**Let’s Begin**

When you “batch” process a thousand images in Photoshop or sum numbers in Excel, you’re programming, at least a little. When you use computers too much—which is to say a typical amount—they start to change you. I’ve had Photoshop dreams, Visio dreams, spreadsheet dreams, and Web browser dreams. The dreamscape becomes fluid and can be sorted and restructured. I’ve had programming dreams where I move text around the screen.

Making them seem infinite takes a great deal of work from a lot of programmers and a lot of marketers.

**2.1How Do You Type an “A”?**

Keyboard.

***Users are sitting in front of the keyboard to input data while programmers are those who sitting behind the scene to design how to achieve things.***

Coders are people who are willing to work backward to that key press. It takes a certain temperament to page through standards documents, manuals, and documentation and read things like “data fields are transmitted least significant bit first” in the interest of understanding why, when you expected “ü,” you keep getting “�.”

**2.3How Does Code Become Software?**

But Excel spreadsheets are tricky, because they can hide all kinds of things under their numbers. This opacity causes risks. One study by a researcher at the University of Hawaii found that 88 percent of spreadsheets [contain errors](http://panko.shidler.hawaii.edu/SSR/Mypapers/whatknow.htm).

Coding is a broad human activity, like sport, or writing. When software developers think of coding, most of them are thinking about lines of code in files.

A compiler is software that takes the symbols you typed into a file and transforms them into lower-level instructions.

**2.4What Is an Algorithm?**

***Algorithm is already there that the phrase that Fb has its own algorithm doesn’t make sense.***

A programming language has at least two jobs, then. It needs to wrap up lots of algorithms so they can be reused. Then you don’t need to go looking for a square-root algorithm (or a genius programmer) every time you need a square root. And it has to make it easy for programmers to wrap up new algorithms and routines into functions for reuse.

***2.6What’s With All These Conferences, Anyway?***

***3. Why Are Programmers So Intense About Languages?***

Why do people construct and then give away free languages? Well, the creation of a good computer language is the work of an apex programmer. To have produced a successful language is acknowledged as a monumental effort, akin to publishing a multivolume history of a war, or fighting in one. The reward is glory.

***3.1The Beauty of the Standard Library***

***Since everything is available on web, it becomes more crucial how to find the exact information that I’m looking for. Reading thoroughly everything is going to be a huge waste.***

 A language is software for making software.

The standard library is a set of premade software that you can reuse and reapply.

It requires you to have a map in your head, to know where the good libraries, the best documentation, and the most helpful message boards are located. If you don’t know where those things are, you will spend all of your time searching, instead of building cool new things.

***Fun Fact***

C is called C because it came after another language. That language was called B.

This sentence sounds quite fun ‘C is great language but dangerous when you are sloppy’.

When you compile C, it doesn’t simply become a bunch of machine language in one go; there are many steps to making it really, ridiculously fast.

These are called optimizations, and they are to programming what loopholes are to taxes.

***3.4The Corporate Object Revolution***

Object-oriented programming is, at its essence, a filing system for code. As anyone who’s ever shared a networked folder—or organized a physical filing cabinet—knows, without a good shared filing system your office will implode.

Where C tried to make it easier to do computer things, Smalltalk tried to make it easier to do human things.

***Meaning, Class helps human not computer to process things.***

***3.5Look How Big and Weird Things Get With Just Python***

***4 Why Are Coders Angry?***

***It sounds like that coders for each language are like evangelists of the language.***

***Any judgement on a language could be very provocative and fun.***

***4.3We Still Need to Choose …***

***4.4Why Are There So Many Languages?***

***Like Holy C-Temple OS***

***5 The Time You Attended the E-mail Address Validation Meeting***

***5.1What Is the Relationship Between Code and Data?***

***Java is still relevant that it’s running on the platform of ‘virtual machine’.***

***For the big companies or inter company works, java is the go-to choice. But it feels very annoying too.***

***5.4Briefly on the Huge Subject of Microsoft***

***5.8What’s the Absolute Minimum I Must Know About PHP?***

***PHP is a language taking up a vast majority of website (not js-like part, I guess it’s more about back-end part).***

***It is losing its status-quo and getting replaced by javascript. But many used it before.***

***6 How Are Apps Made?***

***Xcode is an application for making ios apps with some handy features and graphics but I think it’s not for dv designers in general cause we are not making programs. I have been wondering about what Xcode is and was considering to switch to Xcode if it is really good.***

***7 The Triumph of Middle Management***