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HATman

Project Work 1

ITM14

Content

[Previously on HATman (allgemeine Zusammenfassung, noch überarbeiten, bla) 3](#_Toc452920356)

[Introduction 4](#_Toc452920357)

[Approach 5](#_Toc452920358)

[Cocos2D 5](#_Toc452920359)

[Arianne 5](#_Toc452920360)

[Conclusion 6](#_Toc452920361)

# Previously on HATman (allgemeine Zusammenfassung, noch überarbeiten, bla)

The purpose of our project was to show if it is possible to use a higher programming language (Python, to be specific) to write a simple multiplayer game with 2D graphic. We planned to re-implement the classic game Pacman. In our version – called HATman – it should be possible to play not only the HATman itself, but also the ghosts.

Our first attempt was to use the framework Cocos2D. We managed to make the game playable, but had problems when it came to implementing the multiplayer mode. We found a lot of frameworks that provided the functionality we needed, but unfortunately they were all written in Python 2 and therefore not 100% compatible with Python 3, which we choose because we want to work with the latest versions.

This is why we discarded our first attempt and started all over. This time we intended to use the framework Arianne.

//Todo: Allgemeines Zeug über Cocos2D schreiben

//Todo: Allgemeines Zeug über Arianne schreiben

//Todo: Sturkturierung

//Todo: Screenshots einfügen

//Todo: Anjas gefailtes Englisch verbessern

# Introduction

# Approach

## Cocos2D

## Arianne

Arianne is an open source, multi-player online framework and engine to develop turn based and real time games. Its design provides a portable, robust and multithreaded server architecture, which is called “Marauroa”. You can use it to easily create your games on. Python is used for writing game rules, but you have to use Java for the server. Additionally, a MySQL backend consisting of powers the server and the server communicates with players using a UDP transport channel. The reference clients are coded using Java and C in order to achieve maximum portability. Moreover, Arianne’s server is totally client agnostic, which makes it very modifiable.

Since 1999, Arianne has been in development and its key concept has always been KISS: Keep it simple, stupid. It has evolved from a tiny application written in pseudo-C++ to a powerful, expandable server framework running on the Java platform and a portable client framework written in bare C to allow total portability of Arianne’s clients.

**Maraurora**

# Conclusion