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| The Name of Your Project  Andrew Milne  BSc Computer Games Technology, 2019 |

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# 1 - Introduction

## 1.1 - The problem with games

Music has always been an integral part of most art forms, from plays to blockbuster movies. When used effectively it can greatly influence how the composer wants the audience feel at any specific moment, for example in theatrical production the composer may make the music swell when a characters finally overcomes an obstacle, or become sombre when a character dies. Video games are no exception to this, but with one very important difference, the composer has no idea when a specific action will happen in the game, in essence they can’t make you press the start button.

However, the vast majority of today's games still rely on precomposed musical assets. Something clearly has to be done differently so that a game’s music in sync with what is happening in the game. It would be fairly jarring for a player if the main character died and the music did not change to reflect this, or if a player took too long in a specific part of the game and the audio file rans its course, the game would then have to either play it again, play a different song, or just stop playing music. Obviously if a player plays a game for long enough they will encounter all the available music that it has to offer which would eventually get boring.

## 1.2 - Conventional Methods

One way around this problem is to allow the game to directly influence what music is being played. One method is called ‘Horizontal resequencing’, this is when once piece of music is switched for another when a specific event occurs in the game (Phillips 2016). For example, if the player is exploring a cave the cave theme may play, but if they are attacked by an enemy the music could change to the combat theme

Composer composes, but player both is audience and performer

Every playthough of a game will be different

Video game soundtracks have to be made differently

Horizontal resequencing

Vertical reorchestration

## Procedural Music

Generative music is when the game itself creates the various melodies or rhythms. This type of algorithmic ensures that the music will be different every time the game is played, and will continue to be different. This type of music is generally kept for ambient background music, as it lends itself quite well to this genre. However it's not overly used in games when the music has to take the forefront, and drive the intended mood of the game.

Indeterminate music:

Chance music

* As the music is being produced the notes are generated randomly
* Although performed the same
* **Composition is left up to chance**

Aleatoric music

* Premade music, performed randomly
* **Performance is left up to chance**

The only way to accurately experience a games soundtrack is to play the game

Will alter generated themes on the fly, depending on how the game plays (thematic elements)

Could have composer input a precomposed theme, then the program will then alter this as need be

Procedural Content is best when directed by human made content

<https://link-springer-com.libproxy.abertay.ac.uk/book/10.1007%2F978-3-211-75540-2>

https://dl-acm-org.libproxy.abertay.ac.uk/citation.cfm?doid=2798084.2749466

# 2 - Literature Review

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PHILLIPS, W., 2016-last update, Music Game Plan: Tactics for the Video Game Composer (Part One). Available: <https://winifredphillips.wordpress.com/2016/10/04/music-game-plan-tactics-for-the-video-game-composer-part-one/> [Mar 1, 2019].

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