

# BASIC PROGRAMMING IN C

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INTRODUCTION



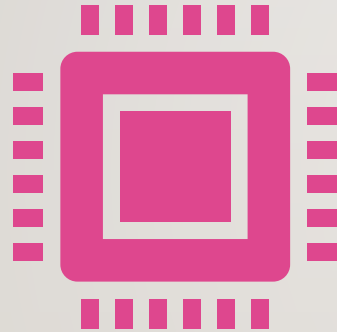
# WHO I AM?

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- Alessio Mungelli. I was born in the 1998 and I am a Computer Science student at the University of Turin.
- My main research area is software development.
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- Facebook: Alessio Mungelli

# WHAT WE ARE GOING TO DO?

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During these lessons we are going to study the basic concepts of programming.



Lessons will be interactive. Don't think that you will sit and just listen ;)

# WHAT DO YOU NEED TO FOLLOW MY LESSONS?

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- A text editor, like:
  - Atom (<https://atom.io>),
  - Notepad++ (<https://notepad-plus-plus.org/downloads/>)
- Paper
- Pens or pencils
- MinGW Compiler (<http://www.mingw.org>)

# HOW DO I SHARE WHAT I SHOW DURING THE LESSONS AND OTHER USEFUL MATERIALS?

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- GitHub: [https://github.com/aleale98/Basic\\_C\\_Course](https://github.com/aleale98/Basic_C_Course)
- E-mail: if you do not use GitHub or if you have particular needs, I will share everything using e-mail.
- We can talk about other platforms you like.



QUESTION: WHAT DO YOU EXPECT TO LEARN  
DURING THIS COURSE?

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# LET'S TALK ABOUT COMPUTERS

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- Who knows what a computer is?

# WHAT IS A COMPUTER?

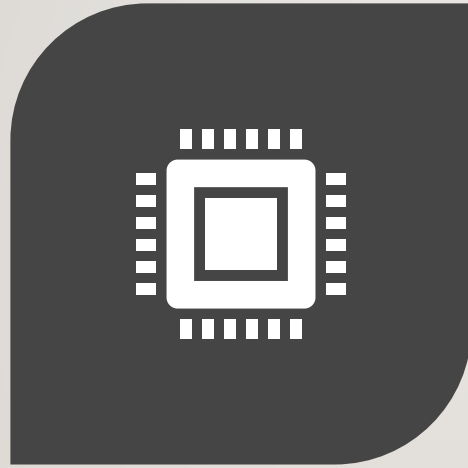
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- A computer is a machine that basically performs calculations.



# HARDWARE VS SOFTWARE

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HARDWARE: PHYSICAL COMPONENTS  
LIKE THE CPU, RAM, MOTHERBOARD...



SOFTWARE: APPLICATIONS THAT ARE  
NOT TANGIBLE, THAT WE CAN'T  
TOUCH (WORD, GOOGLE CHROME...)

# WHAT IS A FILE?

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document  
place to save data

# WHAT IS A FILE?

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- A file is a logical grouping of data

courses → 

name
id

# WHAT IS A DIRECTORY?

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# WHAT IS A DIRECTORY?

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- A directory is a logical grouping of files



# WHAT IS THE FILE SYSTEM?

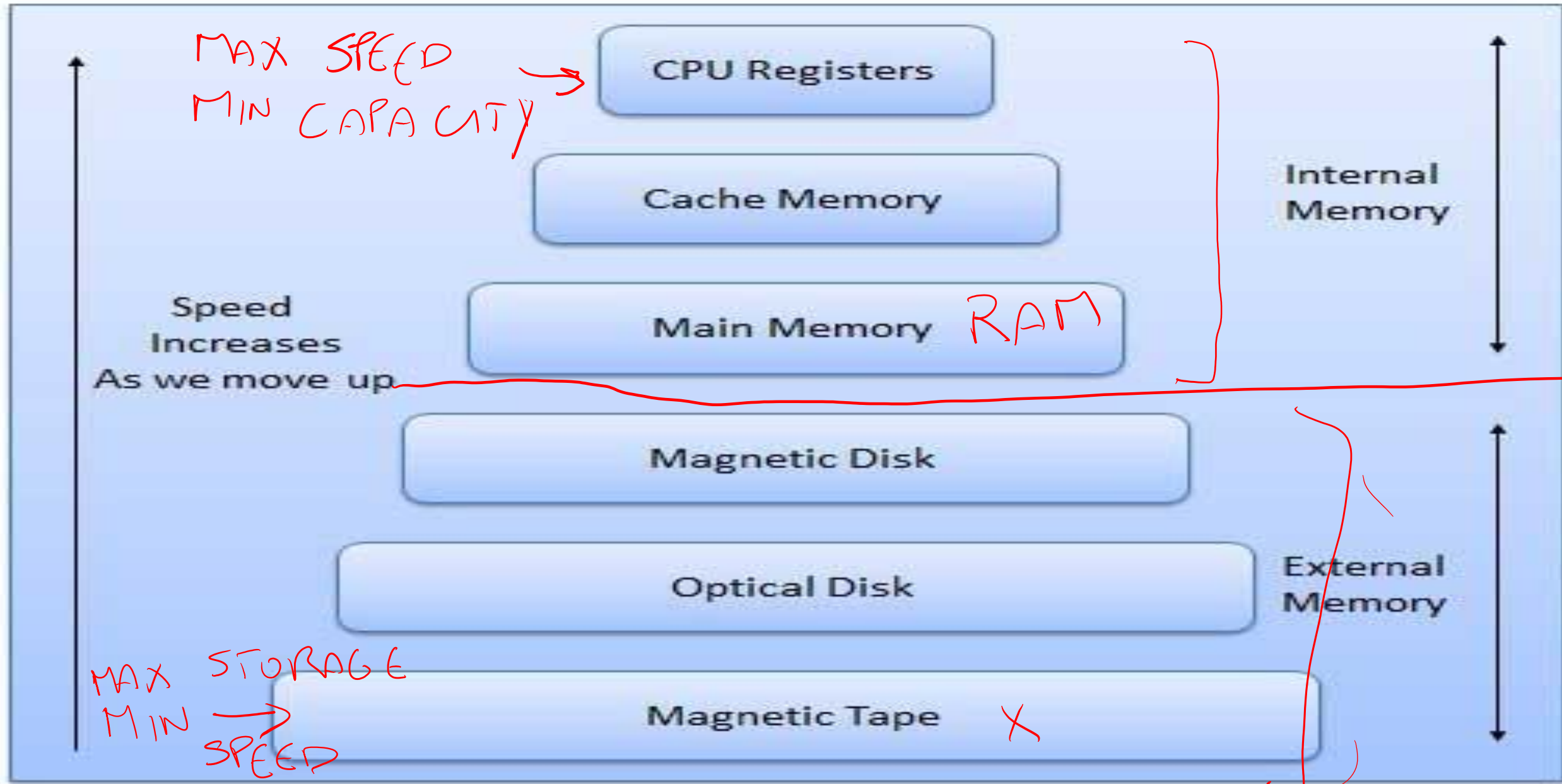
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# WHAT IS THE FILE SYSTEM?

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- The file system is the organization of files and directories into the calculator



# BATCH VS INTERACTIVE

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**Batch system:**  
System that is not  
interactive.

**Interactive system:**  
system that requires  
communication with  
the user

# OTHER WORDS

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- **IDE:** Integrated Development System. It is a collection of softwares merged into one used by programmers to code with only one environment. It is possible to code without an IDE but some tasks become more difficult;
- **Process:** Execution of a program
- **Operating system:** collection of softwares that manage the hardware components of a computer



# NEXT LESSON

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- Next lesson will be tomorrow, after the database lesson of Mr. Hangalo.



QUESTIONS?



OBRIGADO