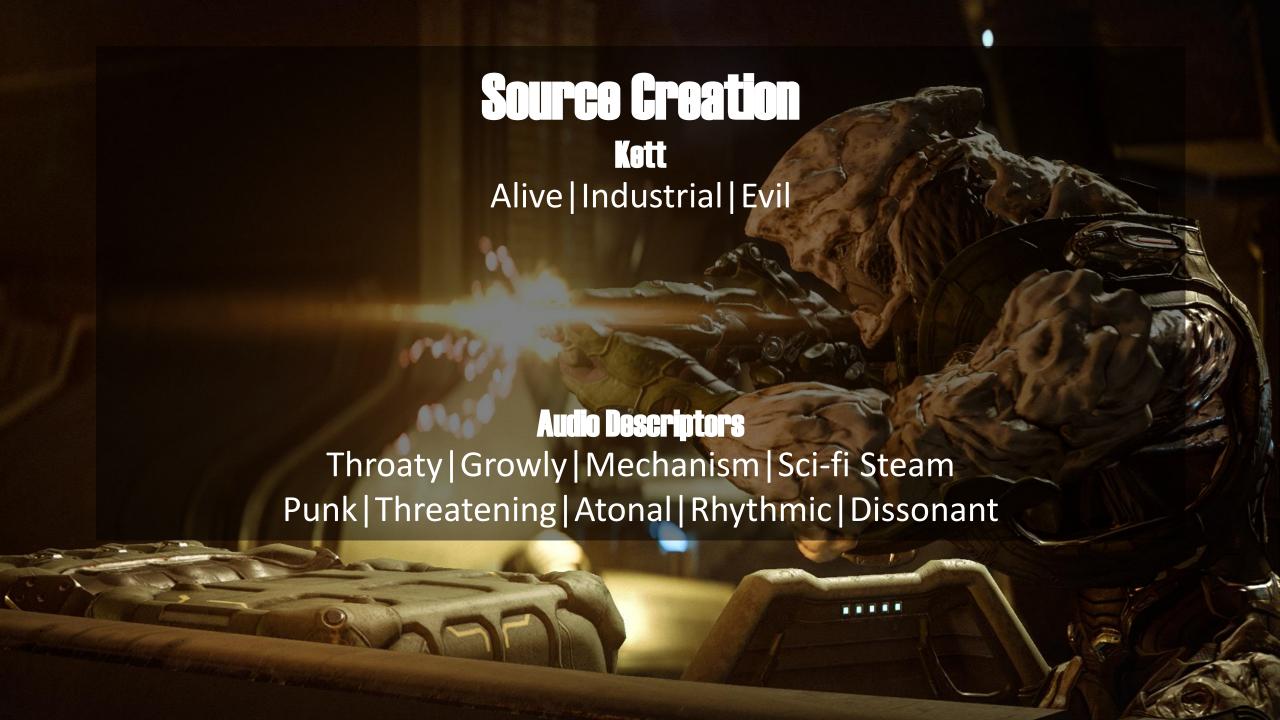




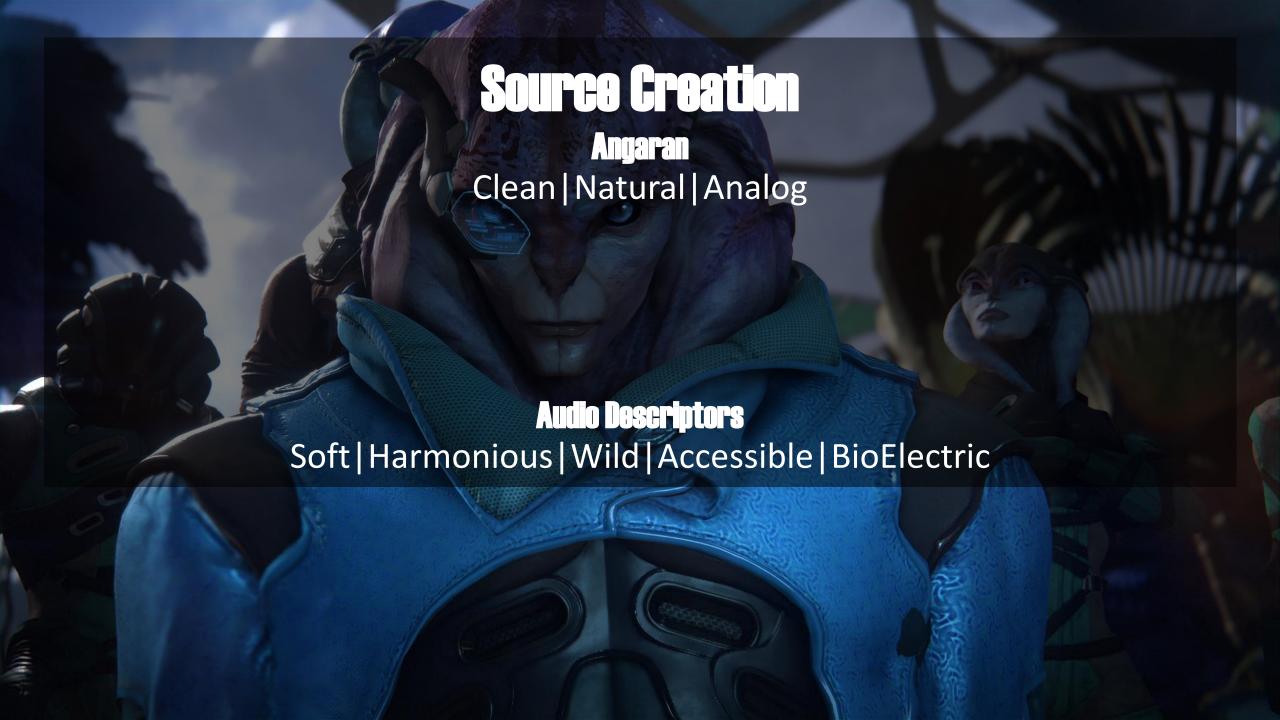


For Mass Effect Andromeda we categorized source into 4 groups:

- Milky Way
- Kett
- Remnant
- Angaran

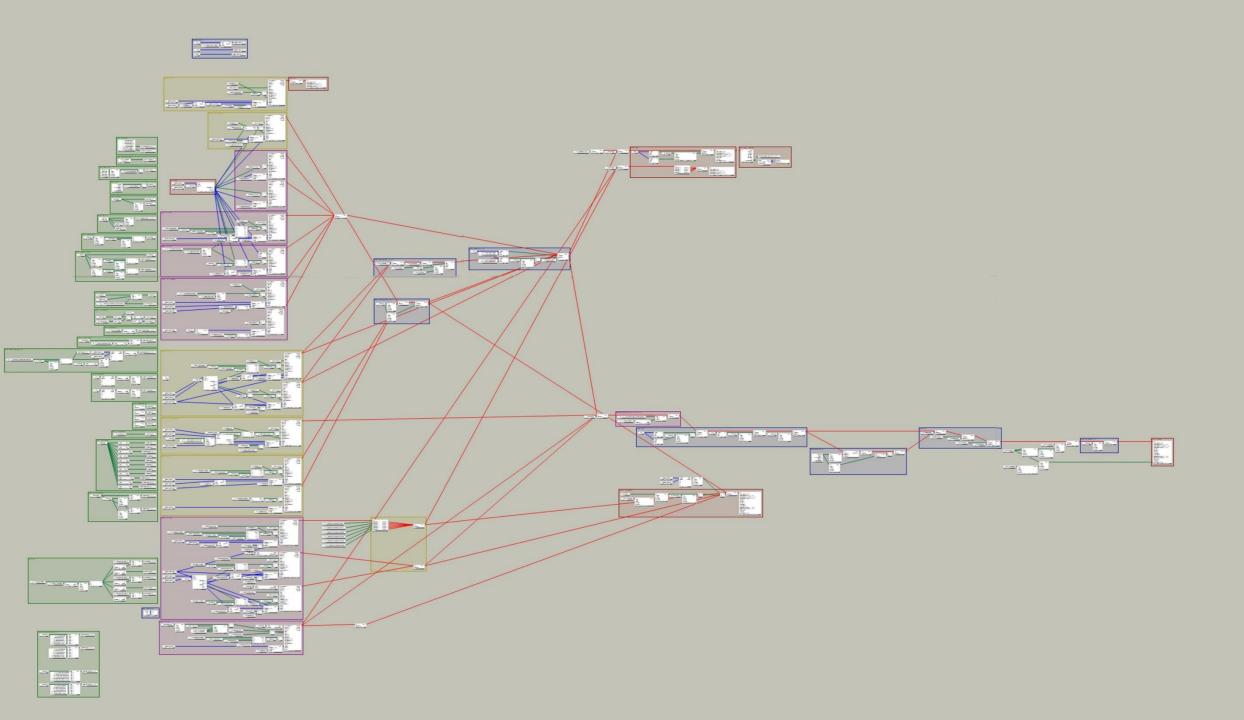


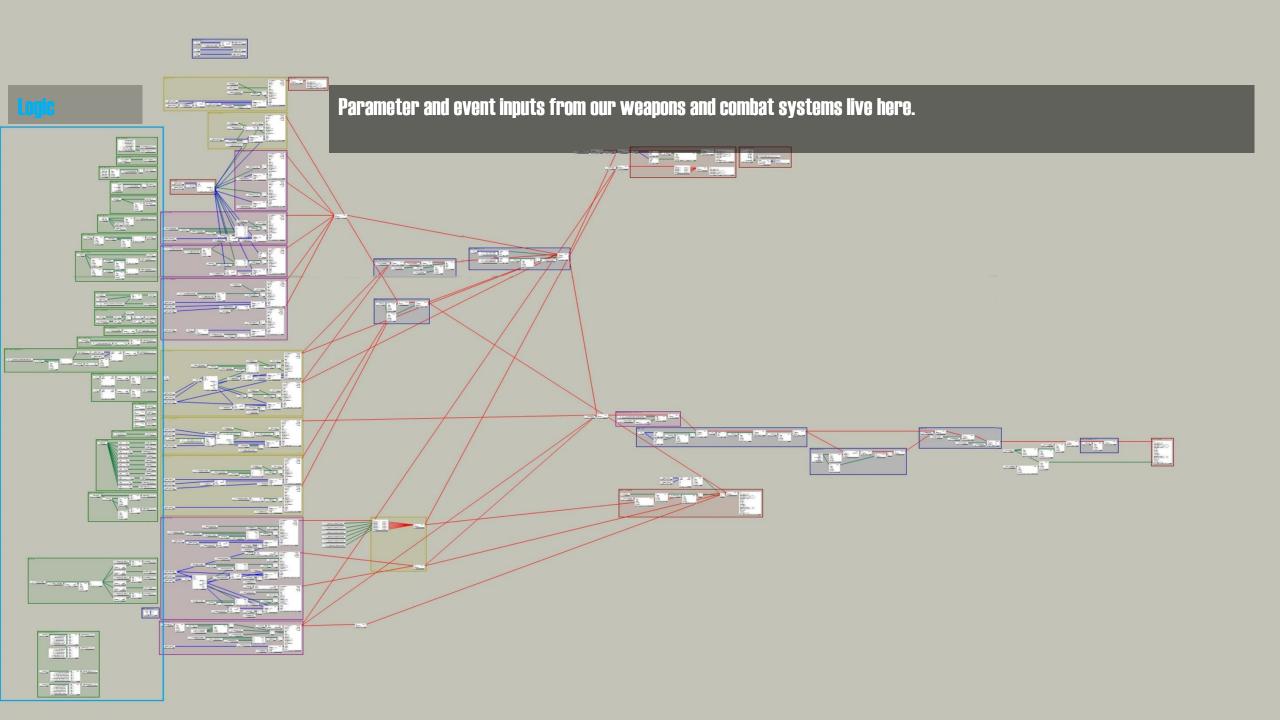


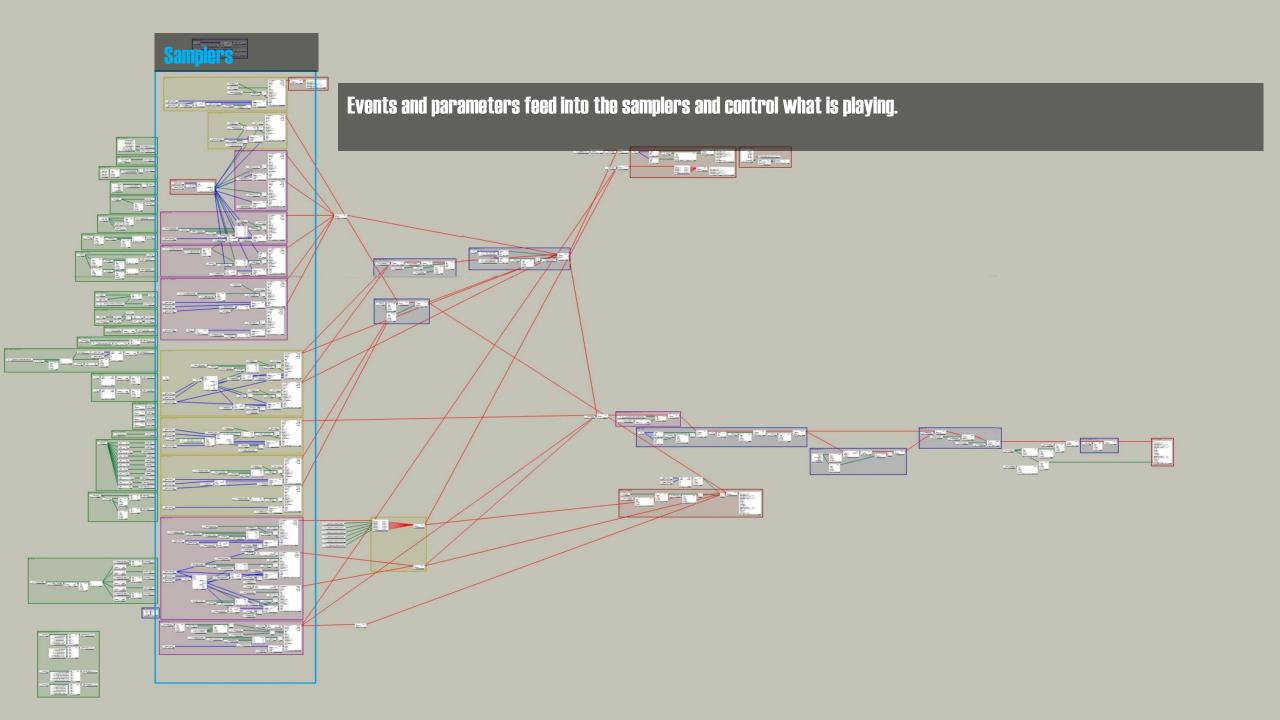


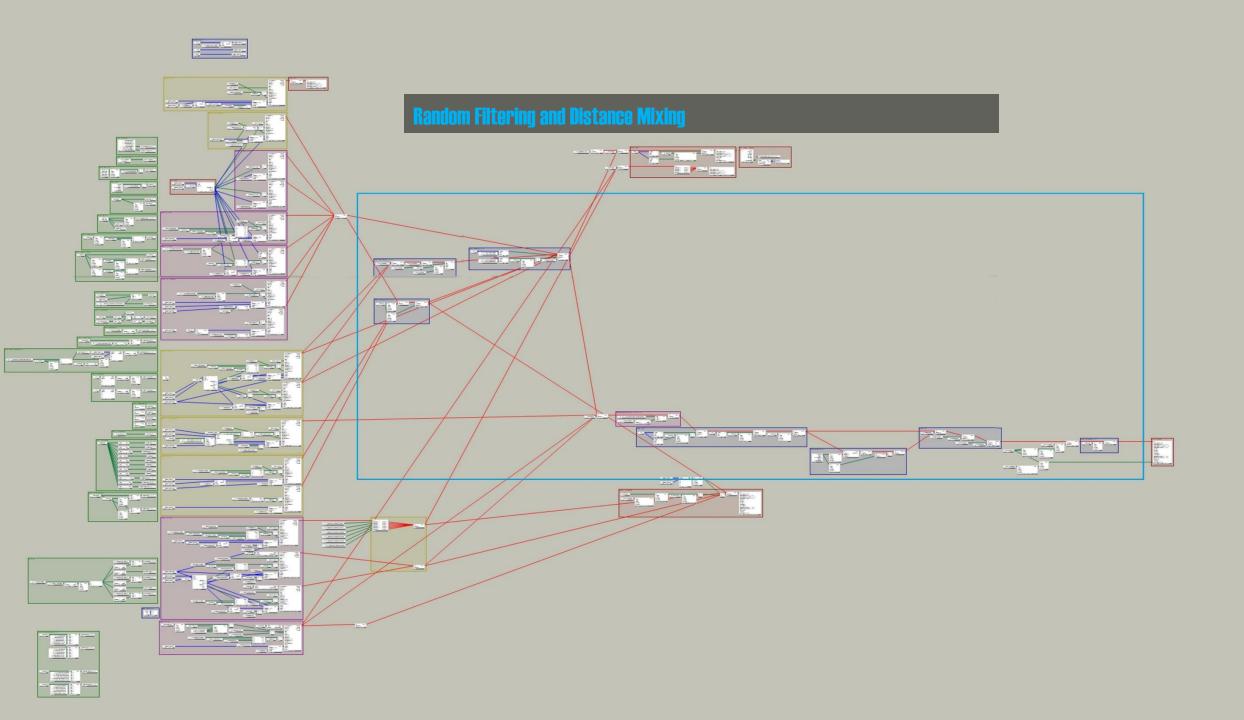


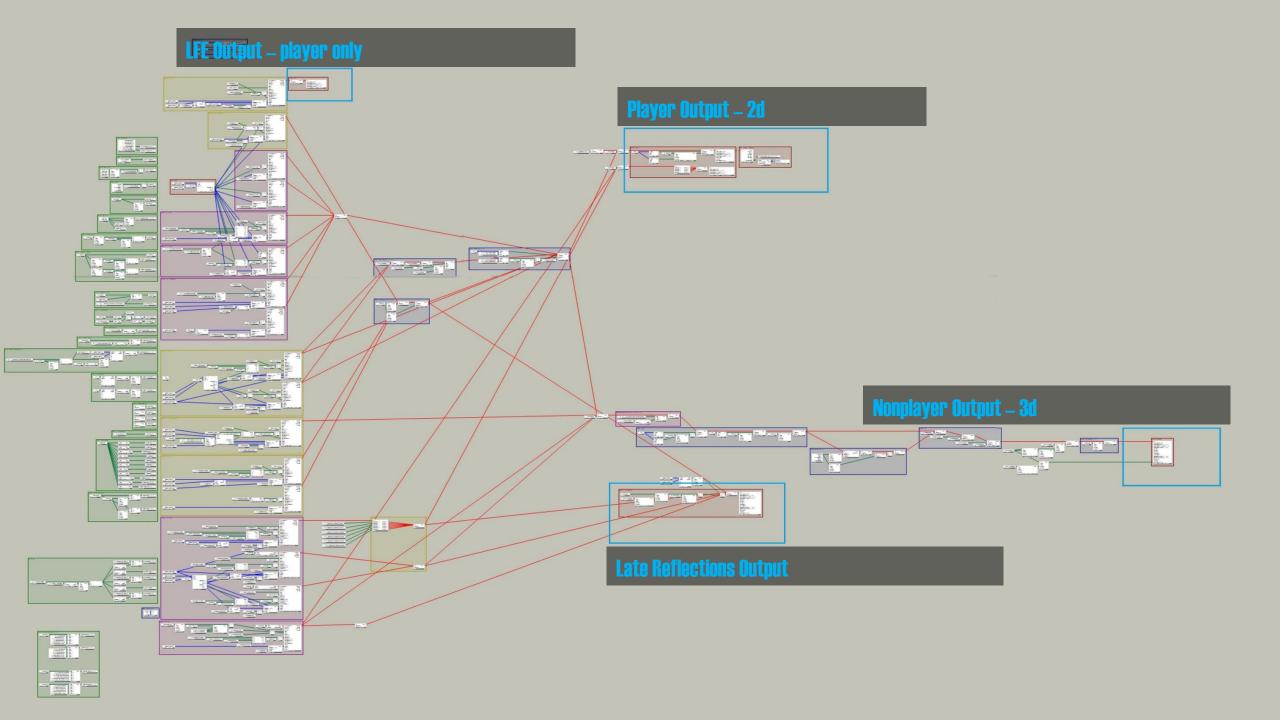






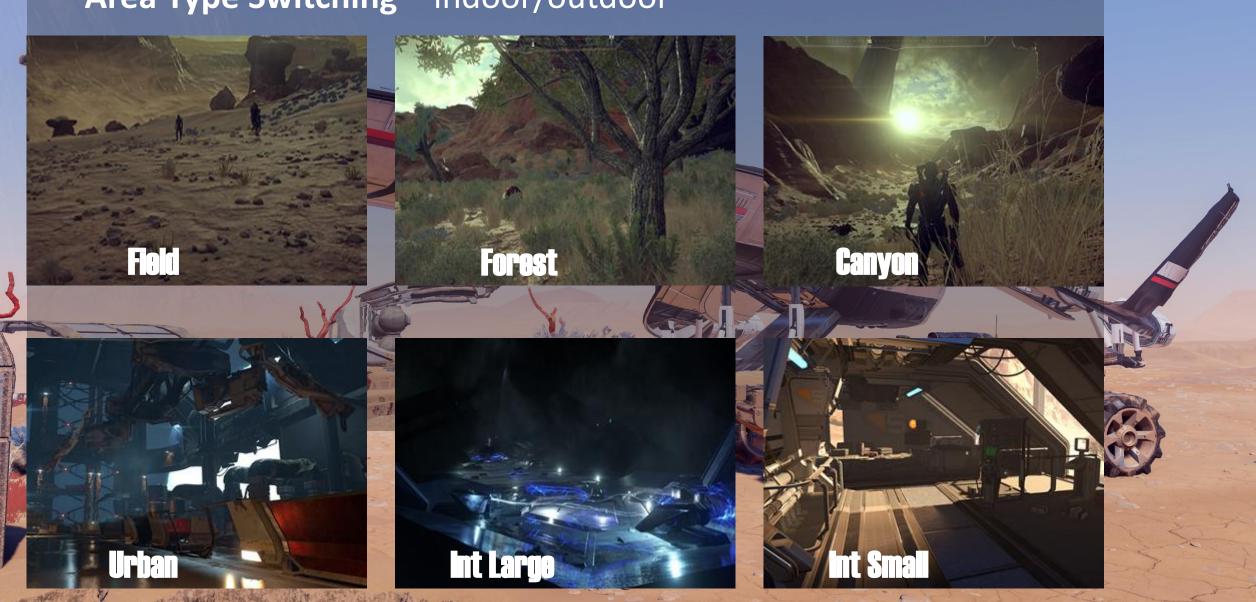


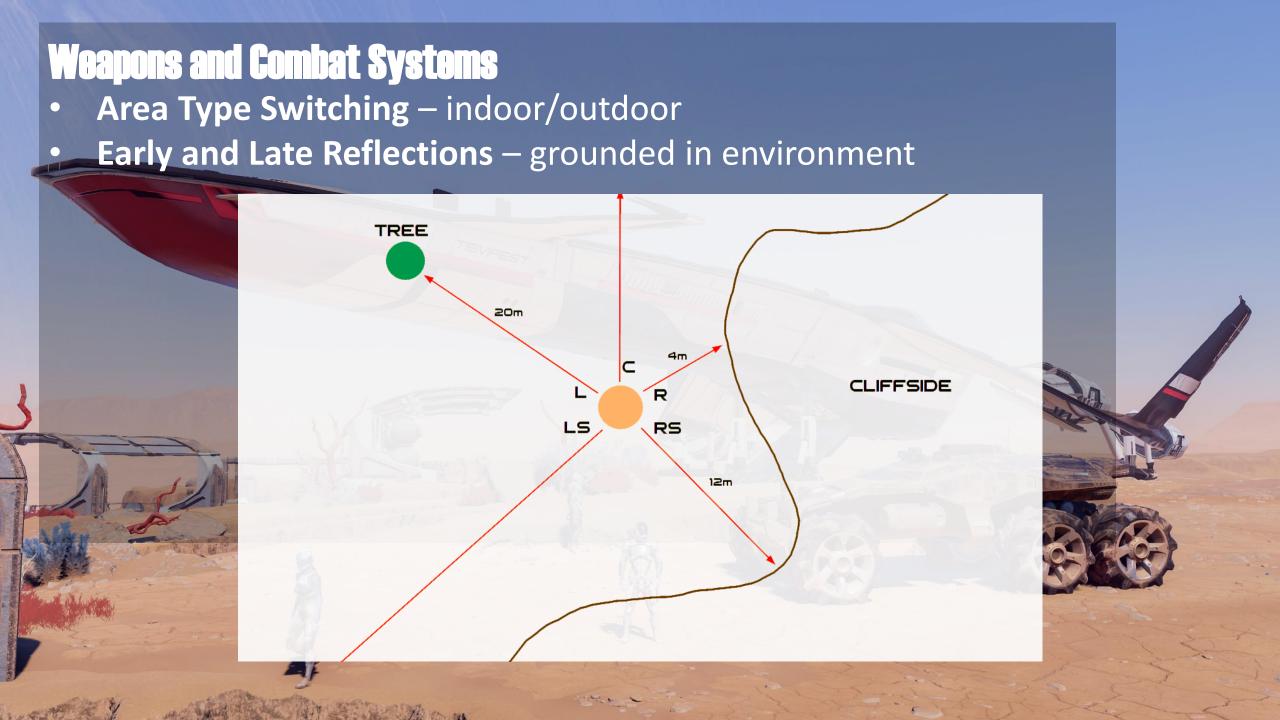


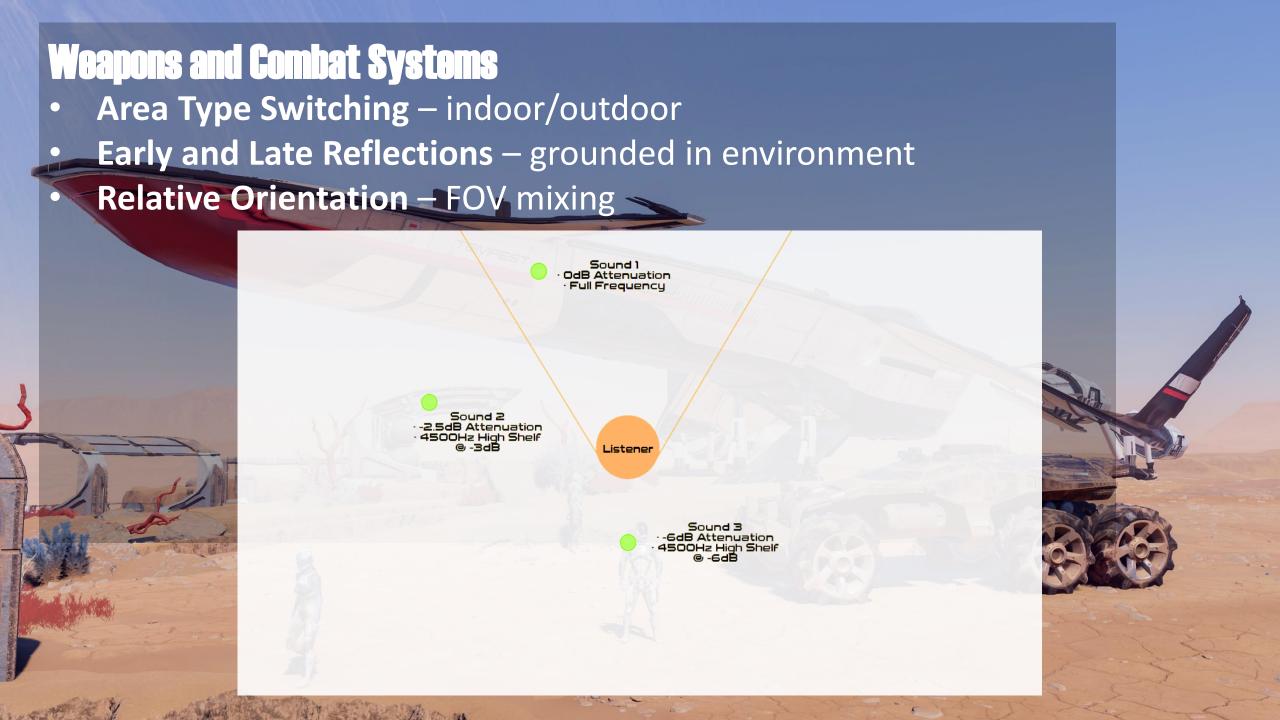


Weapons and Combat Systems

Area Type Switching – indoor/outdoor

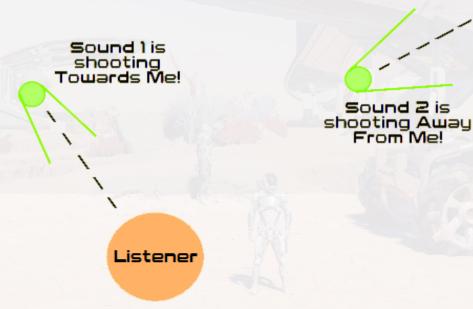


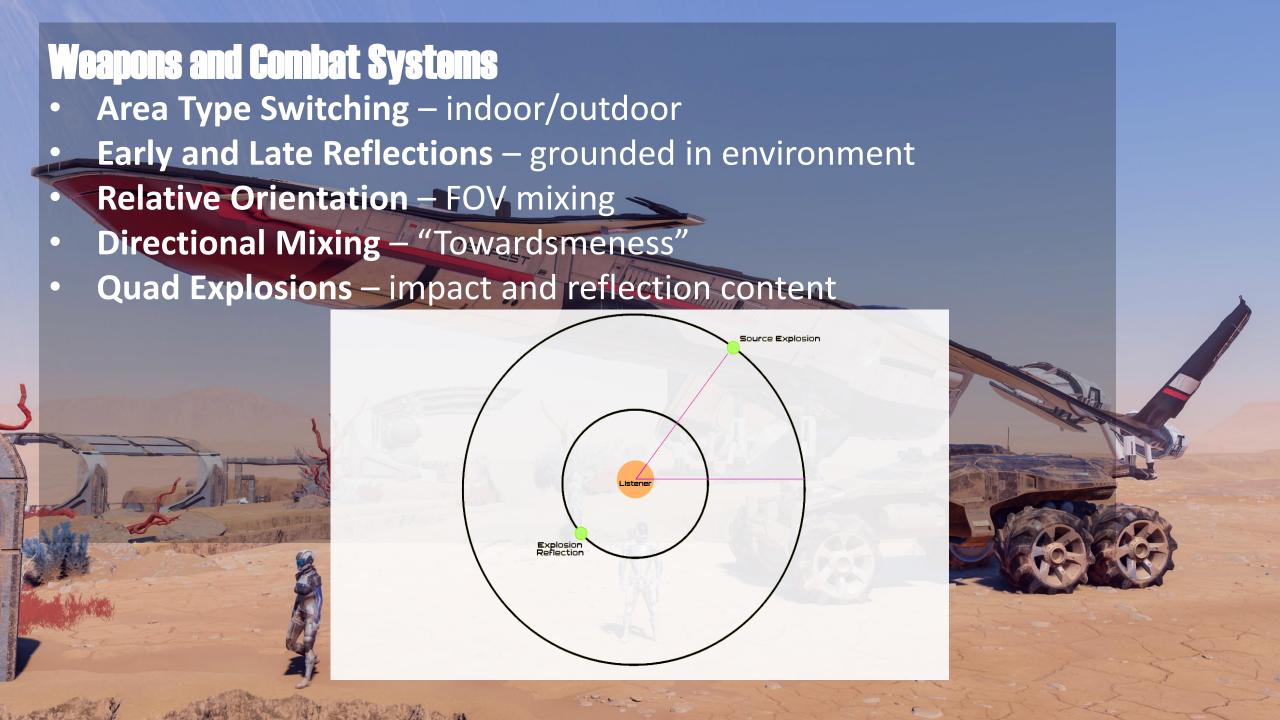


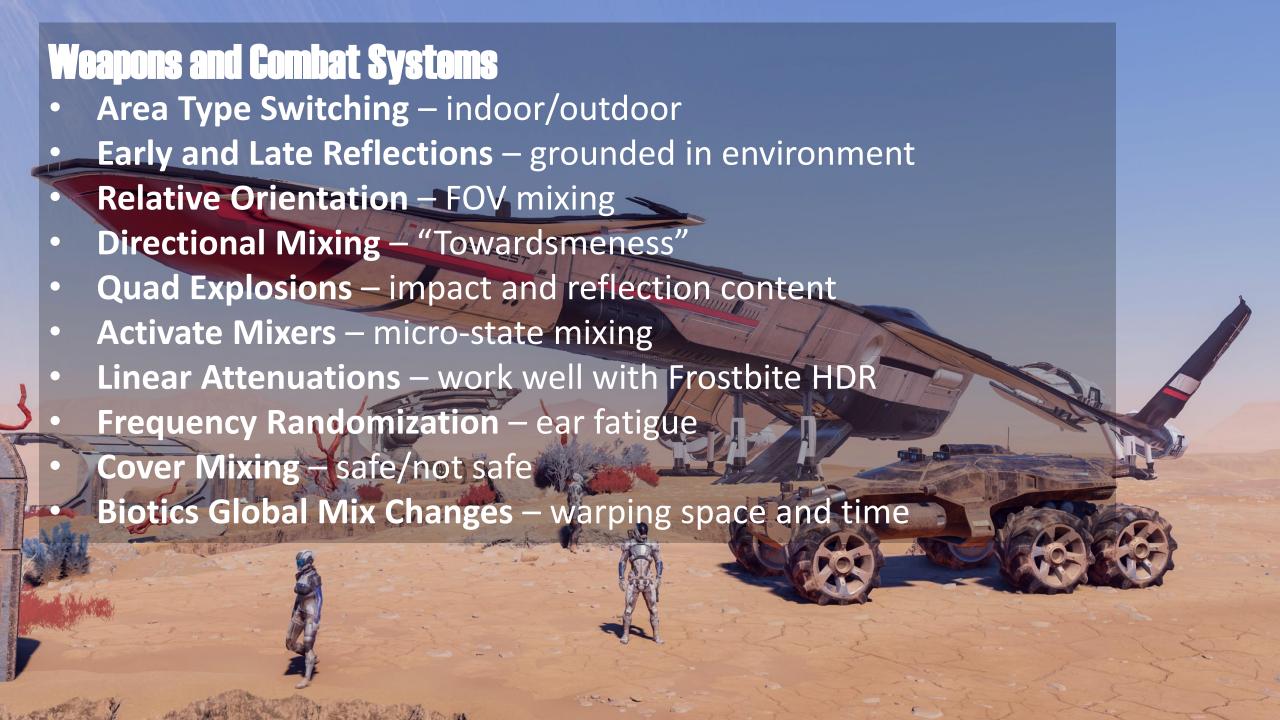


Weapons and Combat Systems

- Area Type Switching indoor/outdoor
- Early and Late Reflections grounded in environment
- Relative Orientation FOV mixing
- Directional Mixing "Towardsmeness"



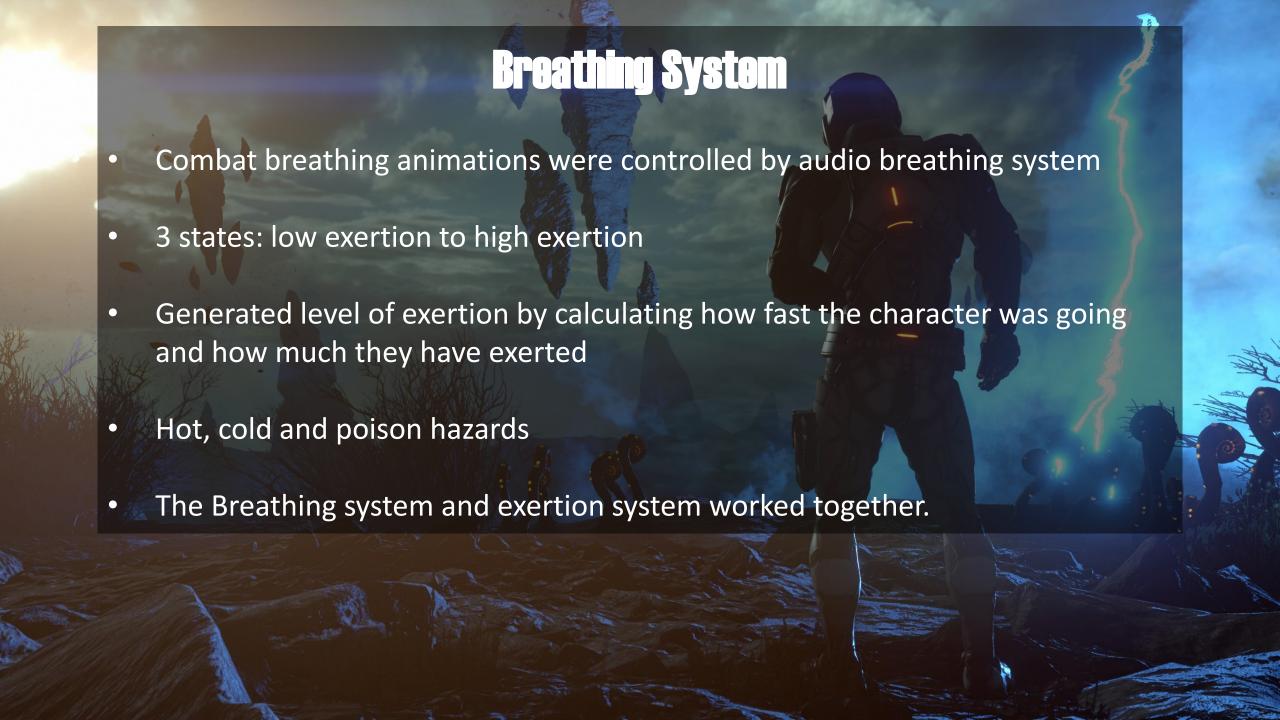






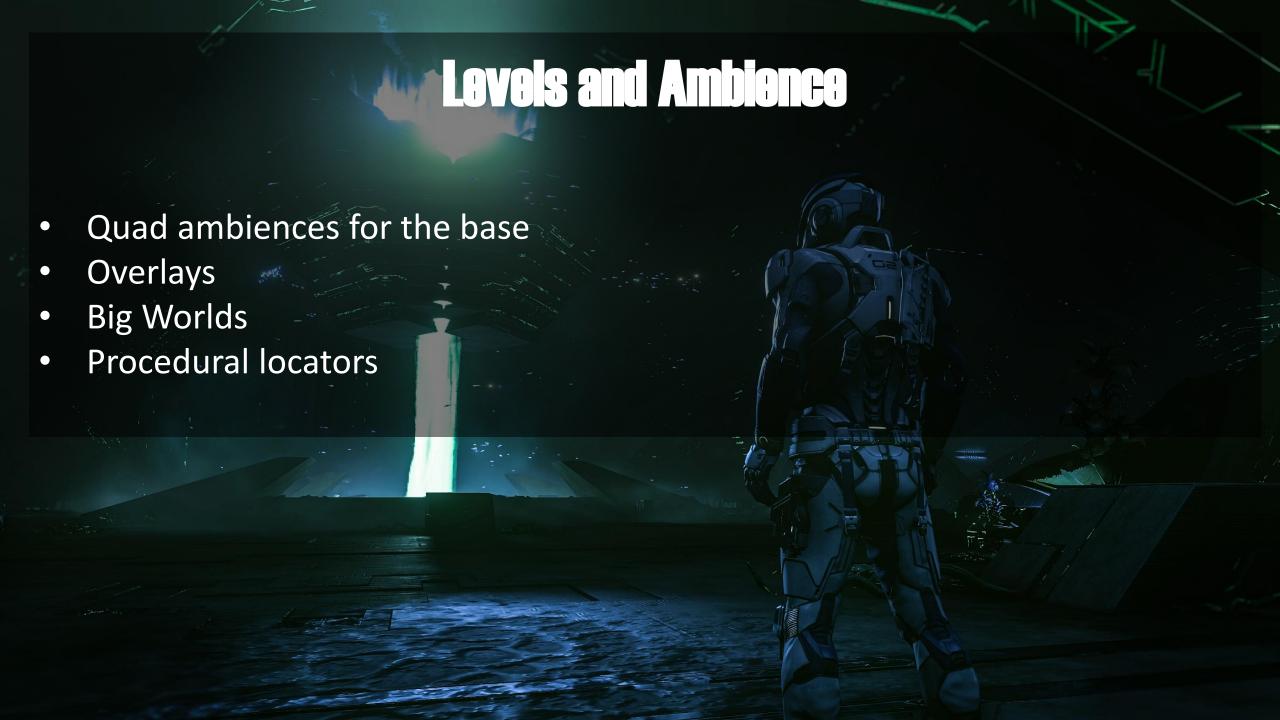


- Movement was a combination of loops and one-shots
- Amplitude of looping Foley assets was controlled to correspond with footstep events of characters
- Speed of characters' hands also taken into account to work in conversations
- 8 different states
- 8 different types of movement content



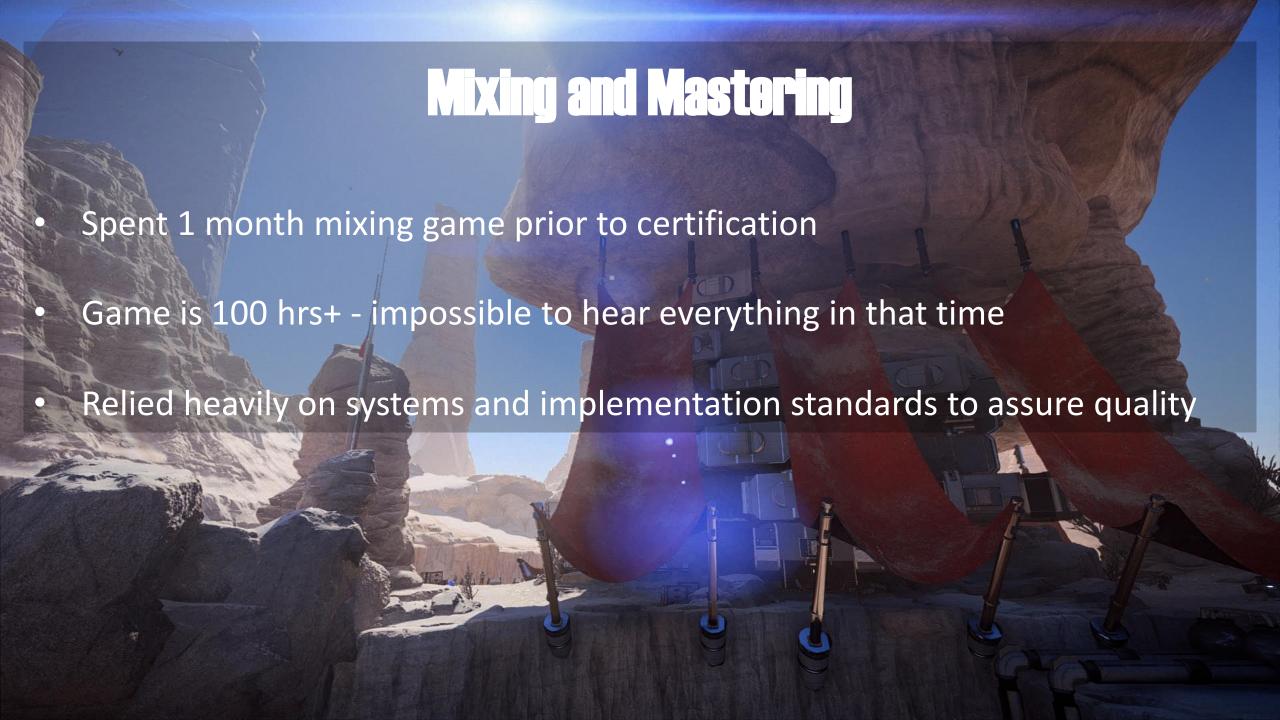


- Two types of levels with two different sound design approaches:
 - Open world
 - Linear story-driven
- Open world: player could be anywhere at any time, systems need to be robust
- Linear areas: more hand-scripted approach was used









Mixing and Mastering

■AttackSpeed

■ ReleaseSpeed

■InMin

■InMax

■OutMin

■OutMax

Parameter Low Pass (Linear)

Out | In

AttackSpeed

■ReleaseSneed

■Frequency

Parameter Low Pass (Linear)

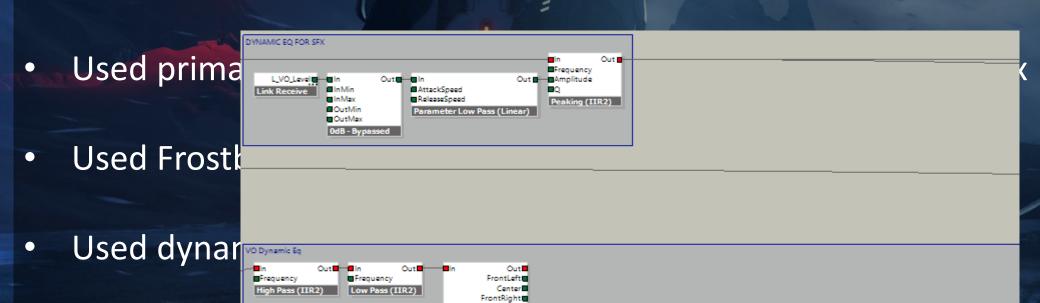
Peaking (IIR2)

Frequency

Amplitude

Peaking (IIR2)

Setting standards for implementation for each different sound category



RearLeft■ RearRight■

FrontLeft

FrontRight

RearLeft

Center

■InMax

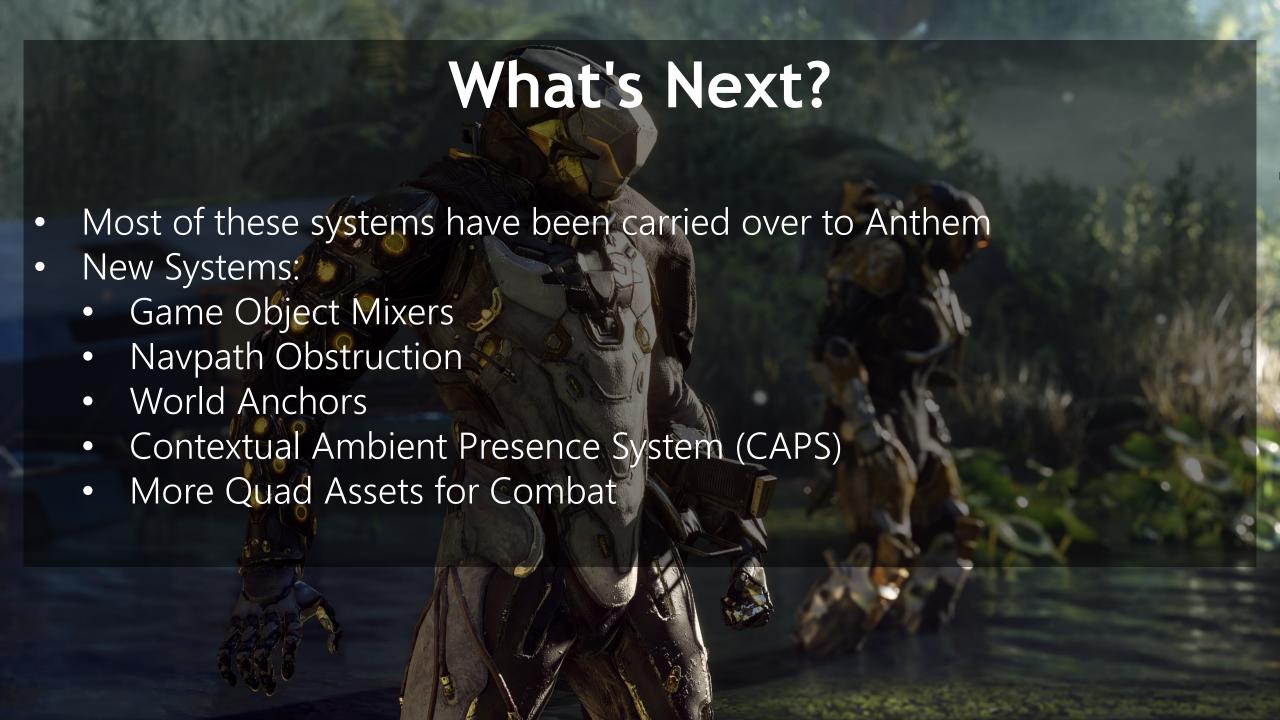
■OutMin

Scale Clamp

RmsAmplitude

Frequency

High Pass (IIR2) Low Pass (IIR2)









Questions?

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