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**Why do many programmers also do music**

Coders are in high demand nowadays. Code.org forecasts that by 2020 there will be a shortage of 1 million developers. Reports on employment trends say that software developers are the most difficult talent to recruit finishing the proper studies doesn’t automatically mate you a good programmer. How to recognize the real talents among the rest then? A recent Stack Overflow study of 56 K software developers found that 69 % of the class are at least somewhere self-taught.

*As it turns out, musicality seems to be a powerful predictor of coding success. Why?*

**Musicians have an innate need to perfect their parts**

If you have been ever mastering a musical instrument you know what it’s about. Spending hours and hours trying to catch how the guitarist plays the solo so fast or how does his scream sound that brutal. It requires a lot of practice and there’s no cap of being perfect, there’s always a space to improve your skills. Same goes for programming.

**Both coding and making music is all about practice and following the patterns**

Programming itself seems to be a mysterious art which is available just for chosen ones but in reality it’s all about following the guides, getting familiar with documentation and practicing a lot. When it comes to composing music it requires also required following the scales, chords and intervals. Of course both require creativity but understanding the patterns and being patient at that is essential.

**To construct a program you should be able to visualize it before**

Even before starting to code you have to think what it is going to look like in the future. Visualize its image in your mind even before you’ve even started creating it. Same goes for composing, musicians tend to look forward constructing the raw scheme of the song even before approaching to the instrument.

The reward for all the effort put into work for both software engineers and musicians is often a personal sense of success more than a public one. After finally mastering some tricky software technique or when you finally get to play that quick sweep guitar solo the people around you won't just stand and applaud. Some that more into it might notice and respect you but the most important thing is the assurance that you're the one that's awesome. It all begins with just a single note or a single line of code but after many hours of hard work and focus you can really be proud of yourself.