INTRODUCTION  
  
I still haven’t found a good music player which is able to find suitable music for me from my whole music library, The one i got the closest to it is  [Amarok](http://amarok.kde.org/), but it is not perfect one.  
  
sometimes problem is that we do not know what to listen and the software should be able to find the music which has more probability to be liked by its user.

In Amarok, when you jump to the next song it checks how much of the song you listened and assigns a score based on that. For songs that you listen completely you get a high score and for songs you listen only for a couple of seconds a low score.   
  
Amarok has a special playing list, or used to have in the 1.4 version, which is called “dynamic” and plays those songs with the highest score. That sounds excellent, but it’s not enough. This music player I’d like to have would not compute how much I like a song, like Amarok, but how probable it is that  I’ll like it when it plays that song.

basis of implementation

Let’s call this player Smup,  **S**mart **Mu**sic **P**layer, and let’s see how it could provide such a magic feat as playing songs that you want to listen (even if you don’t know you want to listen to them).

Smup would have a scoring for the songs but instead of being a linear score it’ll be multidimensional. Let’s start with two simple dimensions and the rest will be clear: percent of playing time and time of the day. Song A you play 100% and song B 50%. That means that you like song A better than B. That is what Amarok does. Smup would instead record:

* Song A in the morning: 100%
* Song B in the morning: 50%
* Song A in the evening: 50%
* Song B in the evening: 100%

You like A as much as B, but you are more likely to want to listen to A in the morning, and B in the evening. Of course adding the time of the day will probably not improve the equation by much. The idea would be to add as many dimensions as possible. Some dimensions may be irrelevant and they should cancel themselves out, like in this case:

* Song A in the morning: 100%
* Song B in the morning: 50%
* Song A in the evening: 100%
* Song B in the evening: 50%

that case, you like A better than B, in the evening and in the morning. The time of the day is irrelevant. Maybe it’s only irrelevant for some songs but not for other:

* Chahun me Ya Na (Ashiqui 2) – better in evening
* Payphone (Maroon V). – better in morning

I believe this program should not work with special cases but have some very sofisticated machine learning system where we input all these signals and does the right thing. And as more signals become available, they are added and analyzed as well. I would like to have that music program! Because honestly, really, I’m not sure what music I want to listen to. I want my computer to figure it out for me.