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What game engine am I going to use?

Unreal Engine VS Unity

When it comes to choosing a game engine it's a pretty straight forward choice. Either go with Unreal engine or Unity for projects like this.

In this document I will shortly discuss both and infrom you why I have made my choice.

Unreal Engine

Advantages

- Simple to use interface
- Allows you to create a game without having to "write" a single line of code
- Whole library full of extentions, plugins, assets, etc.
- Fast rendering technology
- Pre-build templates to give you a headstart in otherwise tedious tasks
- Whole list of exportable packages (e.g. Linux, Windows, Android, ...)
- Very active community with plenty of tutorials, guides, forms, ...

Disadvantages

- Heavy on your system (in my experience it crashed a couple of times)
- UE5 removed direct integration with HTML
- A bit to powerful for my usecase(s)

Expected requirments before using

- Basic game development knowledge
- Basic C++ knowledge

Unity

Advantages

- Better platform if you want to work in team (easier to setup)
- Better choice for Indi games since it royalty free
- Massive library of plugins, assets, ... to inhance the capabilities
- Since Unity has existed for longer the support community is bigger than that of UE
- Easier on your machine since it's less graphically advanced as ue5

Disadvantages

- Best features of Unity are locked behind the Unity Pro version. Which can get very expensive
- No open source code

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• Slower render times than UE5

Expected requirments before using

- Basic game development knowledge
- Basic C# and JScript knowledge

Conclusion

Personally I have decided on using UE5.

While Unity would seem like the better choice since my game is rather small scale and most certainly not a AAA game, I have my reasons for choosing UE5.

My main reasons are:

- 1. I'm still very interested in gamedevelopment and getting to use the new ue5 engine is an amazing learning opportunity
- 2. UE5 is totally free via Epic Games while for Unity I would have to request a Pro version which would just add an extra step
- 3. I've already dabbled in UE4 before so I can use my previously learned things in this project.
- 4. Project packaging and exporting is really really easy in UE5
- 5. Itch.io is a very very solid integration platform for this.