# GAM 207 Module Two Discussion Template: Game Engine Review

Name:

Identify Other Game Engine:

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|  | Unreal | CryEngine |
| Distribution Platforms | The Unreal engine supports distribution on PC (Windows, macOS, Linux), Consoles (Playstation 5, Xbox Series X/S, Nintendo Switch), mobile (iOS, Android), web (WebAssembly, HTML5), VR ( oculus, SteamVR, Windows Mixed Reality), AR (ARKit, ArXCore), and various other platforms like embedded systems, broadcast media players, and automotive infotainment systems. | The CryEngine supports development for PC (Windows, Linux), console (PS4, Xbox One), and VR (Oculus Rift, OSVR, PSVR, and HTC Vive. |
| Programming Language(s) | The Unreal Engine is primarily written in C++. It also supports scripting via Blueprint Visual Scripting and provides more limited support for C#, Python, and Lua through plugins. | The CryEngine’s codebase comprises a combination of programming languages, including C#, Lua, and C++. |
| Cost/Licensing | Unreal Engine has a reasonably straightforward revenue-based licensing model- it’s free to use for non-commercial projects. At the same time, games and applications that generate revenue pay a 5% royalty fee on gross revenues after the first $1 million in sales. | CryEngine is free to use for non-commercial projects. There is a royalty charge of 5%; royalties are not applied to the first $5000 annual revenue per project. |
| Key Capabilities | The Unreal Engine delivers cutting-edge real-time graphics and rendering capabilities, including features like ray tracing, photogrammetry, and advanced material authoring tools for achieving highly realistic visuals. | Some key capabilities of CryEngine are real-time global illumination, dynamic lighting, and physically-based shading. |
| Ease of Use | The Unreal Engine is generally considered relatively user-friendly and accessible, especially with its visual scripting system and blueprints. However, a relatively steep learning curve exists for users new to game development and 3D software. Epic Games provides extensive documentation, tutorials, and communities to help smooth out the onboarding process. | While powerful, the CryEngine has often been criticized for having a steep learning curve and being somewhat cumbersome to use efficiently. However, its developers have worked to improve the user experience and workflow over time through updates and new tools. |
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