

## COMP350: Optimization: Part A

### **What are the details of the project you are optimising?**

The project I'm optimising is the COMP340 group game project. It's a first person metroidvania game set in sci-fi/ancient egypt.

Currently laptops and anything below and a recent i5 struggle to run it. I intend to optimise it for both PS4 and whatever system requirements my group decides on.

### **What language/engine are you optimising?**

The language used is C# in Unity 5.6.3f1.

### **What tools are you going to use?**

The tools I'll use to optimise are the built in Unity profilers and the PS4 profilers. For the Unity profiler the CPU and memory profilers look the most useful as an initial profile of my COMP340 project showed frequent spikes on those two areas.

### **Resources:**

- **Unity Profiler:**
  - <https://unity3d.com/learn/tutorials/temas/performance-optimization/diagnosing-performance-problems-using-profiler-window>
- **Unite 2017 talk on optimization**
  - [https://www.youtube.com/watch?v=\\_wxitgdx-UI](https://www.youtube.com/watch?v=_wxitgdx-UI)
- **Object pooling**
  - <https://unity3d.com/learn/tutorials/topics/scripting/object-pooling>
  - <http://catlikecoding.com/unity/tutorials/object-pools/>
- **General Unity optimization tips**
  - [http://wiki.unity3d.com/index.php?title=General\\_Performance\\_Tips](http://wiki.unity3d.com/index.php?title=General_Performance_Tips)
  - [https://docs.unity3d.com/353/Documentation/ScriptReference/index.Performance\\_Optimization.html](https://docs.unity3d.com/353/Documentation/ScriptReference/index.Performance_Optimization.html)