

GAM250: Advanced Games Programming 3: Profiling and Analytics



Learning outcomes

- Understand the importance of gathering data in Game Development
- Use Unity's profiler to tweak the performance of your game
- Use Unity Analytics tool to understand player beahviour

Live Coding

Analytics

Exercise 1

- Track the score after every player death
- Track the amount of bullets the player has fired
- Track the Players position overtime (NB. Don't track every frame)
- Track how long the player, plays the game before exiting
- Implement a number of observers to support tracking of the above stats

Live Demo

Profiling

Exercise 2

- Profile the Shooter Games or your Game from 1st year
- Look at the **Time** column, see if you can reduce this value
- Look at the GC column, see if you can reduce this value

Further Reading

- ▶ Profiling (Unite 2017) https://www.youtube.com/watch?v=OS1OwJP8Z14
- Unity Optimisation (Unite 2017) https://www.youtube.com/watch?v=_wxitgdx-UI
- ► Unity Analytics and Player Behaviour (Unite 2016) https://www.youtube.com/watch?v=JzYkLzgdpWI