VR Course 2018
Unity3D Complementaries

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Overview

Different Useful Features:

• Audio
• Networking
• Mecanim
Audio

The sound can be output through an audio listener or an audio mixer.

3D Sound = “all channels downmixed to mono and attenuated according to distance and direction. “*1

*1 [https://docs.unity3d.com/Manual/class-AudioSource.html](https://docs.unity3d.com/Manual/class-AudioSource.html)
Audio

- Add affect to a group of sound
- Simple output without any effect
- Manage the different mixers under different subgroups
- Tab to manage your different mixers
- All Mixers Master
Audio

**Volume**

How loud the sound is at a distance of one world unit (one meter) from the **Audio Listener**.*1

**Pitch**

Amount of change in pitch due to slowdown/speed up of the **Audio Clip**. Value 1 is normal playback speed.*1

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*1 https://docs.unity3d.com/Manual/class-AudioSource.html
Networking

Add this component to an Empty GameObject named NetworkManager

Test your application on one machine

Add the player prefab to be instantiated in the scene

Randomly spawn your player in the different location implemented

HUD to control the Network Manager on runtime
All these components need to be added on the player prefab.

HUD to control the Network Manager on runtime.
Mecanim

Add Key Frame to your animation

Animation Tab allows you to create simple animation directly in Unity

Record your animation when moving your object

Control manually your animation

Move in your animation

Created on the GameObject you have animated

Record your animation when moving your object
Mecanim

This tab opens automatically when an animator is created. One animator can control different animation clips thanks to the Animator tab.

Different variables to control different states.

Transition and State (animation clip)
Useful Resources

• Mecanim:
  https://unity3d.com/fr/learn/tutorials/topics/animation/animate-anything-mecanim

• Networking:
  https://unity3d.com/fr/learn/tutorials/topics/multiplayer-networking/introduction-simple-multiplayer-example?playlist=29690