"Cloud Computing in the European schools"

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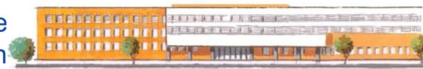
"Moodle - Platform for collaboration and learning management system (LMS)"

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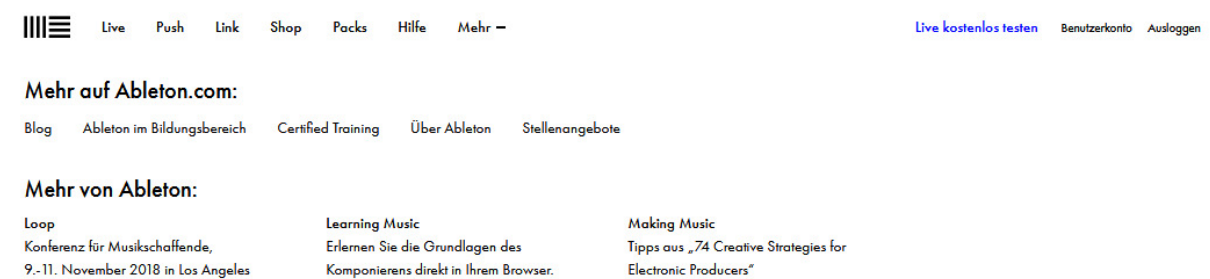
1. Introduction

The Europe hymn is an instrumental version of the main theme "Ode to Joy" (original title: "Freude schöner Götterfunken") from the last movement of Ludwig van Beethoven's Ninth Symphony.

It has a very simple but fascinating melody. The chords are simple too, two chords dominate the tune: we have a tonic keynote and the dominant chords. Further we have a double dominant and a parallel moll, which in fact is quite common.

During the German meeting it turned out, that Marco - one of the spanish students - is producing music, mostly on electronic basis. So we agreed, that Marco produces a modern version of the Europe Hymn.

As Marco is familiar with the music software "Ableton", we decided to buy a version of the software:

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Mehr auf Ableton.com:

Blog   Ableton im Bildungsbereich   Certified Training   Über Ableton   Stellenangebote

Mehr von Ableton:

| Loop | Learning Music | Making Music |
| Konferenz für Musikschaffende, 9.-11. November 2018 in Los Angeles | Erlernen Sie die Grundlagen des Komponierens direkt in Ihrem Browser. | Tipps aus „74 Creative Strategies for Electronic Producers" |

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https://www.ableton.com/de/trial/

After studying the product information, we decided to buy the basic version; it only costs 79,- Euro, it is possible to download and pay immediately, so production on a local PC is possible.

2. Music software in the cloud

Producing music with cloud software is unefficient and connected with large latency. In comparison to video editing software it is very important to keep different sound tracks absolutely in time. Even the smallest latency between the tracks makes it impossible to produce high quality songs.

Beside, the stream itself has to be highly continuous. Even the smallest gap leads to unusable results. Sound production is one of the applications with the highest demand on technical devices. It will take a long time, until these requirements can be achieved in cloud environments.

3. Producing the song

Marco decided to search the internet to find MIDI-notes on the internet. Then he importet them into Ableton and tried to create some additional tunes. Unfortunately he lost his data, so the song is lost.