

Object oriented systems engineering  
IMT3102  
Portfolio 1

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## 0.1 Introduction

In this first portfolio we will pick 3 - 4 open-source projects. We are going to analyze each of them from a software engineering point of view. Delve into the differences of infrastructure, communication, openness, financial and social aspects of the open-source development model for these projects. Much of this analysis will be done using chapter 3 of Karl Fogel's Producing Open Source Software[1] as a lense.

The projects we have initially chosen are:

- Media Player Classic[2]
- Ez publish[3]
- OpenDungeons[4]

It was quickly discovered during the research period of this report, that OpenDungeons was inadequate. The reasons for this is that it is rather small, it is in a pre alpha stage, and has only a small pack of contributors. It will stand and be used as an example and used in the comparison, but no more analysis than this will be done. We picked instead to focus on Boost[5], a c++ library, as our third project for this report.

## 0.2 Project introduction

### 0.2.1 Media Player Classic

Media Player Classic (MPC) is a minimalistic media player. They try to keep the old and simple look that the Windows Media Player 6.4 had, which was released in 1999. Although, behind the old look it has most of the features that new media player comes with, including codecs to play new formats. This is also what they say about their player on their front page:

MPC-HC is an extremely light-weight media player for Windows. The player supports all common video and audio file formats available for playback.[2]

As you can see, it stands MPC-HC, and this is a fork of the original MPC. This "HC" version is the one that their adding new features to, along with fixing bugs and libraries. The original MPC was just intended to be the same Classic Player with no more features, and just fixing bugs and updating libraries, but after the leader, Gabest didn't had more time for the project, the project is inactive. Their page seems also very open, and it's easy to see that it's an open source project. You have easy access to their changelog, bug reports, about, and development wiki. From the development wiki site you can easy find what you expect to find.

### 0.2.2 Ez Publish

Ez Publish is a http based content management system. It is built using mainly php and effectively uses a dual licensing scheme.

Their about reads as follows:

eZ Systems is in the business of Web Content Management Solutions and has been since 1999. We maintain a global presence in Europe, Asia and the Americas.

Our large international business partner network is the foundation of our success in the market.

Our team of engineers, consultants and partner managers enables successful implementations for our customers and partners.[6]

The Ez Publish website[3] appears as a business front-end, and as such can be a bit off putting. There is but one direct mention of open-source, under a "What's in it for you" banner at the top.

Until you find the community portal for Ez Publish, it's all like a big storefront. Mentioning open-source and community in between selling itself. Indeed, running a `inurl:"http://ez.publish.no""share.ez.no"` on google returns no results.

Poking around will let you find the open-source community web page[7]

### 0.2.3 OpenDungeons

OpenDungeons is an open source, real time strategy game sharing game elements with the Dungeon Keeper series and Evil Genius. Players build an underground (or overground) dungeon which is inhabited by creatures. Players fight each other for control of territory by indirectly commanding their creatures, directly casting spells in combat, and luring enemies into sinister traps.[8]

### 0.2.4 Boost

The Boost effort was started in 1998 by Bernan G. Dawes. He wrote the initial proposal[9] which in turn has been established as the Boost libraries. The reasoning for the name is best described in the Boost faq[10]:

Boost began with Robert Klarer and I fantasizing about a new library effort over dinner at a C++ committee meeting in Sofia Antipolis, France, in 1998. Robert mentioned that Herb Sutter was working on a spoof proposal for a new language named Booze, which was supposed to be better than Java. Somehow that kicked off the idea of "Boost" as a name. We'd probably had a couple of glasses of good French wine at that point. It was just a working name, but no one ever came up with a replacement. (Beman Dawes)

The Boost libraries is very much alive, it has become a mature codebase. With several of its libraries put into the newer C++ standards (like C++ Technical Report 1 and C++11).

## **0.3 Licenses**

### **0.3.1 Media Player Classic**

MPC-HCs information about their licensing is easily found in the readme file in the source code[11]. They are using the GPLv3[12].

### **0.3.2 Ez Publish**

Ez Publish uses a quinary licensing scheme[13]. Most of them are for special use cases, meaning enterprises use the "eZ Business Use License Agreement" while most others use the GPLv2[14]. Information about their licensing and when to use which is more or less hidden.

### **0.3.3 Boost**

Boost is a bit special because many of the contributors is or have been members of the C++ standards committee, as such it is not a project with a lot of idealism for open-source. Rather the reason for it being open-source is more of a standards issue than anything else. The Boost license[15] was written specifically for The Boost C++ libraries.

## **0.4 Infrastructure**

### **0.4.1 Media Player Classic**

#### **Mailing Lists**

MPC-HC seems not to use mailing lists too much, it's hard to find on their page. It seems like their using irc channels instead. I did in the end find a mailing list, I had to search the page to find it. It's a mailing list for their bug report system, and is used as a notification to users to inform them about tickets in their bug reporting system[16][17]. This conflicts to how Karl Fogel is talking about the mailing lists in the book[1] of his.

#### **Version control**

MPC-HC's version control is easily find on the front page[2] under the news section. It's because they just recently changed it to GitHub. The changed where because it was easier for people to contribute, they say. This message about that they want more contributors goes through the entire page, and is also written much about in the readme[11].

### **Bug tracker**

The bug tracker they are using is the Trac[18] system, and is used to report bugs, feature request, or other kind of requests or changes. It is linked to several places on their page, and they have also made a guide on how to proceed with a ticket as they call a bug report, or any other report.

### **Instant messaging**

They are using irc channels, and seems like the main communication between the developers. Though, they only got two channels, one for user help, and one for development channel.

### **Website**

## **0.4.2 Ez Publish**

### **Mailing Lists**

Ez Publish has mailing lists[19]<sup>1</sup> divided into 10 categories, half of which is bug related. All of the categories are more or less aimed at development/developers.

### **Version control**

Ez Publish uses github[20] as their community/open-source code interface/version control. Here they have lots of public repositories (40 repositories at the 30th of August 2012). They use primarily push requests to receive code from sources other than Ez Publish's own engineers.

### **Bug tracker**

Ez Publish uses a bug tracking system from Waterproof Software[21] called wIT[22]. Hosted through the Ez publish platform.

### **Instant messaging**

### **Coding standards**

### **Website**

All of Ez Publish's websites are hosted on the Ez Publish platform.

### **Money**

Ez Publish straightforwardly presents itself as a company making money off of their enterprise support for the Ez Publish platform.

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<sup>1</sup>At the first counseling Thomas stated that Ez Publish seemingly did not use mailing lists. It has been discovered that this was indeed false.

### **0.4.3 Boost**

#### **Mailing Lists**

Boost offers a range of mailing lists[23] for both users and developers. This is the main information channel for the Boost community, or as the mailing lists overview page[23] puts it:

The mailing lists are the heart of the Boost community.

#### **Version control**

Boost uses Concurrent Versions System or CVS as their version control software. It is hosted on sourceforge and has a small group of developers with write permission.

#### **Bug tracker**

#### **Instant messaging**

#### **Website**

## **0.5 Conclusion/Comparison?**

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