**Chapter 1**

**Part 1**

Programmers anticipate Needs

Computers aren’t very smart on their own, we are the one who increase them with knowledge. It`s easier to learn their language than teach them our language.

User VS Programmers

The first thing to do is letting the view of user for users, programmers has to have another point of view, a bigger one.

Programmers sometimes write tools for lots of users and sometimes little “helpers” for themselves to automate a task or a job.

Why be a programmer?

* To get some task done, being the user and programmer;
* To produce something for others to use, in a programmin job.

Programming is a sequence of stored instructions, something figured out and transformed in code to save someone else time and energy of figuring it out. Making this workflow a Piece of Creative Art (when done with a pinch of UX).

**Part 2**

Hardware Architecture

Diagrama

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The CPU asks the Main Memory “what you want me to do next?”, the MM gets inside de SM data that answer CPD`s question.

The machine language is difficult to learn, python will give us the chance to build programs and the compiler translate it to Machine language.

**Part 3**

Python as a Language

Syntax Errors are more common than kids learning to talk. So we need to learn and as kids do the best way to do it is failing.

**Part 4**

Elements of Python

Reserved Words are expressions that you can`t use out of context, is a pre-defined vocabulary that has a special meaning. You`re not allowed to use these words for any other purpose than the purpose that Python wants, been a part of a “contract”.

Linha do tempo

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Python Scripts

Criating the Scripts make easier to build the logic behind de problem. So we`re giving Python a script!

So we have to add the “.py” suffix at the end of the file.

- INTERACTIVE PYTHON – You type directly to Python one line at a time, and it responds

- SCRIPT – You enter a sequence of statements (lines) into a file using a text editor and tell Python to execute the statements in the file.

Intro to conditions and loops patterns

Uma imagem contendo Diagrama

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