

The Learning Triangle

Software Architecture Document

Version 1.1

Date	Version	Description	Author
24.11.2016	1.0	First set up	LearningTriangleTeam
12.12.2016	1.1	Added new Class Diagram	LearningTriangleTeam

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Introduction

Purpose

This document provides a comprehensive architectural overview of the system, using a number of different architectural views to depict different aspects of the system. It is intended to capture and convey the significant architectural decisions which have been made on the system.

Scope

This document will describe, how the world around with the artificial creatures behave. The architecture will show, how this world is build up.

Definitions, Acronyms and Abbreviations

Not yet.

References

References			
Title	Report number	date	publishing organization

Overview

This document provides information about the architecture of the software "TheLearningTriangle".

Architectural Representation

Architectural Goals and Constraints

The goal of the architecture is to provide information about how the classes and interfaces of the program is working together.

We want to use the MVC pattern, but we don't use any MVC pattern libraries because for our purposes we need to implement our own ones.
For example, Models will have some logic, other models need to have view implementations. But overall our project will use an MVC pattern.

Use-Case View

1. Simulate View

The simulate view will just provide functionality to train the neuronal network of our triangles. It does not have any kind of view, because it is performance killing.

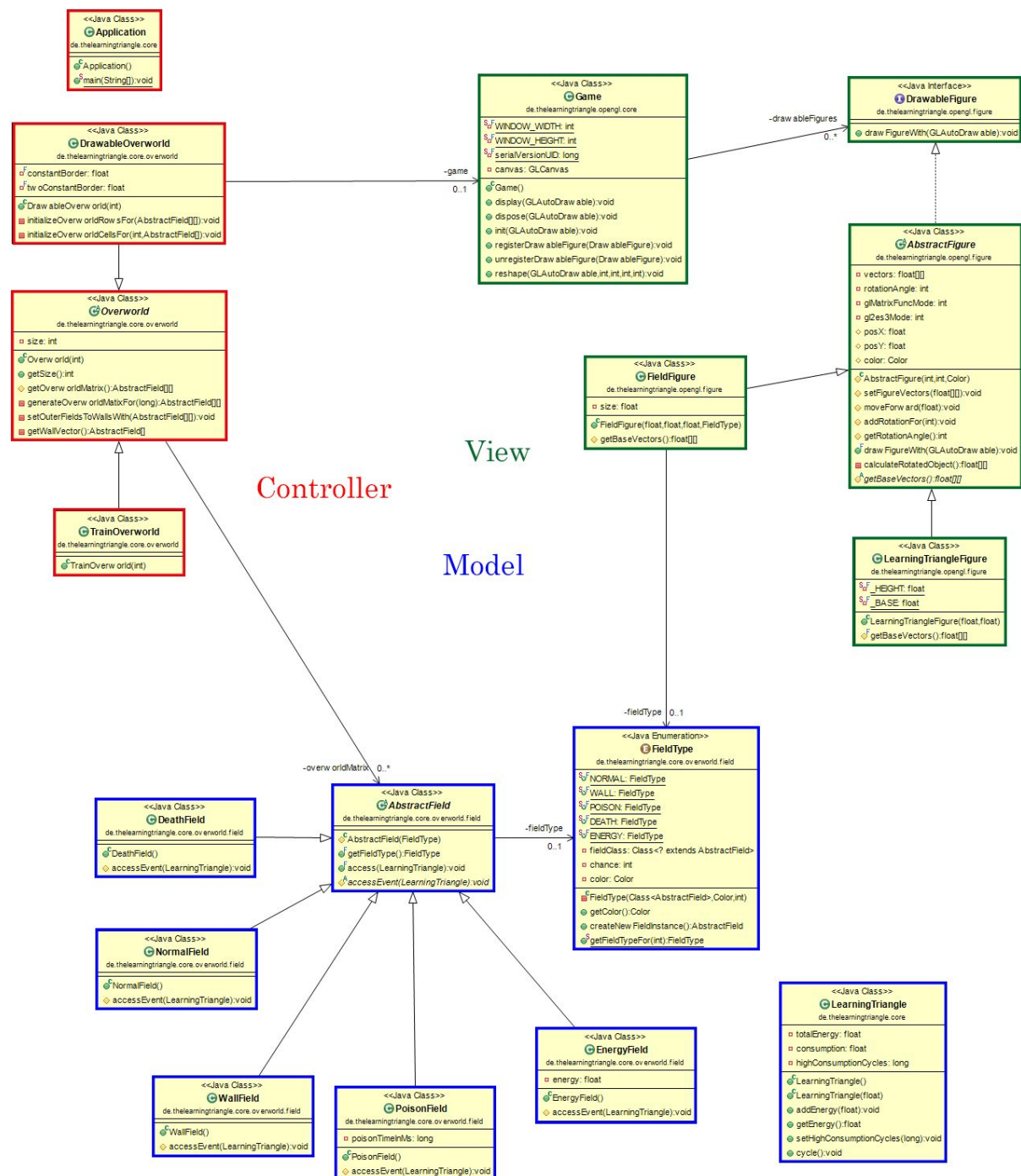
2. Drawable View

The drawable view will provide a nice look on how the triangles are moving around.

Use-Case Realizations

Logical View

Overview



Architecturally Significant Design Packages

Process View

Deployment View

Implementation View

Overview

Layers

Data View

There are saved versions of our triangles brain, but we can't describe how it is ordered or saved. We just know that the files represent the binary-files of the neuronal network in a specific version.

Size and Performance

N.A.

Quality

N.A.